

INTERFACE DESIGN: PERSONAL PREFERENCE ANALYSIS

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ABSTRACT

INTERFACE DESIGN: PERSONAL PREFERENCE ANALYSIS

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This thesis analyzes the relationship between users' characteristics and users' interface preferences. An online survey is developed for this study. This survey composed of two types of questions: (1) users' personal information such as age, gender, country, cognitive structure, and also computer experience and (2) user interface elements. More than 2,500 participants from 120 different countries throughout the world completed our survey. Results were analyzed using cross tables. Our findings show that there is a relationship between users' characteristics and users' interface preferences. In the presence of this relationship, an artificial neural network model is developed for the estimation of the interface preferences based on the user characteristics.

Keywords: User Interfaces, Interface Design, User Preferences, Artificial Intelligence, Artificial Neural Networks

ÖZ

ARAYÜZ TASARIMI: KİŞİSEL TERCİH ANALİZİ

Aydınlı, Aykut

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Bu çalışma, kullanıcı karakteristiği ile kullanıcının arayüz tercihleri arasındaki ilişkiyi araştırmaktadır. Bu çalışma için, çevrimiçi bir anket uygulaması geliştirilmiştir. Bu anket iki tür sorudan oluşmaktadır: (1) yaş, cinsiyet, ülke, algı yapısı ve bilgisayar bilgisi gibi kişisel özellikler ile ilgili sorular ve (2) arayüz tercihleri ile ilgili sorular. Dünyanın 120 farklı ülkesinden 2,500'den fazla katılımcı anketimize katılmıştır. Sonuçlar çapraz tablo analizleri yardımıyla değerlendirilmiştir. Yapılan analizler sonucunda kullanıcıların kişisel özellikleri ile kullanıcıların kullanmayı tercih ettikleri arayüzler arasında bir ilişkinin var olduğu gözlenmiştir. Bu ilişki ve anket sonuçları yardımıyla bir yapay sinir ağı modeli geliştirilmiştir. Bu model yardımıyla kullanıcı karakteristiklerine göre arayüz tercihlerinin tahmin edilmesi sağlanmıştır.

Anahtar Kelimeler: Kullanıcı Arayüzleri, Arayüz Tasarımı, Kullanıcı Tercihleri, Yapay Zeka, Yapay Sinir Ağları

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CHAPTER 1

INTRODUCTION

Recent developments in the technology and the use of the Internet worldwide emerges the importance of user interfaces (Park & Lim, 1999; Calvary, Coutaz, Thevenin, Limbourg, Bouillon & Vanderdonckt, 2003; Rau, Choong & Salvendy, 2004; Lam & Swayne, 2001; Kim, 2001). New technologies are developing for best conformance of the user needs. Thus, user interfaces are becoming the major discriminator for the products (Park & Lim, 1999).

McDaniel (1994) defines user interface with the following words:

“Hardware, software (including menus, screen design, keyboard commands, and command language), or both that allows a user to interact with and perform operations on a system, program, or device” (p.724)

The user interface is a central element of any software application, one that often determines how well end users accept, learn, and efficiently work with entire systems (Puerta, 1998). Whatever the underlying technology is, users can contact the system through the user interface (Chalmers, 2003; Agah & Tanie, 2000).

Furthermore, Internet provides information to people all around the world. These people from different cultures are different in their perceptions, cognition, thinking styles, and values (Rau et al., 2004; Kim, 2001; Zajicek,

2004; Chalmers, 2000). In addition, Internet has been becoming more and more user-centric, after the construction of the concept Web 2.0. Now, Internet user is not only a visitor. Users have the power of gathering or providing information by their own way (O'Reilly, 2005). Thus, it is important to understand different cultural traits, thinking and cognition styles in designing computer interfaces (Rau et al., 2004).

1.1. Origin of the problem

This important mission undertaken by the user interfaces affects the design process of the software development life cycle (Gavrilova & Vasilyeva, 2003). In fact, the source code to implement user interface takes up to 40-90% of the source code for the entire software system (Chalmers, 2003). This phenomenon inspired several researchers. Numerous studies have been made related with the software interface design, development and evaluation (Paradowski, 2004; Reed, Holdaway, Isensee, Buie, Fox, Williams & Lund, 1999; Kumar, Smith & Bannerjee, 2004; Simpson, 1999; Goldberg & Kotval, 1999; Carroll, 1997; Kim, 2001; Agah & Tanie, 2000; Alfaro & Stoelinga, 2004). Despite much research in this field, there exists no globally agreed definition of what is good or evil in user interface design (Lif, 1999; Reed et al., 1999; Kumar et al., 2004; Morris & Dillon, 1996; Bailey, 1993; Henninger, 2000; Moussa, Kolski & Riahi, 2000; Souza, 2001; Hartson, 1998). Hence, things are not getting quite easy from the user interface designer and software developer point of view (Thompson, 2007; Alty, Knott, Anderson & Smyth, 2000).

This study, seeks the relationship between user characteristics and user's interface preferences. This relation gives a chance to define, (1) which user characteristics form which user's interface preferences and (2) how user characteristics affect user's interface preferences. The hypothesis of this study is that certain user characteristics and interface preferences over these

characteristics are related and once the strong relationships can be defined, it will be possible to design interfaces that can modify itself according to the user preferences which might be facilitated by an artificial intelligence application.

1.2. Organization

The remaining sections are arranged as follows. Chapter 2 makes the brief description of the problem and a definition of human-computer interaction. Chapter 3 supplies information about similar problems and studies. Chapter 4 includes the details of the survey constructed for further analysis. In the chapter 5, survey results are discussed. Chapter 6 includes the neural network model – artificial intelligence application- for estimation of the interface preferences based on user characteristics. Finally, chapter 7 includes concluding remarks and directions for future studies.

CHAPTER 2

DESCRIPTION OF THE PROBLEM

For better understanding of the problem, it is essential to examine human and computer interaction. Carroll (1997) defines human-computer interaction, HCI, as the following:

“HCI is a science of design. It seeks to understand and support human beings interacting with and through technology”
(p.502).

2.1. Human / user

Dix, Finlay, Abowd and Beale (1998), define the human as the main character of any interactive systems. In human-computer interaction, human, the user is the element that computer assists by any means. Human capacity is limited and decisive. **Therefore, human necessities have greater priority.**

2.2. Computer

Dix et al. (1998), define the computer, second element of the interaction, with the following words:

“The participant in the interaction that runs a program”
(p.54).

Dix et al.'s (1998) general definition can be applied to numerous devices (e.g., a light switch is a computer running the following program: “*turn light on when pressed down, turn light off when pressed up*”). Considering this point of view, definition of the computer includes any electronic devices assisting humanity.

2.3. Interaction

The contact between the human and the computer called “*interaction*” (Dix et al., 1998). This contact brings the concept of human-computer interfaces to life. According to Chalmers (2003), human-computer interface is the point of contact between the computer and the computer user. This point of contact between the computer and the user, the interface, directly affects the performance of the interaction (Puerta, 1998). The term “*usability*” and “*usable user interfaces*” stand for the performance of this interaction. Paradowski (2004) defines the “*usability*” as the following:

“...capability (in human functional terms) to be used easily and effectively by the specified range of users, given specified training and user support, to fulfill the specified range of tasks, within the specified range of environmental scenarios” (p.103).

Unfortunately, designing “*usable user interfaces*” is cumbersome and challenging process (Chalmers, 2003). User interface design is a creative process and can not be completely described with a method (Lif, 1999). People from various backgrounds, can have different approach to the user interface design. Because of having different viewpoints, good or evil for the user interface design can change one person to another. This difference makes it

difficult to construct commonly agreed quality characteristics and specifications for the user interfaces (Bailey, 1993).

The characteristics of the interface design can not be defined in objective terms or criteria, therefore the results of the suitability-rating methods for the interface design could be different. This study investigates the relation between users' characteristics and users' interface preferences. It is believed that users' characteristics can give some clues about users' interface preferences. This relation can make it possible to define, design, develop and generate usable user interfaces by the help of the personal traits of the user. At the same time, it can shed light on further studies for measurable user interface usability.

CHAPTER 3

SIMILAR PROBLEMS

Both the user and the software could have different mental models. The similarity between the user mental model and the software mental model affects success of the user interface. Mental models can show similarities among users with similar personal traits. Therefore, it can be possible to construct commonly suitable software mental model by observing the behaviors of a small group of users (Spolsky, 2001).

According to Wang (2000), numerous studies employ user-centric approaches. This approaches include, sense-making, cognitive and behavioral structures. The idea behind these studies is to investigate the complex nature of user's information retrieval. Users, depart from each other with diverse subject backgrounds and different levels of information and computer. Wang (2000) investigates the users' diversities affecting interface interaction. Twenty-four graduate students participated in this study.

It is possible to group users into subcategories according to their demographic information. Thus, an interface designer can determine the user interface features for each demographic subgroup (Kumar et al., 2004). Kumar et al. (2004), investigate the relation between users' personal traits and user interface features. This study analyzes the results of a questionnaire applied to twenty-three participants. As a result, users' demographic information such as age, gender and computer knowledge has an impact on user interface interaction.

Chalmers (2003), questions the definition of “*quality user interface*” whether this definition means the same thing among users. Chalmers (2003), emphasizes that, “*usable*” technology should be accessible to everyone. The situation of inaccessibility and lack of usability causes “*the digital divide*”.

Zajicek (2004) focuses on the importance of designing user interfaces for older people. Zajicek (2004) claims that current software design typically produces an artifact which is static and which has no, or very limited, means of adapting to the changing needs of users as their abilities change.

User interfaces automatically adapting to each user has a better usability than static interfaces (Romitti, Santoni & François 1997; Cha, Kim, Kim, Park & Cho 2005).

According to Gavrilova and Vasilyeva (2003), users differ by their personal traits such as age, gender and cognitive style. The study of Gavrilova and Vasilyeva (2003), analyzes the correlation between user model and user interface model. Including of psychological, physiological and cognitive features into the user model should improve human-computer interaction process quality.

Kim (2001) claims that in response to the global challenge, there has been a paradigm shift from “*system-centered*” to “*user-centered*” approaches in interface design studies. Additionally, users’ personal characteristics are the most important element for the user interface usability. Forty-eight participants took part in this study. This study shows that computer knowledge and cognitive styles affect the success of interface usage.

People from different disciplines have different approaches to interface design (Bailey, 1993). Bailey (1993) compares the success of user interfaces designed

by people from a variety of backgrounds and viewpoints. Ninety-six participants took part in this study. All the participants have limited or no computer experience. Some of the participants have computer-phobia. This study shows that user interfaces designed by ergonomists is more usable than user interfaces designed by the computer programmer counterparts.

As a result, these studies agree that users' characteristics, cognitive styles and computer experience have an impact on the user interface interaction. However, these studies analyze the results of limited number of participants. At the same time, these participants –graduate students, older people and people from a specific geographical region- represent a specific user group. This situation is the starting point of our study, which is discussed in the succeeding chapters.

CHAPTER 4

DEVELOPMENT OF THE SURVEY

This study proposes a survey to investigate the relation between user characteristics and users' interface preferences. This survey composed of two types of questions: (1) users' personal information such as age, gender, country, cognitive structures, and also computer experience and (2) user interface elements. A website has been developed to apply this survey online. The idea behind this approach is to reach people from different geographical regions, cultural traits, ages and genders.

Succeeding sections, gives detailed information about the survey questions both related with user characteristics and user interface elements:

4.1. User characteristics

According to Gavrilova and Vasilyeva (2003), user model composed of four factors:

- Demographic factors
- Psychological factors
- Physiological factors
- Professional factors

Demographic factors determine the information related with geographical region, language-spoken, age and gender. Psychological factors determine the information retrieval, processing and usage. Cognitive structures and mental

models form physiological factors. Physiological factors determine the senses such as sight, hearing etc., affecting user interface interaction. Professional factors determine the occupational profession, computer experience and educational background (Gavrilova & Vasilyeva, 2003).

Additionally, Wang (2000), Paradowski (2004), Kumar et al. (2004), Lu, Yu and Lu (2001) and Kim (2001) claim that users' cognitive styles affect user interface perception. Chalmers (2003) notes women and men respond computers differently. McGrenere, Baecker and Booth (2002) evaluate users according to their age, gender, interest to new features, Microsoft Office experience and Microsoft Word usage (yrs.).

In the essence of current studies, questions related with the user characteristics composed as follows:

4.1.1. Your watch (Question #1)

First question is about users' wristwatch. According to Sperry (1969), right and left hemispheres of the brain are responsible for different abilities. Left hemisphere is responsible for rationality and intellection while right hemisphere of the brain is responsible for creativity and spatial abilities. Benson and Standing (2000), summarize the basic brain functions as the following: (1) left hemisphere's basic function is sequential analysis (e.g. systematic, logical interpretation of information.); (2) right hemisphere's basic function is holistic functioning (e.g. processing and providing "holistic" picture of one's environment.). Digital watch gives more information while analog watch is more holistic. This distinction can have an impact on users' interface preferences. In this question, users can select one of the following options: (1) "*Digital Watch*", (2) "*Analog Watch*" and (3) "*No Watch*".



Figure 4.1: In this question, users can select one of the following options: (1) “*Digital Watch*”, (2) “*Analog Watch*” and (3) “*No Watch*”.

4.1.2. Usage style (Question #2)

Computer knowledge and experience of the users play an important role evaluating user interfaces (Gulliksen, 1996; Spolsky, 2001). In this question, participants questioned about their computer usage. Users can select one or more of the following options: (1) “*Designer*”, (2) “*Programmer*”, (3) “*Data Operator*”, (4) “*Knowledge Worker*” and (5) “*Entertainer*”.



Figure 4.2: In this question, users can select one or more of the following options: (1) “*Designer*”, (2) “*Programmer*”, (3) “*Data Operator*”, (4) “*Knowledge Worker*” and (5) “*Entertainer*”.

Bailey (1993) notes people from a variety of backgrounds and disciplines can have different viewpoints for the user interface perception. Johnson, Dropkin, Hewes, and Rempel (2003) note Word processors, spreadsheets, and graphics programs may require computer

mouse use for up to two-thirds of the time. It is believed that different uses of computer can affect users' interface preferences.

4.1.3. Remember faces (Question #6)

Benson and Standing (2000) note that people who use their left-brain more effectively can have different ability for remembering names and faces than people who use their right brain more effectively. Similarly, this survey includes three questions about user's memory structure. First of these questions is about remembering faces. In this question, users can select one of the following options: (1) "Very Well", (2) "Sometimes" and (3) "Not Exactly".

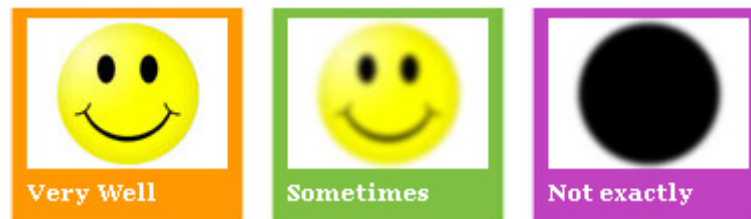


Figure 4.3: In this question, users can select one of the following options: (1) "Very Well", (2) "Sometimes" and (3) "Not Exactly".

4.1.4. Remember names (Question #9)

Second question related with the users' memory structure is about remembering names. In this question, users can select one of the following options: (1) "Very Well", (2) "Sometimes" and (3) "Not Exactly".



Figure 4.4: In this question, users can select one of the following options: (1) “*Very Well*”, (2) “*Sometimes*” and (3) “*Not Exactly*”.

4.1.5. Remember numbers (Question #12)

Final question related with the users’ memory structure is about remembering numbers. In this question, users can select one of the following options: (1) “*Very Well*”, (2) “*Sometimes*” and (3) “*Not Exactly*”.



Figure 4.5: In this question, users can select one of the following options: (1) “*Very Well*”, (2) “*Sometimes*” and (3) “*Not Exactly*”.

4.1.6. Your mobile phone (Question #19)

People who use their left-brain more effective –left brained- are systematic. On the other hand, people who use their right brain more effective –right brained- have visual and spatial modalities (Benson and

Standing, 2000). This question includes three types of mobile phones. First of these options is a mobile phone with high functionality. Second option is a mobile phone with high visual appeal. Finally, last option is a mobile phone with limited functionality and limited visual appeal but complete at all. In this question, users can select one of the following options: (1) “*High Functionality*”, (2) “*High Visual Appeal*” and (3) “*Complete*”.

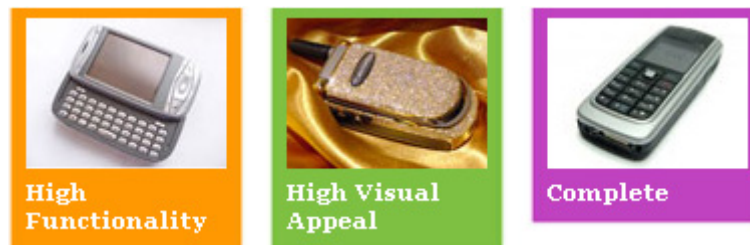


Figure 4.6: In this question, users can select one of the following options: (1) “*High Functionality*”, (2) “*High Visual Appeal*” and (3) “*Complete*”.

4.1.7. Your desktop (Question #21)

According to Benson and Standing (2000) organization of the things can be perceived differently among left and right brained people. This question is related to the neatness of users’ desk. In this question, users can select one of the following options: (1) “*Organized*” and (2) “*Untidy*”.

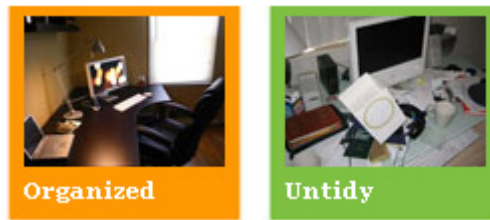


Figure 4.7: In this question, users can select one of the following options: (1) “*Organized*” and (2) “*Untidy*”.

4.1.8. Transmission (Question #23)

Manual or automatic transmission is a question related to users’ real life. This question is original to this study. Additionally Spolsky (2001) notes that users’ habits affect their user interface perception. In fact, manual and automatic transmission is a user preference and can affect user interface perception. In this question, users can select one of the following options: (1) “*Manual*” and (2) “*Automatic*”.



Figure 4.8: In this question, users can select one of the following options: (1) “*Manual*” and (2) “*Automatic*”.

4.1.9. Form vs. function (Question #25)

This question investigates the users' response to form and function. Both form and function has an importance for constructing usable interfaces. In addition, users' perception about form and function can have an impact on users' interface preferences. According to Sperry (1969), left hemisphere of the brain is responsible for "*Function*" while right hemisphere of the brain is responsible for "*Form*". In this question, users can select one of the following options: (1) "*Function*" and (2) "*Form*".



Figure 4.9: In this question, users can select one of the following options: (1) "*Function*" and (2) "*Form*".

4.1.10. New features (Question #27)

McGrenere et al. (2002) takes into account users' interest on new features. With similar approach, it is believed that users' interest on new features can affect users' interface preferences. In this question, users can select one of the following options: (1) "*I am shy*", (2) "*I am confident*" and (3) "*I am interested*".



Figure 4.10: In this question, users can select one of the following options: (1) “*I am shy*”, (2) “*I am confident*” and (3) “*I am interested*”.

4.1.11. Revolving clockwise or counterclockwise (Question #28)

Denver Channel (2007), proposes a practical way to Sperry’s (1969) concept. According to *Denver Channel* (2007), people who effectively use their right brain –right brained- could have different personal traits than those who effectively use their left-brain. The right brain is associated with artistic ability like singing, painting, writing poetry etc. Left-brain dominated people tend to be more logical and analytical in their thinking and usually excel at mathematics and word skills.

For this question, the figure 4.11 is shown:



Figure 4.11: Question #28: Revolving clockwise or counter clockwise

People who see this figure revolving clockwise tend to be more right-brained. On the contrary, people who see this figure revolving counter clockwise are likely to be more left-brained (*Denver Channel*, 2007).

In this question, users can select one of the following options: (1) “*Clockwise*” and (2) “*Counter Clockwise*”. This question can give some clues about users’ psychological factors.



Figure 4.12: In this question, users can select one of the following options: (1) “*Clockwise*” and (2) “*Counter Clockwise*”.

4.1.12. Birth date (Question #29)

There are three questions directly related to users’ demographic factors presented in Gavrilova and Vasilyeva’s (2003) study. First of these questions is birth date. In this question, users must specify their date of birth.

4.1.13. Gender (Question #30)

Second demographic information is gender. Users must specify their gender in this question.

4.1.14. Country (Question #31)

Final question related with demographic factors is geographical region. In this question, users must specify their country.

4.2. Interface preferences

Interface preferences, are the alternative uses of interface elements, which form the entire user interface. Additionally these preferences can be perceived as design decisions that interface designers can face. After determining the

questions related with users' characteristics, the questions related with user interface preferences are composed. By employing similar approach like user characteristics, Gavrilova and Vasilyeva (2003) construct interface model with the following parameters:

- Functional parameters
- Interactive parameters
- Service parameters
- Layout parameters

Functional parameters determine interaction behavior of the system. These parameters include content and navigation elements. Interactive parameters determine the performance of user interface while using. Interactive parameters comprise dialogs, menu items, fonts, font sizes, visual elements, navigation status (page number, previous and next page), etc. Service parameters include all the elements that contact with interface functions. Finally, layout parameters determines layout of the interface elements, grouping and segmentation. Dialog layout, menu layout, workspace and background color are the main examples of layout parameters (Gavrilova & Vasilyeva, 2003).

Kumar et al. (2004), identify the uses of user interface elements. Amount of information given, information layout, grouping, use of colors, background color and font color contrast, effectiveness of navigation elements are the main uses of interface elements.

According to Chalmers (2003), layout and screen design, icons, menus, dialogs, charts and windows are the elements, which users can use for interaction with the underlying software system.

Dix et al. (1998), under the title of “*Elements of the WIMP Interface*”, identify interface elements such as windows, icons, pointers, menus, buttons, toolbars, palettes and dialogs.

Considering current studies, following interface elements are composed:

- Logos
- Warnings
- Fore color
- Background color
- Paragraphs
- Progress bars
- Labels
- Windows
- Icons
- Widgets
- Menus
- Wizards

4.2.1. Logo position (Question #3)

First question related with interface preferences is logo position. In this question, users can select one of the following options: (1) “*On the Left*”, (2) “*Centered*” and (3) “*On the Right*”.

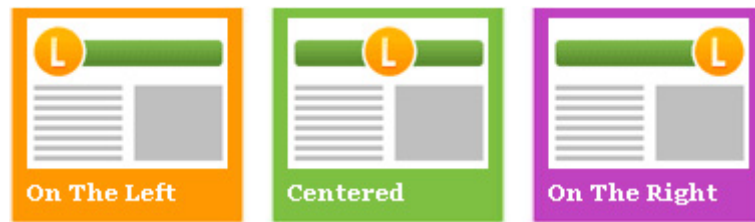


Figure 4.13: In this question, users can select one of the following options: (1) “*On The Left*”, (2) “*Centered*” and (3) “*On The Right*”.

4.2.2. Warnings (Question #4)

This question investigates users’ preference about warnings. Carey (1998), Bass and John (2003) propose some guidelines for better representation of error messages. In this question, users can select one of the following options: (1) “*Pop-up Warnings*” and (2) “*On the Same Form*”.

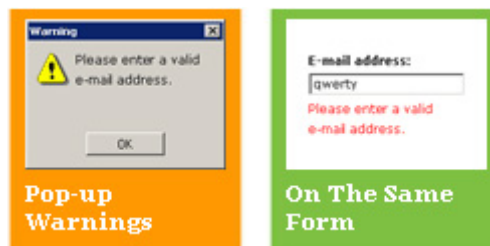


Figure 4.14: In this question, users can select one of the following options: (1) “*Pop-up Warnings*” and (2) “*On The Same Form*”.

4.2.3. Foreground color (Question #5)

Foreground and background color are very important for user interface perception and acceptability (Dix et al., 1998). This question offers two options: (1) “*Black on Gray*” and (2) “*White on Gray*”.



Figure 4.15: This question offers two options: (1) “*Black On Gray*” and (2) “*White On Gray*”.

4.2.4. Paragraphs (Question #7)

Alignment of the paragraphs can be important for content delivery (Chalmers, 2003). In this question, users can select one of the following options: (1) “*Left or Right Aligned*” and (2) “*Justified*”.



Figure 4.16: In this question, users can select one of the following options: (1) “*Left Or Right Aligned*” and (2) “*Justified*”.

4.2.5. Progress bars (Question #8)

While software is processing, it is very common to show some warnings telling user an operation takes place (Brewster & King, 2005). This type of warnings called “*Progress Bars*”. In this question, there two types of progress bars. Users can select either “*Only Loading Text*” or “*Progress Bar*”.



Figure 4.17: Users can select either “*Only Loading Text*” or “*Progress Bar*”.

4.2.6. Label position (Question #10)

For better perception of the forms and the form fields, filled by the users, label position is very important (Penzo, 2006). In this question, users can select one of the following options: (1) “*Labels on the Top*” and (2) “*Labels on the Left*”.

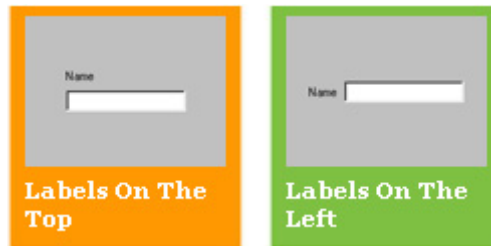


Figure 4.18: In this question, users can select one of the following options: (1) “*Labels on the Top*” and (2) “*Labels on the Left*”.

4.2.7. Windows (Question #11)

In this question, users must specify their preference about window layout. Besides all the benefits and the advantages, some users can have difficulty while using windows (Chalmers, 2003). This question offers two options: (1) “*Windows*” and (2) “*One Screen Pages*”.



Figure 4.19: This question offers two options: (1) “*Windows*” and (2) “*One Screen Pages*”.

4.2.8. Form icons (Question #13)

Some of the interface preference questions are about users' interface habits. It is evident that users' interface habits affect users' interface preferences (Gulliksen, 1996; Spolsky, 2001). Generally, Microsoft Windows form icons are on the right, but Apple MacOS and some of Linux distributions form icons are on the left.



Figure 4.20: Generally, Microsoft Windows form icons are on the right, but Apple MacOS and some of Linux distributions form icons are on the left.

4.2.9. Start Menu (Question #14)

In Microsoft Windows, “*Start*” menu is at the bottom, while, in Apple MacOS, at the top (Spolsky, 2001). In this question, users can select one of the following options: (1) “*At the Bottom*”, (2) “*On the Left*”, (3) “*At the Top*” and (4) “*On the Right*”.



Figure 4.21: In this question, users can select one of the following options: (1) “At the Bottom”, (2) “On the Left”, (3) “At the Top” and (4) “On the Right”.

4.2.10. Human operator or robot operator (Question #15)

Human or robot operators can operate interactive voice response systems. It is believed that some of the users feel more comfortable with human operators, while others feel more comfortable with robot operators. This question investigates users’ preference about interactive call center operators.



Figure 4.22: Human or robot operators can operate interactive voice response systems.

4.2.11. Icon position (Question #16)

Icon is an important interface element (Dix et al., 1998). In this question, users are expected to specify their interface preference about

icon and icon description placement. This question offers four options: (1) “Icon on Top, Text at the Bottom”, (2) “Icon on the Left of the Text”, (3) “Icon on the Right of the Text” and (4) “Text on Top, Icon at the Bottom”.



Figure 4.23: This question offers four options: (1) “Icon On Top, Text At The Bottom”, (2) “Icon On The Left Of The Text”, (3) “Icon On The Right Of The Text” and (4) “Text On Top, Icon At The Bottom”.

4.2.12. Widgets (Question #17)

Widgets are the interface elements assisting users in performing some operations (Swartz & Nardi, 2003). Widgets, with their artificial intelligence, trace user operations and make some proactive actions to help them. It is believed that this nature of the widgets is not acceptable for some users (Swartz & Nardi, 2003).



Figure 4.24: Widgets, with their artificial intelligence, trace user operations and make some proactive actions to help them.

4.2.13. Menu icons (Question #18)

It is believed that, menu icons are very important for some of the users (Chalmers, 2003). This question investigates users' preference about menu icons. In this question, users can select one of the following options: (1) "Important" and (2) "Not Important".

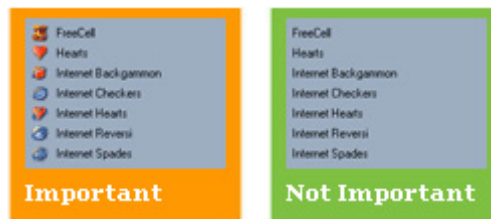


Figure 4.25: In this question, users can select one of the following options: (1) "Important" and (2) "Not Important".

4.2.14. Your desktop (Question #20)

In the same way as the user characteristics (see section 4.1.7), users are expected to specify their computer desktop neatness. It is believed that, users' desk neatness affects users' computer desktop neatness.



Figure 4.26: It is believed that, users' desk neatness affects users' computer desktop neatness.

4.2.15. Which background color (Question #22)

Background color has a great impact on user interface acceptability (Zhang, Small, von Dran & Barcellos, 1999). In this question, users are expected to specify their preference about background color. This question offers two options: (1) “*Black*” and (2) “*White*”.



Figure 4.27: This question offers two options: (1) “*Black*” and (2) “*White*”.

4.2.16. Menus (Question #24)

Menu is an important interface element. In addition to that, menu layout has an impact on interface usability (Carroll, 1997). In this question, users can select one of the following options: (1) “*Horizontal Menu*” and (2) “*Vertical Menu*”.

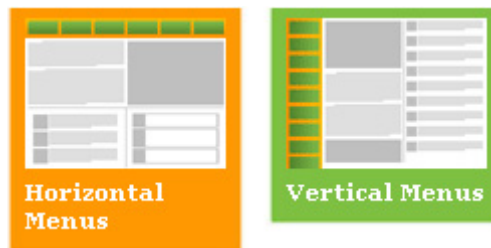


Figure 4.28: In this question, users can select one of the following options: (1) “Horizontal Menu” and (2) “Vertical Menu”.

4.2.17. Wizards in a software (Question #26)

Wizards provide a sequential dialog layout. Wizards form a group from dialog fields and show them in a certain sequence. This nature of the wizards has great advantages for performing some operations (Vanderdonckt & Farenc, 2000). However, usage frequency of the wizards can change among users. This question offers three options: (1) “Use Always”, (2) “Use Occasionally” and (3) “Never Use”.



Figure 4.29: This question offers three options: (1) “Use Always”, (2) “Use Occasionally” and (3) “Never Use”.

4.3. Survey website (*fullypersonalinterface.com*)

After composing the survey questions, a website has been developed for collecting user information online. This website called www.fullypersonalinterface.com.

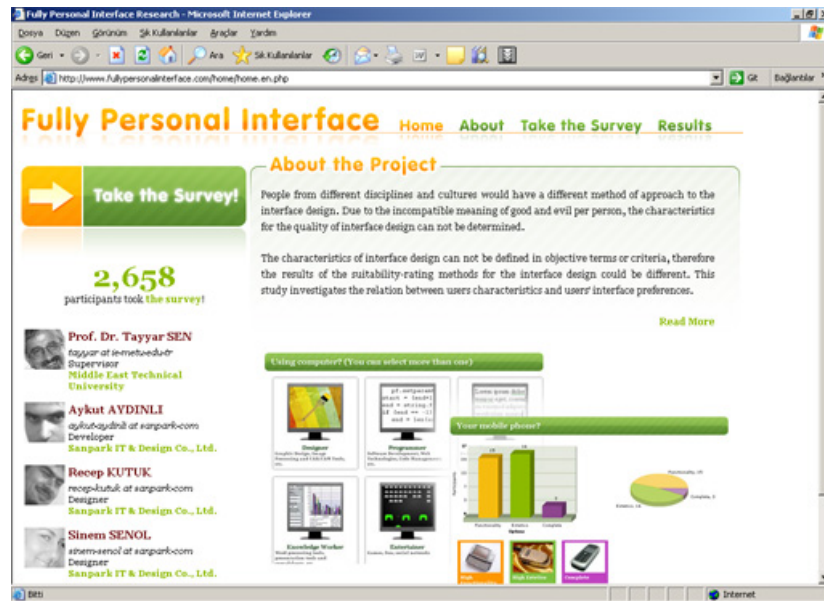


Figure 4.30: After composing the survey questions, a website has been developed for collecting user information online.

This website briefly introduces our study and forwards users to survey page.

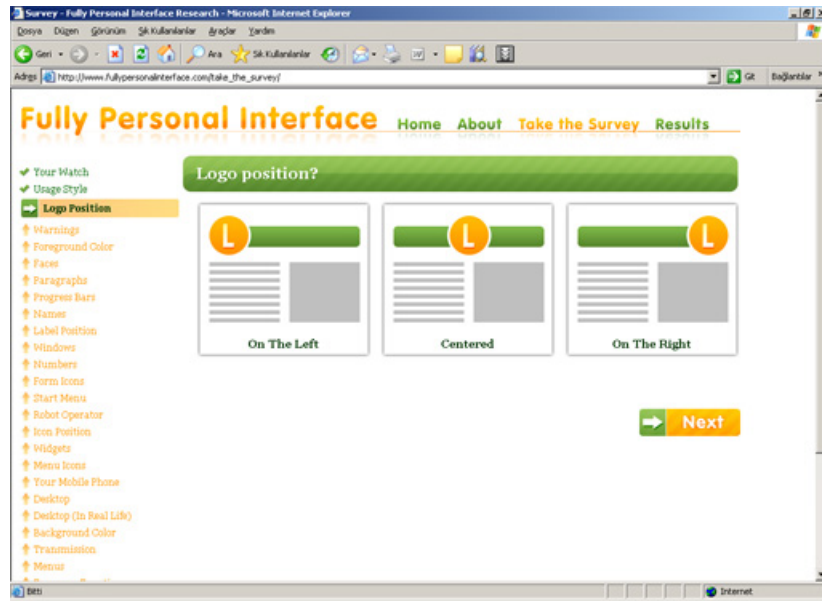


Figure 4.31: This website briefly introduces our study and forwards users to survey page.

After completing the survey, the website forwards users to “*Results*” page. In “*Results*” page, users can analyze global survey results that are open to anyone.



Figure 4.32: After completing the survey, the website forwards users to “Results” page. In “Results” page, users can analyze global survey result. Survey results are open to anyone.

Besides, users can evaluate results according to age, gender and geographical region. This website stores answers given by the users in a database for further statistical analysis. While developing the fullypersonalinterface.com web site, Visual Ideology (Watkins, 2004) and Interface Research (Nichols, Bartlett, Kohan, Ware & Nelson, 2007) projects are analyzed; and interface preferences and user characteristics are combined by a similar approach to these sites. The fullypersonalinterface.com web site has been developed using PHP server-side scripting programming language and MySQL database management system. IP and cookie control has been applied for eliminating recurrent participations. This makes site visitors participate the survey only once.

4.4. Publishing fullypersonalinterface.com and first impacts

After publishing the fullypersonalinterface.com website, domestic and global online magazines, social networks, blogs and forums was invited. These

websites responded our invitation positively and referred our study in their websites.

Smashing Magazine referred our study, with the following words:

“Take part in Fully Personal Interface Research - Fully Personal Interface research is a survey where people are questioned about their interface preferences. Results: labels and icons should be placed on the left, horizontal menus are more popular than vertical ones.” (Friedman & Lennartz, 2008)

Ladd (2008) referred our study, as the following:

“So what interfaces do users really want and what do they really like? Over at Fully Personal Interface they are finding out with a verify interesting survey on different aspects of ‘interface’ and you can see a report on them. Please take a moment to take the survey”.

More than 9.500 people from 124 countries, visited fullypersonalinterface.com website so far. These people from United States to China, New Zealand to Canada have been participated our survey and leaved their comments.

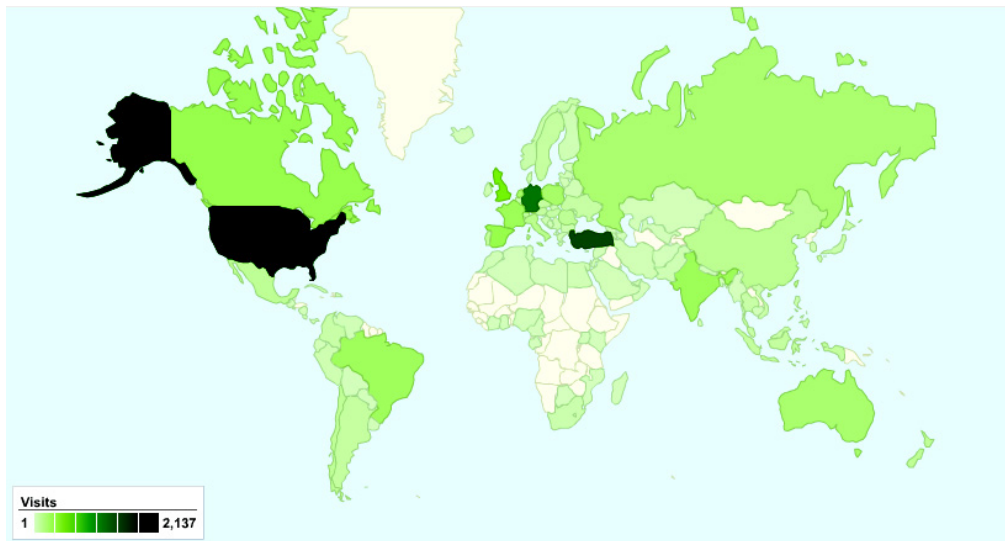


Figure 4.33: More than 9,500 people from 124 countries, visited fullypersonalinterface.com website so far.

More than 2,500 participants from 120 countries of the world successfully completed our online survey. Fullypersonalinterface.com website is still online and accepting participants. The number of participants is increasing day by day. However, the data of 2,658 participants were analyzed.

CHAPTER 5

SURVEY RESULTS AND EVALUATION

5.1. Test and evaluation methods

The nature of the survey necessitates the definition of nominal variables. Options of the survey questions are nominal scaled. Chi-Square tests are used for analyzing the relationship between nominal scaled variables.

The relationship between a user characteristics variable and the corresponding interface preference variable has been determined based on cross-table analysis. In addition to Chi-Square tests, Cramer's V statistics are applied for determining the strength of relationship between variables. A value of zero from Cramer's V statistics indicates no relationship; and a value of one indicates a perfect relationship (Janssens, Wijnen, De Pelsmacker & Van Kenhove, 2008, p.48).

Table 5.2 lists the nominal variables defined for the analysis:

Table 5.2: Nominal variables defined

Question #	Question	Type	Options
1	Your watch User Wrist Watch	User characteristics	0: Not Available 1: Digital Watch 2: Analog Watch 3: No Watch

Table 5.2: Nominal variables defined (continued)

Question #	Question	Type	Options
2	Designer (Usage style) User Designer	User characteristics	0: Not Designer 1: Designer
2	Programmer (Usage style) User Programmer	User characteristics	0: Not Programmer 1: Programmer
2	Data Operator (Usage style) User Programmer	User characteristics	0: Not Data Operator 1: Data Operator
2	Knowledge Worker (Usage style) User Knowledge Worker	User characteristics	0: Not Knowledge Worker 1: Knowledge Worker
2	Entertainer (Usage style) User Entertainer	User characteristics	0: Not Entertainer 1: Entertainer
3	Logo position Interface Logo Position	Interface preferences	0: Not Available 1: Left 2: Center 3: Right
4	Warnings Interface Warnings	Interface preferences	0: Not Available 1: Pop-up 2: On Form
5	Foreground color Interface Forecolor	Interface preferences	0: Not Available 1: Black 2: White
6	Remember faces User Remember Faces	User characteristics	0: Not Available 1: Very Well 2: Sometimes 3: Not Exactly
7	Paragraphs Interface Paragraphs	Interface preferences	0: Not Available 1: Aligned 2: Justified

Table 5.2: Nominal variables defined (continued)

Question #	Question	Type	Options
8	Progress bars Interface Progress Bars	Interface preferences	0: Not Available 1: Only Text 2: Progress Bar
9	Remember names User Remember Names	User characteristics	0: Not Available 1: Very Well 2: Sometimes 3: Not Exactly
10	Label position Interface Label Position	Interface preferences	0: Not Available 1: On The Top 2: On The Left
11	Windows Interface Windows	Interface preferences	0: Not Available 1: Windows 2: One Screen
12	Remember numbers User Remember Numbers	User characteristics	0: Not Available 1: Very Well 2: Sometimes 3: Not Exactly
13	Form icons Interface Form Icons	Interface preferences	0: Not Available 1: Right 2: Left
14	Start Menu Interface Start Menu	Interface preferences	0: Not Available 1: Bottom 2: Left 3: Top 4: Right
15	Human operator or robot operator Interface Human or Robot Operator	Interface preferences	0: Not Available 1: Human 2: Robot

Table 5.2: Nominal variables defined (continued)

Question #	Question	Type	Options
16	Icon position Interface Icon Position	Interface preferences	0: Not Available 1: Top 2: Left 3: Right 4: Bottom
17	Widgets Interface Widgets	Interface preferences	0: Not Available 1: I Love 2: I Hate
18	Menu icons Interface Menu Icons	Interface preferences	0: Not Available 1: Important 2: Not Important
19	Your mobile phone User Mobile Phone	User characteristics	0: Not Available 1: Very Well 2: Sometimes 3: Not Exactly
20	Your desktop Interface Computer Desktop	Interface preferences	0: Not Available 1: Organized 2: Untidy
21	Your desktop (in real life) User Real Desktop	User characteristics	0: Not Available 1: Organized 2: Untidy
22	Which background color Interface Backcolor	Interface preferences	0: Not Available 1: Black 2: White
23	Transmission User Transmission	User characteristics	0: Not Available 1: Manual 2: Automatic
24	Menus Interface Menu	Interface preferences	0: Not Available 1: Horizontal 2: Vertical

Table 5.2: Nominal variables defined (continued)

Question #	Question	Type	Options
25	Form vs. function User Form vs. Function	User characteristics	0: Not Available 1: Function 2: Form
26	Wizards in a software Interface Wizards	Interface preferences	0: Not Available 1: Always 2: Occasionally 3: Never
27	New features User New Features	User characteristics	0: Not Available 1: Shy 2: Confident 3: Interested
28	Revolving clockwise or counterclockwise User Left Brained or Right Brained	User characteristics	0: Counterclockwise 1: Clockwise
30	Gender User Gender	User characteristics	0: Male 1: Female

In table 5.2, first column stands for the question index. Second column lists the question text. Third column stands for the question type. There are two types of question: (1) User characteristics and (2) interface preferences. Last column lists the question options.

The answers for the question #2 (see section 4.1.2) are taken into account separately (i.e. participants can select more than one option for this question). In order to perform Chi-Square and Cramer's V analysis correctly, the number of observations must be sufficient. Nominal scales must have an expected frequency greater than 5 (Janssens et al., 2008). Therefore, birth date and country answers were reclassified.

Hu, Zeng, Li, Niu and Chen (2007) classify users as the following:

Table 5.3: User age class

Group	Age
Teenage	< 18
Youngster	18 - 24
Young	25 - 34
Mid-Age	35 - 49
Elder	> 49

Following table, table 5.4, shows the nominal variables defined based on the study of Hu et al.:

Table 5.4: Additional nominal variables defined for age

Question #	Question	Type	Options
29	Birth date User Age Class	User characteristics	1: Teenage 2: Youngster 3: Young 4: Mid-Age 5: Elder

Additionally, country answers are reclassified based on the written language. According to this classification, countries with Turkish-like written language: “*Domestic*”; countries having written language direction from right to left: “*Middle East*”; countries having written language direction from left to right: “*Western World*” and finally countries having written language direction from top to down: “*Far East*”. Appendix D, table A.971, shows the distribution of participants among countries and country classes.

According to the written language direction, following nominal variables (see table 5.6) are defined:

Table 5.6: Additional nominal variables defined for country

Question #	Question	Type	Options
31	Country User Country Class	User characteristics	1: Domestic 2: Western World 3: Far East 4: Middle East

After construction of the nominal scales, Chi-Square and Cramer's V analysis are performed. Succeeding section gives detailed information about results.

5.2. Survey results

Survey results about user characteristics and interface preferences are listed in the appendix A. Tables between table A.1 and table A.35 list the frequencies and percentages of the each question. In these frequency tables, question options are listed at the rows. First column lists the frequency of corresponding option. Second column lists the percentage of corresponding option. Third and fourth columns list the valid percentage and cumulative percentage respectively. Additionally, appendix B lists cross tables, Chi-Square and Cramer's V results. In cross tables, interface preferences are listed at the rows and user characteristics are listed at the columns.

Figure 5.1, figure 5.2 and figure 5.3 summarize the relationship between interface preferences and user characteristics. In these figures each user characteristics and interface preferences are depicted as a node (i.e. green

nodes for interface preferences and blue nodes for user characteristics). Nodes are located adjacent to each other depending on their relationships. Lines stand for the strength of the relationships. For better understanding, figure 5.1 only shows the elements with Cramer's V value greater than 0.150. Figure 5.2 shows the elements with Cramer's V value between 0.100 and 0.150. Finally figure 5.3 shows the elements with Cramer's V value smaller than 0.100.

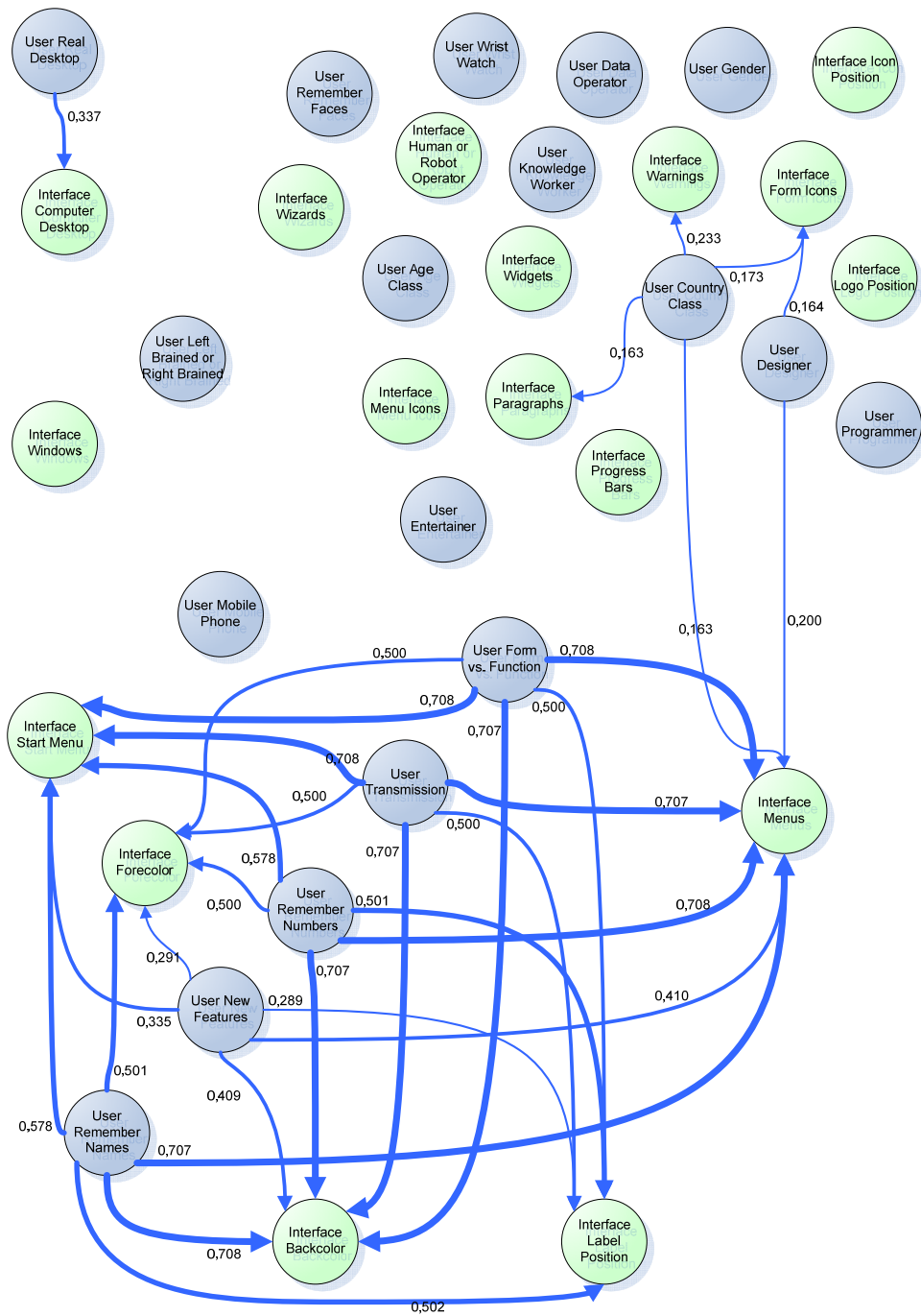


Figure 5.1: This figure summarizes the relationship between interface preferences and user characteristics. For better understanding, this figure only shows the elements with Cramer's V value greater than 0.150.

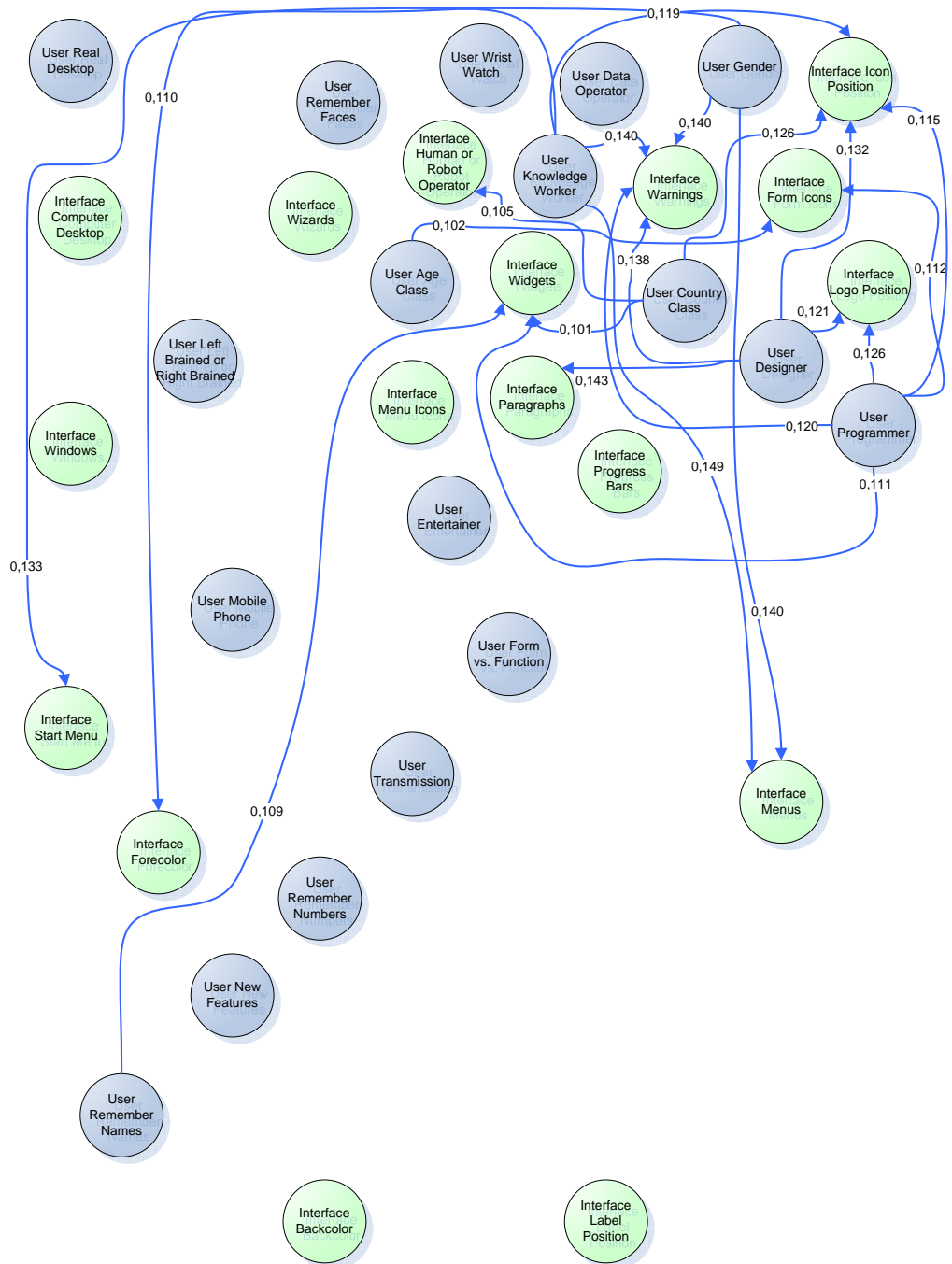


Figure 5.2: This figure summarizes the relationship between interface preferences and user characteristics. For better understanding, this figure only shows the elements with Cramer's V value between 0.100 and 0.150.



Figure 5.3: This figure summarizes the relationship between interface preferences and user characteristics. For better understanding, this figure only shows the elements with Cramer's V value smaller than 0.100.

Analysis shows that some of the interface preferences have relationship with some of the user characteristics. Considering this relationship, one must focus on user characteristics of the target audience for designing better user interfaces. Additionally, one can use some of the user characteristics to generate adaptable user interfaces driven by artificial intelligence.

CHAPTER 6

DEVELOPMENT OF ARTIFICIAL INTELLIGENCE MODEL

Artificial intelligence (AI) is a computer science subdivision that seeks the ways of making computer software and hardware think like human (Turban, 1995). Turban (1995) defines AI with the following words:

“Artificial intelligence is behaviour by a machine that, if performed by a human being, would be called intelligent” (p.443).

Additionally Turban (1995) lists the objectives of artificial intelligence as the following:

1. Make machines smarter (primary goal)
2. Understand what intelligence is (the Noble laureate purpose)
3. Make machines more useful (the entrepreneurial purpose)

Turban (1995) focuses on the following advantages of the artificial intelligence applications:

- Permanent way of digitizing and storing expertise
- Ease of duplication and dissemination of experience
- Cost-effective
- Ease of working with incomplete or implicit data

- Ease of implementation

According to Perkowitz and Etzioni (1997), it is possible to create adaptive user interfaces by using AI techniques. Succeeding sections proposes a model for estimating user's interface preferences based on user's characteristics given.

6.1. Artificial neural networks

According to Turban (1995), artificial neural networks are a model that emulates biological neural networks. The artificial neuron receives inputs that are analogous to the electrochemical impulses that the dendrites of biological neurons receive from other neurons. The output of the artificial neuron corresponds to signals sent out from a biological neuron over its axon.

Figure 6.1 and figure 6.2 depict a biological neuron cell and an artificial neuron respectively:

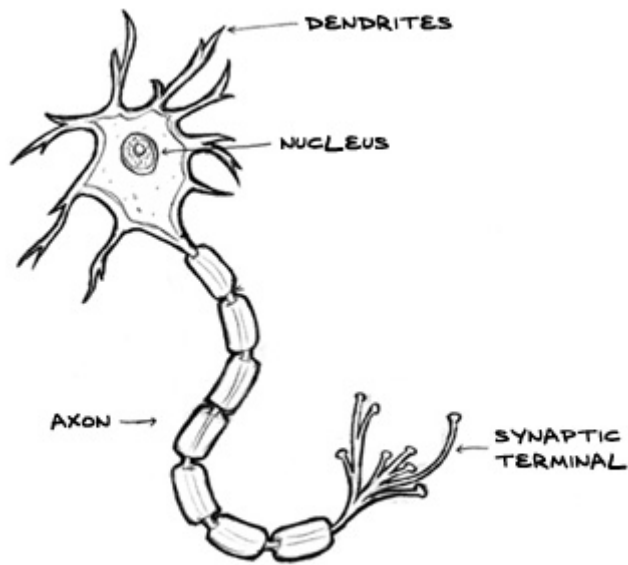


Figure 6.1: Biological Neuron Cell

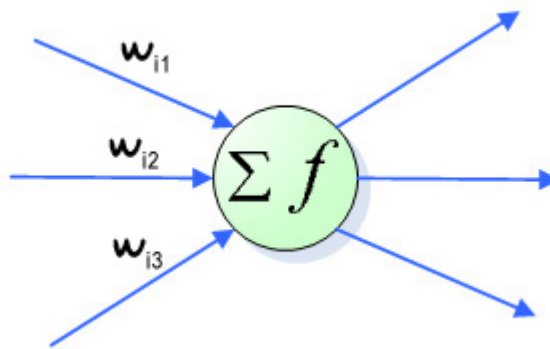


Figure 6.2: Artificial Neuron

Artificial neural network is an artificial intelligence approach that attempts to mimic the manner in which our brains work. It is one of several approaches to machine learning (Turban 1995).

The basic idea behind artificial neural network is to define outputs with incomplete inputs, by the help of the experience gained from previous iterations. This nature of neural networks necessitates the construction of relations between possible causes (inputs) and possible effects (outputs). The significance of these relationships is determined from past data. Some causes become more effective on the final outputs while some others do not. As mentioned earlier, this study tries to define user interface preferences with user characteristics. However, Chi-Square analyses and Cramer's V statistics show that eighteen user characteristics specified for this study are not sufficient to define interface preferences **explicitly** (see tables from A.33 to A.953). On the other hand, these statistical analyses applied are sufficient to define some relations between user characteristics and interface preferences. Additionally, survey data collected online can be adequate to sustain certain level of experience for the neural network model. It is believed that use of artificial neural networks can be beneficial for the estimation of interface preferences of a specific user. Section 6.2, supplies detailed information about the model developed for this purpose.

6.2. Development of the model

This study proposes seventeen questions about interface preferences. Additionally eighteen questions are combined to generate user characteristics. Cross-table and Chi-Square analyses are used to eliminate irrelevant user characteristics for each interface preference. Appendix C, lists related user characteristics for each interface preference (i.e. related user characteristics listed in boldface. For significant relationship: "*Pearson Chi-Square asymp. sig. (2-sided)*" value must be < 0.001 and "*Strength of relationship (Cramer's V)*" must be > 0.000). By the help of the statistical analyses applied, it is possible to develop artificial neural network model for the estimation of interface preferences of a specific user.

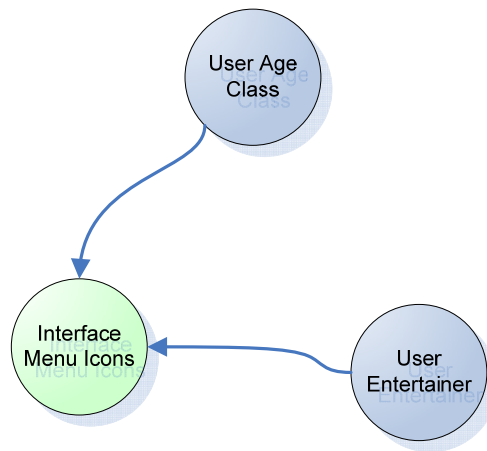


Figure 6.3: Interface preference question and its related user characteristics questions.

Figure 6.3 shows an interface preference question and its related user characteristics questions. This information gathered from table A.966. Statistical analyses show that there is a significant relationship between Interface Menu Icons, User Age Class and User Entertainer. Although there are eighteen user characteristics questions, only two user characteristics questions significantly related to Interface Menu Icons. This information gives a chance to develop more efficient neural network model. Eliminating irrelevant user characteristics avoids unnecessary calculations and saves CPU time.

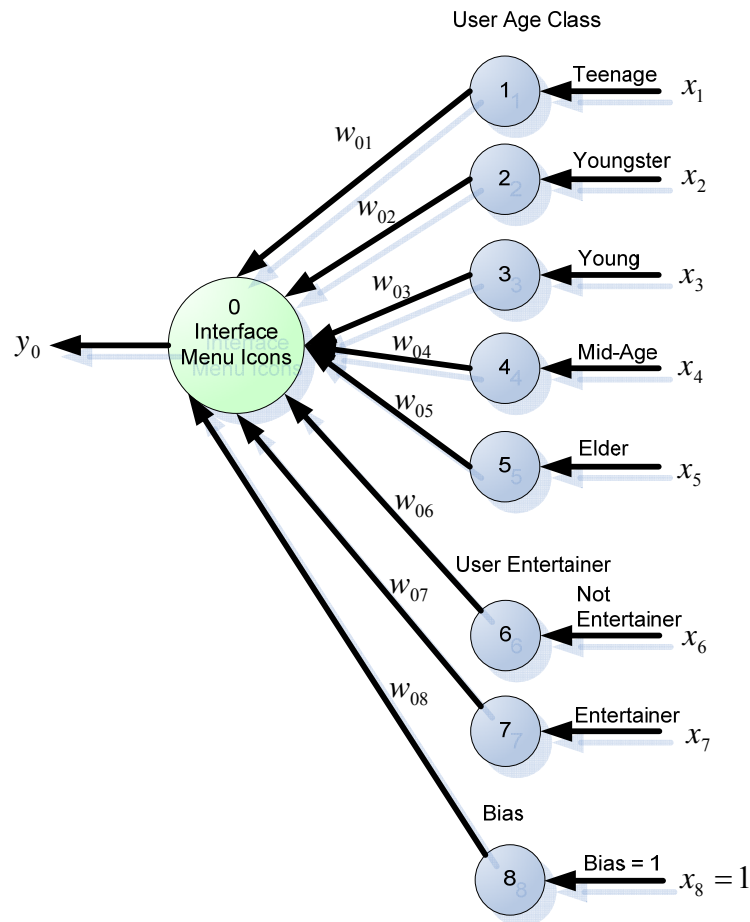


Figure 6.4: Artificial neural network model for interface preference

Figure 6.4 shows artificial neural network model for interface preference depicted in figure 6.3. In this figure, neural network model attempts to estimate the answer of Interface Menu Icons question by the help of the given answers of User Age Class and User Entertainer questions. In this model, all possible answers –options- for the inputs form a node. $w_{01}, w_{02}, \dots, w_{08}$ are the weights of the nodes. The answer of the Interface Menu Icons question can be estimated as the following:

$$y_0 = w_{01}x_1 + w_{02}x_2 + w_{03}x_3 + w_{04}x_4 + w_{05}x_5 + w_{06}x_6 + w_{07}x_7 + w_{08}x_8 \quad (1)$$

In equation (1):

- y_0 , output of the model, denotes the estimated answer of the `Interface Menu Icons` question.
 $y_0 \in \{0,1,2,3\}$
- w_{0i} , relative strengths (weights) of the nodes, denotes the weights of the user characteristics.
 $i \in \{1, \dots, 8\}$
- x_i , inputs of the model, denotes value of user characteristics options.
 $i \in \{1, \dots, 8\}, x_i \in \{0,1\}, x_8 = 1$

By using the same approach, neural network models are developed for each interface preference question except `Interface Windows` question. Because `Interface Windows` question have no significant relationship with any user characteristics (see table A.960). A Microsoft Excel macro is developed using Visual Basic for Applications (VBA) to implement “*Gradient Descent Supervised Learning Algorithm*”. According to Turban (1995), supervised learning algorithm stands for a set of data with known inputs and known or desired outputs. The difference between desired and actual output is used to calculate corrections to the weights. Survey data collected online is suitable for the implementation of this algorithm. Figure 6.5 and figure 6.6 are the Microsoft Excel screenshots of the macro developed for the implementation.

	A	B	C	D	E	F	G	H	I	J	K	L	N	
1	2601		1902,6305	116,46877	622,52617	838,58565	295	30,001925	1174,3393	728,29114				
2	0,0001		0,399295	0,1712709	0,2090639	0,159656	0	0,0757974	0,1174339	0,0728291				
3	2290	32												
4	ID	InterfaceMer	Bias	UserAgeClas	UserAgeClas	UserAgeClas	UserAgeClas	UserAgeClas	UserAgeClas	UserEntertail	UserEntertail	Forecast	Error	True?
5	3	1	1	0	0	0	1	0	0	0	1	0,6317801	0,067793	1
6	9	1	1	0	0	0	1	0	0	1	0	0,6763849	0,0523634	1
7	22	1	1	0	0	0	1	0	0	0	1	0,6317801	0,067793	1
8	28	1	1	0	0	0	1	0	0	0	1	0,6317801	0,067793	1
9	29	1	1	0	0	0	1	0	0	0	1	0,6317801	0,067793	1
10	30	1	1	0	0	0	1	0	0	1	0	0,6763849	0,0523634	1
11	31	2	1	0	1	0	0	0	0	1	0,681188	0,8696326		
12	32	1	1	0	0	1	0	0	0	1	0,6317801	0,067793	1	
13	34	2	1	0	1	0	0	0	0	1	0,681188	0,8696326		
14	36	1	1	0	1	0	0	0	1	0	0,7257928	0,0375948	1	
15	37	1	1	0	0	0	1	0	0	1	0	0,6763849	0,0523634	1
16	39	2	1	0	0	0	0	1	0	0	1	0,8190628	0,9534937	
17	41	1	1	0	0	0	1	0	0	0	1	0,6317801	0,067793	1
18	42	1	1	0	0	0	1	0	0	1	0	0,6763849	0,0523634	1
19	43	1	1	0	0	0	1	0	0	1	0	0,6763849	0,0523634	1
20	45	1	1	0	0	0	1	0	0	0	1	0,6317801	0,067793	1

Figure 6.5: A Microsoft Excel macro is developed using VBA to implement “Gradient Descent Supervised Learning Algorithm”

	A	B	C	D	E	F	G	H	I	J	K	L
1	2601		1902,6305	116,46877	622,52617	838,58565	295	30,001925	1174,3393	728,29114		
2	0,0001		0,399295	0,1712709	0,2090639	0,159656	0	0,0757974	0,1174339	0,0728291		
3	2290											
4	ID	Inter										
5	3											
6	9											
7	22											
8	28											
9	29											
10	30											
11	31											
12	32											
13	34											
14	36											
15	37											
16	39											
17	41											
18	42											
19	43											
20	45											
21	46											
22	47											
23	48											
24	49											
25	50											
26	51											
27	52											
28	53											
29	55											
30	56											
31	57											
32	58											
33	61											
34	63											

Microsoft Visual Basic - Model.2.00.InterfaceMenuIcons.xls - [Module1 (Code)]

File Edit View Insert Format Debug Run Tools Add-Ins Window Help

(General) learn

```

End Sub
Sub learn()

' Initialize learning algorithm scope
For lLearningIteration = 1 To 2600

' Initialize line
initializeLine

' Get current participant's information
dCurrentParticipant = Sheets("Sayfa1").Range("A1")

' Get desired output
dRealValue = Sheets("Sayfa1").Range("B" & (4 + (dCurrentPartic

' Find forecast column
lForecastColumn = 1
While (Sheets("Sayfa1").Cells(4, lForecastColumn) <> "")
lForecastColumn = lForecastColumn + 1
Wend
lForecastColumn = lForecastColumn - 2

```

Figure 6.6: A Microsoft Excel VBA code to implement “Gradient Descent Supervised Learning Algorithm”

Survey data collected online is used to train neural network models developed for each interface preference question. Each neural network model is tested for alternative learning rate settings. Best learning rate setting based on the input data is employed for learning process (i.e. each neural network model is

populated with survey data. After each implementation, the number of successful estimates is reported. The learning rate with the maximum number of successful estimates over survey data is selected. Binary search algorithm is used to find the best learning rate). The data collected from 2658 participants are used to train sixteen –excluding *Interface Windows* question- neural network models. Trained neural network models for each interface preference question are used to generate resulting user interface. Succeeding section supplies detailed information about user interface interpretation.

6.3. Interpretation of the user interface

After learning process, it is possible to generate resulting user interface. Interface preferences proposed in this study are in terms of design decisions and stand for assisting user interface designers. This model helps to identify possible user interface preferences of a specific user. The user is required to answer eighteen user characteristics questions. Eighteen user characteristics questions gathered from the user are used to estimate sixteen interface preference questions. Figure 6.7 show the estimated user interface preferences based on the following user characteristics:

User Country Class	: Western World
User Gender	: Male
User Age Class	: Young
User Image Revolving	: Counter-clockwise
User Designer	: Designer
User Programmer	: Not Programmer
User Data Operator	: Not Data Operator
User Knowledge Worker	: Not Knowledge Worker
User Entertainer	: Not Entertainer
User Wrist Watch	: No Watch
User Remember Faces	: Very Well
User Remember Names	: Sometimes
User Remember Numbers	: Very Well

User Mobile Phone : Complete
 User Real Desktop : Organized
 User Transmission : Manual
 User Form vs. Function : Function
 User New Features : Confident

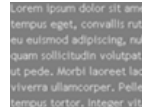
Interface Icon Position:
Left



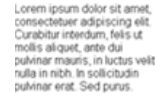
Interface Warnings:
On Form



Interface Forecolor:
White



Interface Paragraphs:
Aligned



Interface Progress Bars:
Left



Interface Label Position:
On The Left

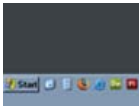


Interface Windows:
N/A

Interface Form Icons:
Right



Interface Start Menu:
Bottom



Interface Human or
Robot Operator:
Human



Interface Icon Position:
Left



Interface Widgets:
I Love



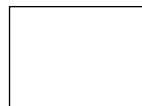
Interface Menu Icons:
Important



Interface Computer
Desktop:
Organized



Interface Backcolor:
White



Interface Menus:
Horizontal



Interface Wizards:
Occasionally



Figure 6.7: Estimated user interface preferences of a specific user

Figure 6.8 shows a resulting user interface instance can be presented for a given set of user characteristics. In the figure 6.8, menus are horizontal; logo position is on the left; paragraphs are left aligned; background is white; textbox labels are on the left; lastly, warnings are placed in the form (see figure 6.7). There can be limitless number of user interface alternatives depending on the same interface preferences.



Figure 6.8: Generated user interface based on user characteristics of a specific user

Additionally, ten extra participants are selected for the investigation of the overall performance of the model. The data collected from these participants are not used in learning dataset. This gives a chance to investigate model behavior with original data.

Table 6.1. Estimated Interface Preferences

<i>Participant</i>	<i>Interface</i>					<i>Interface</i>
	<i>Logo Position</i>	<i>Interface Warnings</i>	<i>Interface Forecolor</i>	<i>Interface Paragraphs</i>	<i>Interface ProgressBars</i>	<i>Label Position</i>
1	✓	✓	✓	✓	✓	✓
2	✗	✓	✗	✓	✓	✗
3	✓	✓	✓	✓	✓	✗
4	✓	✓	✓	✓	✓	✓
5	✓	✓	✓	✗	✓	✗
6	✓	✓	✓	✓	✓	✗
7	✗	✓	✓	✓	✗	✓
8	✓	✓	✓	✗	✓	✓
9	✓	✓	✓	✗	✓	✓
10	✗	✓	✓	✓	✓	✓

Table 6.2. Estimated Interface Preferences

<i>Participant</i>	<i>Interface</i>	<i>Interface</i>	<i>Interface</i>	<i>Interface</i>	<i>Interface</i>	
	<i>Windows</i>	<i>Form Icons</i>	<i>Start Menu</i>	<i>Human Robot</i>		<i>Icon Position</i>
1	N/A	✓	✓	✗	✓	✓
2	N/A	✓	✗	✓	✗	✗
3	N/A	✗	✓	✓	✓	✓
4	N/A	✓	✓	✓	✓	✓
5	N/A	✓	✓	✓	✓	✓
6	N/A	✗	✓	✗	✓	✓
7	N/A	✓	✓	✓	✗	✓
8	N/A	✓	✓	✓	✗	✓
9	N/A	✓	✓	✓	✓	✓
10	N/A	✗	✓	✓	✓	✗

Table 6.3. Estimated Interface Preferences

<i>Participant</i>	<i>Interface</i>				
	<i>Interface Menu Icons</i>	<i>Computer Desktop</i>	<i>Interface Backcolor</i>	<i>Interface Menus</i>	<i>Interface Wizards</i>
1	✓	✓	✗	✓	✗
2	✓	✓	✓	✓	✓
3	✓	✓	✗	✓	✓
4	✓	✗	✗	✗	✓
5	✓	✓	✓	✓	✗
6	✗	✓	✗	✓	✗
7	✓	✓	✗	✓	✓
8	✓	✓	✓	✓	✓
9	✓	✗	✗	✓	✓
10	✓	✓	✗	✓	✗

Table 6.1, table 6.2 and table 6.3 lists the results gathered from artificial neural network models. For better understanding, seventeen interface preferences are separated into three groups. Interface preferences are listed at the columns and participants are listed at the rows. ✓ stands for the successful estimates of the corresponding interface preference and ✗ stands for unsuccessful estimates. In table 6.2, Interface Windows are not listed for any participants (see table A.960).

CHAPTER 7

CONCLUSION AND FUTURE DIRECTIONS

7.1. Concluding remarks

In this study, some of the user characteristics and the user interface options are combined to form a survey and this survey is conducted online to ensure participation of different people from different geographical regions, with different languages, beliefs and cultural traits. This survey has reached more than 9,500 people from 124 countries around the world. More than 2,500 of them showed patience and completed our survey. The data collected from more than 2,500 computer users were compiled to analyze the relationship between user characteristics and user interface preferences. Cross-table, Chi-Square analyses and Cramer's V statistics are employed for the investigation of the relationship. After determining the relationships between user characteristics and interface preferences, an artificial intelligence model developed using artificial neural networks. Survey data gathered from the participants are used to train neural network model. This model is used to generate final user interface depending on the user characteristics.

Statistical analyses show that some of the interface options such as: Interface Warnings: On Form (92%, see table A.20); Interface Forecolor: White (83%, see table A.21); Interface Progress Bars: Progress Bar (93%, see table A.23); Interface Human or Robot Operator: Human (84%, see table A.28); Interface Menu Icons: Important (88%, see table A.31) and Interface Computer Desktop: Organized (82%, see table A.32) seems to

be dominating. In this sense, there can be a chance for constructing globally accepted user interface paradigms based on dominating interface preferences.

It is obvious that, there exists a relationship between users' characteristics and users' interface preferences. Most of the user characteristics such as User Country Class, User Gender, User Age Class, User Designer, User Programmer, User Data Operator, User Knowledge Worker, User Entertainer, User Wrist Watch, User Remember Faces, User Remember Names, User Remember Numbers, User Real Desktop, User Transmission, User Form vs. Function and User New Features (see tables from A.954 to A.970) is related to interface preferences. On the other hand, user characteristics such as User Left Brained or Right Brained (see tables from A.189 to A.239) and User Mobile Phone (see tables from A.699 to A.749) have no relation with any interface preferences. As a result, for designing usable interfaces, one must take into consideration user characteristics of the target audience.

It is evident that, other interfaces used by users affect these users' computer interface preferences (e.g. User Transmission * Interface Forecolor (strength of relationship: 0.500, see table A.809), User Transmission * Interface Label Position (strength of relationship: 0.500, see table A.818), User Transmission * Interface Start Menu (strength of relationship: 0.708, see table A.827), User Transmission * Interface Backcolor (strength of relationship: 0.707, see table A.845) and User Transmission * Interface Menus (strength of relationship: 0.707, see table A.848)).

Analysis definitely showed that, users' habits in their real life affect their interface preferences (User Real Desktop * Interface Computer Desktop, strength of relationship: 0.337, see table A.791). Significant

relationship between User Real Desktop and Interface Computer Desktop is not that strong. However, Interface Computer Desktop has only relationship with User Real Desktop. This finding corroborates using metaphors in user interfaces.

Artificial intelligence model for the estimation of interface preferences supplied average level of conformance. Successful estimation for each interface preference is as the following: Interface Logo Position (7/10), Interface Warnings (10/10), Interface Forecolor (9/10), Interface Paragraphs (7/10), Interface ProgressBars (9/10), Interface Label Position (6/10), Interface Windows (N/A), Interface Form Icons (7/10), Interface Start Menu (9/10), Interface Human Robot (8/10), Interface Icon Position (7/10), Interface Widgets (8/10), Interface Menu Icons (9/10), Interface Computer Desktop (8/10), Interface Backcolor (3/10), Interface Menus (9/10) and Interface Wizards (6/10) (see tables 6.1, 6.2 and 6.3). For determining the overall performance of the artificial intelligence model, it is beneficial to examine estimation conformance from the participant point of view. Model generated average 12.2 successful estimations ($\delta = 1.3984$) out of sixteen interface preferences for ten participants.

On the contrary, some of the demographic information such as User Gender: Male (86%, see table A.2), User Designer: Designer (65%, see table A.5) and User Country Class: Western World (79%, see table A.1) are dominating. In addition, one can say all the participants have a certain level of computer experience because of online participation. Additionally, the strength of the relationships between user characteristics and user interface preferences are not that strong in general. For more quality results, it is essential to collect data from more homogeneous groups such as users with limited or none computer experience and users not dominating in terms of gender, occupation

and geographical region. Besides, wording of the survey, images used in the content and the user interface of the fullypersonalinterface.com website itself can mislead participants. All these factors can affect survey results adversely. Besides, artificial neural network models have two-layer –input & output layers- structure. This basic structure of the artificial neural network models can be insufficient to extract patterns from survey data. Employing more complex artificial neural network model, including extra hidden layers and output nodes, can yield more conforming estimates.

7.2. Future directions

User interface researches gain more importance day by day. There are some principles and methods, but these methods are not sufficient neither completely acceptable nor globally agreed. Lack of universal principles and methodologies causes explosion of the interface design costs in software development life cycle. Industry has an urgent demand for the construction of usability metrics/measures and units for the user interfaces.

It is evident that good or evil can differ person to person. Therefore, the necessity of user interfaces that can evolve to better suit the conditions is increasing. It is believed that use of artificial intelligence can widen the limits of user interface design.

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APPENDICES

A. FREQUENCY TABLES

Table A.1: User Country Class

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Domestic	387	14.6	14.6	14.6
	Western World	2094	78.8	78.8	93.3
	Far East	29	1.1	1.1	94.4
	Middle East	148	5.6	5.6	100.0
	Total	2658	100.0	100.0	

Table A.2: User Gender

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Male	2288	86.1	86.1	86.1
	Female	370	13.9	13.9	100.0
	Total	2658	100.0	100.0	

Table A.3: User Age Class

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Teenage	163	6.1	6.1	6.1
	Youngster	915	34.4	34.4	40.6
	Young	1171	44.1	44.1	84.6
	Mid-Age	373	14.0	14.0	98.6
	Elder	36	1.4	1.4	100.0
	Total	2658	100.0	100.0	

Table A.4: User Left Brained or Right Brained

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Counter-Clockwise	2170	81.6	81.6	81.6
	Clockwise	488	18.4	18.4	100.0
	Total	2658	100.0	100.0	

Table A.5: User Designer

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Designer	935	35.2	35.2	35.2
	Designer	1723	64.8	64.8	100.0
	Total	2658	100.0	100.0	

Table A.6: User Programmer

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Programmer	1286	48.4	48.4	48.4
	Programmer	1372	51.6	51.6	100.0
	Total	2658	100.0	100.0	

Table A.7: User Data Operator

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Data Operator	2366	89.0	89.0	89.0
	Data Operator	292	11.0	11.0	100.0
	Total	2658	100.0	100.0	

Table A.8: User Knowledge Worker

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Knowledge Worker	1932	72.7	72.7	72.7
	Knowledge Worker	726	27.3	27.3	100.0

Table A.8: User Knowledge Worker

	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid Not Knowledge Worker	1932	72.7	72.7	72.7
Knowledge Worker	726	27.3	27.3	100.0
Total	2658	100.0	100.0	

Table A.9: User Entertainer

	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid Not Entertainer	1630	61.3	61.3	61.3
Entertainer	1028	38.7	38.7	100.0
Total	2658	100.0	100.0	

Table A.10: User Wrist Watch

	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid Not Available	13	0.5	0.5	0.5
Digital Watch	311	11.7	11.7	12.2
Analog Watch	1000	37.6	37.6	49.8
No Watch	1334	50.2	50.2	100.0
Total	2658	100.0	100.0	

Table A.11: User Remember Faces

	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid Very Well	1469	55.3	55.3	55.3
Sometimes	1056	39.7	39.7	95.0
Not Exactly	133	5.0	5.0	100.0
Total	2658	100.0	100.0	

Table A.12: User Remember Names

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Available	1	0.0	0.0	0.0
	Very Well	657	24.7	24.7	24.8
	Sometimes	1557	58.6	58.6	83.3
	Not Exactly	443	16.7	16.7	100.0
	Total	2658	100.0	100.0	

Table A.13: User Remember Numbers

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Available	1	0.0	0.0	0.0
	Very Well	893	33.6	33.6	33.6
	Sometimes	1469	55.3	55.3	88.9
	Not Exactly	295	11.1	11.1	100.0
	Total	2658	100.0	100.0	

Table A.14: User Mobile Phone

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Functionality	1002	37.7	37.7	37.7
	Aesthetics	171	6.4	6.4	44.1
	Complete	1485	55.9	55.9	100.0
	Total	2658	100.0	100.0	

Table A.15: User Real Desktop

		<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
Valid	Not Available	1	0.0	0.0	0.0
	Organized	1468	55.2	55.2	55.3
	Untidy	1189	44.7	44.7	100.0
	Total	2658	100.0	100.0	

Table A.16: User Transmission

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Manual	1607	60.5	60.5	60.5
	Automatic	1050	39.5	39.5	100.0
	Total	2658	100.0	100.0	

Table A.17: User Form vs. Function

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Function	1567	59.0	59.0	59.0
	Form	1090	41.0	41.0	100.0
	Total	2658	100.0	100.0	

Table A.18: User New Features

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	3	0.1	0.1	0.1
	Shy	225	8.5	8.5	8.6
	Confident	840	31.6	31.6	40.2
	Interested	1590	59.8	59.8	100.0
	Total	2658	100.0	100.0	

Table A.19: Interface Logo Position

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	5	0.2	0.2	0.2
	Left	2073	78.0	78.0	78.2
	Center	301	11.3	11.3	89.5
	Right	279	10.5	10.5	100.0
	Total	2658	100.0	100.0	

Table A.20: Interface Warnings

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Pop-up	210	7.9	7.9	7.9
	On Form	2447	92.1	92.1	100.0
	Total	2658	100.0	100.0	

Table A.21: Interface Forecolor

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	2	0.1	0.1	0.1
	Black	452	17.0	17.0	17.1
	White	2204	82.9	82.9	100.0
	Total	2658	100.0	100.0	

Table A.22: Interface Paragraphs

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Aligned	1646	61.9	61.9	62.0
	Justified	1011	38.0	38.0	100.0
	Total	2658	100.0	100.0	

Table A.23: Interface Progress Bars

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	2	0.1	0.1	0.1
	Only Text	179	6.7	6.7	6.8
	Progress Bar	2477	93.2	93.2	100.0
	Total	2658	100.0	100.0	

Table A.24: Interface Label Position

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	2	0.1	0.1	0.1
	On The Top	708	26.6	26.6	26.7
	On The Left	1948	73.3	73.3	100.0
	Total	2658	100.0	100.0	

Table A.25: Interface Windows

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	2	0.1	0.1	0.1
	Windows	761	28.6	28.6	28.7
	One Screen	1895	71.3	71.3	100.0
	Total	2658	100.0	100.0	

Table A.26: Interface Form Icons

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Right	1770	66.6	66.6	66.6
	Left	888	33.4	33.4	100.0
	Total	2658	100.0	100.0	

Table A.27: Interface Start Menu

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Bottom	2099	79.0	79.0	79.0
	Left	99	3.7	3.7	82.7
	Top	403	15.2	15.2	97.9
	Right	56	2.1	2.1	100.0
	Total	2658	100.0	100.0	

Table A.28: Interface Human or Robot Operator

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Human	2235	84.1	84.1	84.1
	Robot	423	15.9	15.9	100.0
	Total	2658	100.0	100.0	

Table A.29: Interface Icon Position

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Top	583	21.9	21.9	22.0
	Left	1871	70.4	70.4	92.4
	Right	164	6.2	6.2	98.5
	Bottom	39	1.5	1.5	100.0
	Total	2658	100.0	100.0	

Table A.30: Interface Widgets

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	I Love	1215	45.7	45.7	45.7
	I Hate	1443	54.3	54.3	100.0
	Total	2658	100.0	100.0	

Table A.31: Interface Menu Icons

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Important	2339	88.0	88.0	88.0
	Not Important	318	12.0	12.0	100.0
	Total	2658	100.0	100.0	

Table A.32: Interface Computer Desktop

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Organized	2178	81.9	81.9	81.9
	Untidy	480	18.1	18.1	100.0

Table A.32: Interface Computer Desktop

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Organized	2178	81.9	81.9	81.9
	Untidy	480	18.1	18.1	100.0
	Total	2658	100.0	100.0	

Table A.33: Interface Backcolor

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Black	1199	45.1	45.1	45.1
	White	1458	54.9	54.9	100.0
	Total	2658	100.0	100.0	

Table A.34: Interface Menus

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Available	1	0.0	0.0	0.0
	Horizontal	1808	68.0	68.0	68.1
	Vertical	849	31.9	31.9	100.0
	Total	2658	100.0	100.0	

Table A.35: Interface Wizards

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Always	274	10.3	10.3	10.3
	Occasionally	1795	67.5	67.5	77.8
	Never	589	22.2	22.2	100.0
	Total	2658	100.0	100.0	

B. CROSS TABLES

B.1. User Country Class Cross Tables

Table A.36: Crosstab (Interface Logo Position * User Country Class)

		User Country Class				
		<i>Domestic</i>	<i>Western World</i>	<i>Far East</i>	<i>Middle East</i>	<i>Total</i>
Interface Not Available	Count	0	4	0	1	5
	% within User Country Class	0.0%	0.2%	0.0%	0.7%	0.2%
Left	Count	242	1705	19	107	2073
	% within User Country Class	62.5%	81.4%	65.5%	72.3%	78.0%
Center	Count	78	199	5	19	301
	% within User Country Class	20.2%	9.5%	17.2%	12.8%	11.3%
Right	Count	67	186	5	21	279
	% within User Country Class	17.3%	8.9%	17.2%	14.2%	10.5%
Total	Count	387	2094	29	148	2658
	% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.37: Chi-Square Tests (Interface Logo Position * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	78.351 ^a	9	0.000
Likelihood Ratio	71.465	9	0.000
Linear-by-Linear Association	7.494	1	0.006
N of Valid Cases	2658		

a. 6 cells (37.5%) have expected count less than 5. The minimum expected count is .05.

Table A.38: Symmetric Measures (Interface Logo Position * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.172	0.000
	Cramer's V	0.099	0.000
	N of Valid Cases	2658	

Table A.39: Crosstab (Interface Warnings * User Country Class)

		User Country Class					
		Domestic	Western World	Far East	Middle East	Total	
Interface Warnings	Not Available	Count	0	1	0	0	1
		% within User Country Class	0.0%	0.0%	0.0%	0.0%	0.0%
	Pop-up	Count	114	88	1	7	210
		% within User Country Class	29.5%	4.2%	3.4%	4.7%	7.9%
	On Form	Count	273	2005	28	141	2447
		% within User Country Class	70.5%	95.7%	96.6%	95.3%	92.1%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%
					%		%

Table A.40: Chi-Square Tests (Interface Warnings * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.895E2	6	0.000
Likelihood Ratio	205.048	6	0.000
Linear-by-Linear Association	118.482	1	0.000
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .01.

Table A.41: Symmetric Measures (Interface Warnings * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.330	0.000
	Cramer's V	0.233	0.000
	N of Valid Cases	2658	

Table A.42: Crosstab (Interface Forecolor * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface Forecolor	Not Available	Count	0	2	0	0	2
		% within User Country Class	0.0%	0.1%	0.0%	0.0%	0.1%
	Black	Count	101	333	3	15	452
		% within User Country Class	26.1%	15.9%	10.3%	10.1%	17.0%
	White	Count	286	1759	26	133	2204
		% within User Country Class	73.9%	84.0%	89.7%	89.9%	82.9%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.43: Chi-Square Tests (Interface Forecolor * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	30.827 ^a	6	0.000
Likelihood Ratio	29.550	6	0.000
Linear-by-Linear Association	22.752	1	0.000
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .02.

Table A.44: Symmetric Measures (Interface Forecolor * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.108	0.000
	Cramer's V	0.076	0.000
	N of Valid Cases	2658	

Table A.45: Crosstab (Interface Paragraphs * User Country Class)

		User Country Class					
			Western Domestic	Far World	Middle East	Total	
Interface Paragraphs	Not Available	Count	1	0	0	0	1
		% within User Country Class	0.3%	0.0%	0.0%	0.0%	0.0%
	Aligned	Count	138	1400	20	88	1646
		% within User Country Class	35.7%	66.9%	69.0%	59.5%	61.9%
	Justified	Count	248	694	9	60	1011
		% within User Country Class	64.1%	33.1%	31.0%	40.5%	38.0%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.46: Chi-Square Tests (Interface Paragraphs * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.404E2	6	0.000
Likelihood Ratio	134.770	6	0.000
Linear-by-Linear Association	37.477	1	0.000
N of Valid Cases	2658		

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .01.

Table A.47: Symmetric Measures (Interface Paragraphs * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.230	0.000
	Cramer's V	0.163	0.000
	N of Valid Cases	2658	

Table A.48: Crosstab (Interface Progress Bars * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface Progress Bars	Not Available	Count	0	1	1	0	2
		% within User Country Class	0.0%	0.0%	3.4%	0.0%	0.1%
	Only Text	Count	18	148	4	9	179
		% within User Country Class	4.7%	7.1%	13.8%	6.1%	6.7%
	Progress Bar	Count	369	1945	24	139	2477
		% within User Country Class	95.3%	92.9%	82.8%	93.9%	93.2%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.49: Chi-Square Tests (Interface Progress Bars * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	50.103 ^a	6	0.000
Likelihood Ratio	12.193	6	0.058
Linear-by-Linear Association	1.596	1	0.206
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .02.

Table A.50: Symmetric Measures (Interface Progress Bars * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.137	0.000
	Cramer's V	0.097	0.000
	N of Valid Cases	2658	

Table A.51: Crosstab (Interface Label Position * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface Label Position	Not Available	Count	0	2	0	0	2
		% within User Country Class	0.0%	0.1%	0.0%	0.0%	0.1%
	On The Top	Count	114	548	5	41	708
		% within User Country Class	29.5%	26.2%	17.2%	27.7%	26.6%
	On The Left	Count	273	1544	24	107	1948
		% within User Country Class	70.5%	73.7%	82.8%	72.3%	73.3%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.52: Chi-Square Tests (Interface Label Position * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.720 ^a	6	0.715
Likelihood Ratio	4.226	6	0.646
Linear-by-Linear Association	0.543	1	0.461
N of Valid Cases	2658		

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .02.

Table A.53: Symmetric Measures (Interface Label Position * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.037	0.715
	Cramer's V	0.026	0.715
	N of Valid Cases	2658	

Table A.54: Crosstab (Interface Windows * User Country Class)

			User Country Class				
			Western Domestic	Far World	Middle East	Middle East	Total
Interface Windows	Not Available	Count	1	1	0	0	2
		% within User Country Class	0.3%	0.0%	0.0%	0.0%	0.1%
	Windows	Count	110	602	6	43	761
		% within User Country Class	28.4%	28.7%	20.7%	29.1%	28.6%
	One Screen	Count	276	1491	23	105	1895
		% within User Country Class	71.3%	71.2%	79.3%	70.9%	71.3%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.55: Chi-Square Tests (Interface Windows * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.999 ^a	6	0.809
Likelihood Ratio	2.548	6	0.863
Linear-by-Linear Association	0.022	1	0.881
N of Valid Cases	2658		

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .02.

Table A.56: Symmetric Measures (Interface Windows * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.034	0.809
	Cramer's V	0.024	0.809
	N of Valid Cases	2658	

Table A.57: Crosstab (Interface Form Icons * User Country Class)

		User Country Class				
		Domestic	Western World	Far East	Middle East	Total
Interface Form Icons	Right Count	333	1317	22	98	1770
	% within User Country Class	86.0%	62.9%	75.9%	66.2%	66.6%
	Left Count	54	777	7	50	888
	% within User Country Class	14.0%	37.1%	24.1%	33.8%	33.4%
	Total Count	387	2094	29	148	2658
	% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.58: Chi-Square Tests (Interface Form Icons * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	79.839 ^a	3	0.000
Likelihood Ratio	90.255	3	0.000
Linear-by-Linear Association	24.256	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 9.69.

Table A.59: Symmetric Measures (Interface Form Icons * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.173	0.000
	Cramer's V	0.173	0.000
	N of Valid Cases	2658	

Table A.60: Crosstab (Interface Start Menu * User Country Class)

		User Country Class					
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface	Not	Count	0	1	0	0	1
Start Menu	Available	% within					
		User	0.0%	0.0%	0.0%	0.0%	0.0%
		Country					
		Class					
	Bottom	Count	347	1612	22	118	2099
		% within					
		User	89.7%	77.0%	75.9%	79.7%	79.0%
		Country					
		Class					
	Left	Count	13	84	0	2	99
		% within					
		User	3.4%	4.0%	.0%	1.4%	3.7%
		Country					
		Class					
	Top	Count	14	359	5	25	403
		% within					
		User	3.6%	17.1%	17.2%	16.9%	15.2%
		Country					
		Class					
	Right	Count	13	38	2	3	56
		% within					
		User	3.4%	1.8%	6.9%	2.0%	2.1%
		Country					
		Class					
	Total	Count	387	2094	29	148	2658
		% within					
		User	100.0%	100.0%	100.0%	100.0%	100.0%
		Country					
		Class					

Table A.61: Chi-Square Tests (Interface Start Menu * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	57.598 ^a	12	0.000
Likelihood Ratio	72.764	12	0.000
Linear-by-Linear Association	10.197	1	0.001
N of Valid Cases	2658		

a. 8 cells (40.0%) have expected count less than 5. The minimum expected count is .01.

Table A.62: Symmetric Measures (Interface Start Menu * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.147	0.000
	Cramer's V	0.085	0.000
	N of Valid Cases	2658	

Table A.63: Crosstab (Interface Human or Robot Operator * User Country Class)

		User Country Class				
		Domestic	Western World	Far East	Middle East	Total
Interface Human or Robot Operator	Human Count	355	1731	19	130	2235
	% within User Country Class	91.7%	82.7%	65.5%	87.8%	84.1%
	Robot Count	32	363	10	18	423
	% within User Country Class	8.3%	17.3%	34.5%	12.2%	15.9%
	Total Count	387	2094	29	148	2658

Table A.63: Crosstab (Interface Human or Robot Operator * User Country Class)

		User Country Class				
		Domestic	Western World	Far East	Middle East	Total
Interface Human or Robot Operator	Human Count	355	1731	19	130	2235
	% within User Country Class	91.7%	82.7%	65.5%	87.8%	84.1%
	Robot Count	32	363	10	18	423
	% within User Country Class	8.3%	17.3%	34.5%	12.2%	15.9%
	Total Count	387	2094	29	148	2658
	% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.64: Chi-Square Tests (Interface Human or Robot Operator * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	29.094 ^a	3	0.000
Likelihood Ratio	30.626	3	0.000
Linear-by-Linear Association	4.227	1	0.040
N of Valid Cases	2658		

a. 1 cells (12.5%) have expected count less than 5. The minimum expected count is 4.62.

Table A.65: Symmetric Measures (Interface Human or Robot Operator * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.105	0.000
	Cramer's V	0.105	0.000
	N of Valid Cases	2658	

Table A.66: Crosstab (Interface Icon Position * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface Icon Position	Not Available	Count	0	1	0	0	1
		% within User Country Class	0.0%	0.0%	0.0%	0.0%	0.0%
	Top	Count	144	403	6	30	583
		% within User Country Class	37.2%	19.2%	20.7%	20.3%	21.9%
	Left	Count	193	1555	17	106	1871
		% within User Country Class	49.9%	74.3%	58.6%	71.6%	70.4%
	Right	Count	31	119	4	10	164
		% within User Country Class	8.0%	5.7%	13.8%	6.8%	6.2%
	Bottom	Count	19	16	2	2	39
		% within User Country Class	4.9%	.8%	6.9%	1.4%	1.5%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.67: Chi-Square Tests (Interface Icon Position * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.266E2	12	0.000
Likelihood Ratio	108.423	12	0.000
Linear-by-Linear Association	4.189	1	0.041
N of Valid Cases	2658		

a. 7 cells (35.0%) have expected count less than 5. The minimum expected count is .01.

Table A.68: Symmetric Measures (Interface Icon Position * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.218	0.000
	Cramer's V	0.126	0.000
N of Valid Cases		2658	

Table A.69: Crosstab (Interface Widgets * User Country Class)

			User Country Class				
			Domestic	Western World	Far East	Middle East	Total
Interface Widgets	I	Count	169	932	17	97	1215
	Love	% within User Country Class	43.7%	44.5%	58.6%	65.5%	45.7%
	I	Count	218	1162	12	51	1443
	Hate	% within User Country Class	56.3%	55.5%	41.4%	34.5%	54.3%
Total		Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.70: Chi-Square Tests (Interface Widgets * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	27.269 ^a	3	0.000
Likelihood Ratio	27.356	3	0.000
Linear-by-Linear Association	19.801	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 13.26.

Table A.71: Symmetric Measures (Interface Widgets * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.101	0.000
	Cramer's V	0.101	0.000
	N of Valid Cases	2658	

Table A.72: Crosstab (Interface Menu Icons * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface Menu Icons	Not Available	Count	0	1	0	0	1
		% within User Country Class	0.0%	0.0%	0.0%	0.0%	0.0%
	Important	Count	356	1823	25	135	2339
		% within User Country Class	92.0%	87.1%	86.2%	91.2%	88.0%
	Not Important	Count	31	270	4	13	318
		% within User Country Class	8.0%	12.9%	13.8%	8.8%	12.0%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.73: Chi-Square Tests (Interface Menu Icons * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.267 ^a	6	0.159
Likelihood Ratio	10.223	6	0.116
Linear-by-Linear Association	0.384	1	0.536
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .01.

Table A.74: Symmetric Measures (Interface Menu Icons * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.059	0.159
	Cramer's V	0.042	0.159
	N of Valid Cases	2658	

Table A.75: Crosstab (Interface Computer Desktop * User Country Class)

		User Country Class					Total
		Domestic	Western World	Far East	Middle East		
Interface Computer Desktop	Organized	Count	293	1729	24	132	2178
		% within User Country Class	75.7%	82.6%	82.8%	89.2%	81.9%
	Untidy	Count	94	365	5	16	480
		% within User Country Class	24.3%	17.4%	17.2%	10.8%	18.1%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.76: Chi-Square Tests (Interface Computer Desktop * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.978 ^a	3	0.001
Likelihood Ratio	15.915	3	0.001
Linear-by-Linear Association	14.080	1	0.000
N of Valid Cases	2658		

Table A.76: Chi-Square Tests (Interface Computer Desktop * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.978 ^a	3	0.001
Likelihood Ratio	15.915	3	0.001
Linear-by-Linear Association	14.080	1	0.000

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 5.24.

Table A.77: Symmetric Measures (Interface Computer Desktop * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.078	0.001
	Cramer's V	0.078	0.001
N of Valid Cases		2658	

Table A.78: Crosstab (Interface Backcolor * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface	Not	Count	0	1	0	0	1
Backcolor	Available	% within					
		User	0.0%	0.0%	0.0%	0.0%	0.0%
		Country					
		Class					
	Black	Count	184	939	9	67	1199
		% within					
		User	47.5%	44.8%	31.0%	45.3%	45.1%
		Country					
		Class					
	White	Count	203	1154	20	81	1458
		% within					
		User	52.5%	55.1%	69.0%	54.7%	54.9%
		Country					
		Class					
	Total	Count	387	2094	29	148	2658
		% within					
		User	100.0%	100.0%	100.0%	100.0%	100.0%
		Country					
		Class					

Table A.79: Chi-Square Tests (Interface Backcolor * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.570 ^a	6	0.735
Likelihood Ratio	3.853	6	0.697
Linear-by-Linear Association	0.674	1	0.412
N of Valid Cases	2658		

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .01.

Table A.80: Symmetric Measures (Interface Backcolor * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.037	0.735
	Cramer's V	0.026	0.735
	N of Valid Cases	2658	

Table A.81: Crosstab (Interface Menus * User Country Class)

			User Country Class				
			Domestic	Western World	Far East	Middle East	Total
Interface Menus	Not Available	Count	0	1	0	0	1
		% within User Country Class	0.0%	0.0%	0.0%	0.0%	0.0%
	Horizontal	Count	163	1510	21	114	1808
		% within User Country Class	42.1%	72.1%	72.4%	77.0%	68.0%
	Vertical	Count	224	583	8	34	849
		% within User Country Class	57.9%	27.8%	27.6%	23.0%	31.9%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.82: Chi-Square Tests (Interface Menus * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.419E2	6	0.000
Likelihood Ratio	132.919	6	0.000
Linear-by-Linear Association	74.893	1	0.000
N of Valid Cases	2658		

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .01.

Table A.83: Symmetric Measures (Interface Menus * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.231	0.000
	Cramer's V	0.163	0.000
	N of Valid Cases	2658	

Table A.84: Crosstab (Interface Wizards * User Country Class)

			User Country Class				
			Western	Far	Middle		
			Domestic	World	East	East	Total
Interface Wizards	Always	Count	74	179	0	21	274
		% within User Country Class	19.1%	8.5%	0.0%	14.2%	10.3%
	Occasionally	Count	251	1422	21	101	1795
		% within User Country Class	64.9%	67.9%	72.4%	68.2%	67.5%
	Never	Count	62	493	8	26	589
		% within User Country Class	16.0%	23.5%	27.6%	17.6%	22.2%
	Total	Count	387	2094	29	148	2658
		% within User Country Class	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.85: Chi-Square Tests (Interface Wizards * User Country Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	51.356 ^a	6	0.000
Likelihood Ratio	49.335	6	0.000
Linear-by-Linear Association	4.459	1	0.035
N of Valid Cases	2658		

a. 1 cells (8.3%) have expected count less than 5. The minimum expected count is 2.99.

Table A.86: Symmetric Measures (Interface Wizards * User Country Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.139	0.000
	Cramer's V	0.098	0.000
	N of Valid Cases	2658	

B.2. User Gender Cross Tables

Table A.87: Crosstab (Interface Logo Position * User Gender)

		<i>User Gender</i>			
		<i>Male</i>	<i>Female</i>	<i>Total</i>	
Interface Logo Position	Not Available	Count	5	0	5
		% within User Gender	0.2%	0.0%	0.2%
	Left	Count	1810	263	2073
		% within User Gender	79.1%	71.1%	78.0%
	Center	Count	242	59	301
		% within User Gender	10.6%	15.9%	11.3%
	Right	Count	231	48	279
		% within User Gender	10.1%	13.0%	10.5%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.88: Chi-Square Tests (Interface Logo Position * User Gender)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	14.059 ^a	3	0.003
Likelihood Ratio	13.902	3	0.003
Linear-by-Linear Association	9.485	1	0.002
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .70.

Table A.89: Symmetric Measures (Interface Logo Position * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.073	0.003
	Cramer's V	0.073	0.003
	N of Valid Cases	2658	

Table A.90: Crosstab (Interface Warnings * User Gender)

			User Gender		
			Male	Female	Total
Interface Warnings	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Pop-up	Count	146	64	210
		% within User Gender	6.4%	17.3%	7.9%
	On Form	Count	2141	306	2447
		% within User Gender	93.6%	82.7%	92.1%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.91: Chi-Square Tests (Interface Warnings * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	52.289 ^a	2	0.000
Likelihood Ratio	42.440	2	0.000
Linear-by-Linear Association	50.348	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .14.

Table A.92: Symmetric Measures (Interface Warnings * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.140	0.000
	Cramer's V	0.140	0.000
	N of Valid Cases	2658	

Table A.93: Crosstab (Interface Forecolor * User Gender)

			User Gender		
			Male	Female	Total
Interface Forecolor	Not Available	Count	2	0	2
		% within User Gender	0.1%	0.0%	0.1%
	Black	Count	363	89	452
		% within User Gender	15.9%	24.1%	17.0%
	White	Count	1923	281	2204
		% within User Gender	84.0%	75.9%	82.9%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.94: Chi-Square Tests (Interface Forecolor * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.403 ^a	2	0.000
Likelihood Ratio	14.537	2	0.001
Linear-by-Linear Association	14.236	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .28.

Table A.95: Symmetric Measures (Interface Forecolor * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.076	0.000
	Cramer's V	0.076	0.000
	N of Valid Cases	2658	

Table A.96: Crosstab (Interface Paragraphs * User Gender)

			User Gender		
			Male	Female	Total
Interface Paragraphs	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Aligned	Count	1442	204	1646
		% within User Gender	63.0%	55.1%	61.9%
	Justified	Count	845	166	1011
		% within User Gender	36.9%	44.9%	38.0%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.97: Chi-Square Tests (Interface Paragraphs * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.633 ^a	2	0.013
Likelihood Ratio	8.632	2	0.013
Linear-by-Linear Association	8.571	1	0.003
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .14.

Table A.98: Symmetric Measures (Interface Paragraphs * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.057	0.013
	Cramer's V	0.057	0.013
	N of Valid Cases	2658	

Table A.99: Crosstab (Interface Progress Bars * User Gender)

			User Gender		
			Male	Female	Total
Interface Progress Bars	Not Available	Count	2	0	2
		% within User Gender	0.1%	0.0%	0.1%
	Only Text	Count	152	27	179
		% within User Gender	6.6%	7.3%	6.7%
	Progress Bar	Count	2134	343	2477
		% within User Gender	93.3%	92.7%	93.2%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.100: Chi-Square Tests (Interface Progress Bars * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.537 ^a	2	0.765
Likelihood Ratio	0.808	2	0.668
Linear-by-Linear Association	0.111	1	0.739
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .28.

Table A.101: Symmetric Measures (Interface Progress Bars * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.014	0.765
	Cramer's V	0.014	0.765
	N of Valid Cases	2658	

Table A.102: Crosstab (Interface Label Position * User Gender)

			User Gender		
			Male	Female	Total
Interface Label Position	Not Available	Count	2	0	2
		% within User Gender	0.1%	0.0%	0.1%
	On The Top	Count	604	104	708
		% within User Gender	26.4%	28.1%	26.6%
	On The Left	Count	1682	266	1948
		% within User Gender	73.5%	71.9%	73.3%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.103: Chi-Square Tests (Interface Label Position * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.787 ^a	2	0.675
Likelihood Ratio	1.059	2	0.589
Linear-by-Linear Association	0.379	1	0.538
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .28.

Table A.104: Symmetric Measures (Interface Label Position * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.017	0.675
	Cramer's V	0.017	0.675
	N of Valid Cases	2658	

Table A.105: Crosstab (Interface Windows * User Gender)

		User Gender			
		Male	Female	Total	
Interface Windows	Not Available	Count	2	0	2
		% within User Gender	0.1%	0.0%	0.1%
	Windows	Count	665	96	761
		% within User Gender	29.1%	25.9%	28.6%
	One Screen	Count	1621	274	1895
		% within User Gender	70.8%	74.1%	71.3%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.106: Chi-Square Tests (Interface Windows * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.865 ^a	2	0.394
Likelihood Ratio	2.166	2	0.339
Linear-by-Linear Association	1.673	1	0.196
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .28.

Table A.107: Symmetric Measures (Interface Windows * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.026	0.394
	Cramer's V	0.026	0.394
	N of Valid Cases	2658	

Table A.108: Crosstab (Interface Form Icons * User Gender)

			User Gender		
			Male	Female	Total
Interface Form Icons	Right	Count	1500	270	1770
		% within User Gender	65.6%	73.0%	66.6%
	Left	Count	788	100	888
		% within User Gender	34.4%	27.0%	33.4%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.109: Chi-Square Tests (Interface Form Icons * User Gender)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	7.868 ^a	1	0.005		
Continuity Correction ^b	7.539	1	0.006		
Likelihood Ratio	8.112	1	0.004		
Fisher's Exact Test				0.005	0.003
Linear-by-Linear Association	7.865	1	0.005		
N of Valid Cases	2658				

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 123.61.

b. Computed only for a 2x2 table

Table A.110: Symmetric Measures (Interface Form Icons * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.054	0.005
	Cramer's V	0.054	0.005
	N of Valid Cases	2658	

Table A.111: Crosstab (Interface Start Menu * User Gender)

			User Gender		
			Male	Female	Total
Interface Start Menu	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Bottom	Count	1796	303	2099
		% within User Gender	78.5%	81.9%	79.0%
	Left	Count	73	26	99
		% within User Gender	3.2%	7.0%	3.7%
	Top	Count	379	24	403
		% within User Gender	16.6%	6.5%	15.2%
	Right	Count	39	17	56
		% within User Gender	1.7%	4.6%	2.1%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.112: Chi-Square Tests (Interface Start Menu * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	47.175 ^a	4	0.000
Likelihood Ratio	47.481	4	0.000
Linear-by-Linear Association	2.745	1	0.098
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .14.

Table A.113: Symmetric Measures (Interface Start Menu * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.133	0.000
	Cramer's V	0.133	0.000
	N of Valid Cases	2658	

Table A.114: Crosstab (Interface Human or Robot Operator * User Gender)

		User Gender			
		Male	Female	Total	
Interface Human or Robot Operator	Human	Count	1915	320	2235
		% within User Gender	83.7%	86.5%	84.1%
	Robot	Count	373	50	423
		% within User Gender	16.3%	13.5%	15.9%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.115: Chi-Square Tests (Interface Human or Robot Operator * User Gender)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.851 ^a	1	0.174		
Continuity Correction ^b	1.649	1	0.199		
Likelihood Ratio	1.920	1	0.166		
Fisher's Exact Test				0.193	0.098
Linear-by-Linear Association	1.851	1	0.174		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 58.88.

b. Computed only for a 2x2 table

Table A.116: Symmetric Measures (Interface Human or Robot Operator * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.026	0.174
	Cramer's V	0.026	0.174
N of Valid Cases		2658	

Table A.117: Crosstab (Interface Icon Position * User Gender)

		User Gender			
		Male	Female	Total	
Interface Icon Position	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Top	Count	481	102	583
		% within User Gender	21.0%	27.6%	21.9%
	Left	Count	1643	228	1871
		% within User Gender	71.8%	61.6%	70.4%
	Right	Count	137	27	164
		% within User Gender	6.0%	7.3%	6.2%
	Bottom	Count	26	13	39
		% within User Gender	1.1%	3.5%	1.5%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.118: Chi-Square Tests (Interface Icon Position * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	24.229 ^a	4	0.000
Likelihood Ratio	21.254	4	0.000
Linear-by-Linear Association	0.015	1	0.902
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .14.

Table A.119: Symmetric Measures (Interface Icon Position * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.095	0.000
	Cramer's V	0.095	0.000
	N of Valid Cases	2658	

Table A.120: Crosstab (Interface Widgets * User Gender)

		User Gender		
		Male	Female	Total
Interface Widgets I Love	Count	1011	204	1215
	% within User Gender	44.2%	55.1%	45.7%
I Hate	Count	1277	166	1443
	% within User Gender	55.8%	44.9%	54.3%
Total	Count	2288	370	2658
	% within User Gender	100.0%	100.0%	100.0%

Table A.121: Chi-Square Tests (Interface Widgets * User Gender)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	15.383 ^a	1	0.000		
Continuity Correction ^b	14.945	1	0.000		
Likelihood Ratio	15.323	1	0.000		
Fisher's Exact Test				0.000	0.000
Linear-by-Linear Association	15.377	1	0.000		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 169.13.

b. Computed only for a 2x2 table

Table A.122: Symmetric Measures (Interface Widgets * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.076	0.000
	Cramer's V	0.076	0.000
	N of Valid Cases	2658	

Table A.123: Crosstab (Interface Menu Icons * User Gender)

			User Gender		
			Male	Female	Total
Interface Menu Icons	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Important	Count	2015	324	2339
		% within User Gender	88.1%	87.6%	88.0%
	Not Important	Count	272	46	318
		% within User Gender	11.9%	12.4%	12.0%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.124: Chi-Square Tests (Interface Menu Icons * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.250 ^a	2	0.883
Likelihood Ratio	0.387	2	0.824
Linear-by-Linear Association	0.104	1	0.747
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .14.

Table A.125: Symmetric Measures (Interface Menu Icons * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.010	0.883
	Cramer's V	0.010	0.883
	N of Valid Cases	2658	

Table A.126: Crosstab (Interface Computer Desktop * User Gender)

		User Gender		
		Male	Female	Total
Interface Computer Desktop	Organized Count	1874	304	2178
		% within User Gender	81.9%	82.2%
	Untidy Count	414	66	480
		% within User Gender	18.1%	17.8%
	Total Count	2288	370	2658
		% within User Gender	100.0%	100.0%

Table A.127: Chi-Square Tests (Interface Computer Desktop * User Gender)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.014 ^a	1	0.905		
Continuity Correction ^b	0.002	1	0.963		
Likelihood Ratio	0.014	1	0.905		
Fisher's Exact Test				0.942	0.486
Linear-by-Linear Association	0.014	1	0.905		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 66.82.

b. Computed only for a 2x2 table

Table A.128: Symmetric Measures (Interface Computer Desktop * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.002	0.905
	Cramer's V	0.002	0.905
	N of Valid Cases	2658	

Table A.129: Crosstab (Interface Backcolor * User Gender)

			User Gender		
			Male	Female	Total
Interface Backcolor	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Black	Count	1047	152	1199
		% within User Gender	45.8%	41.1%	45.1%
	White	Count	1240	218	1458
		% within User Gender	54.2%	58.9%	54.9%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.130: Chi-Square Tests (Interface Backcolor * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.003 ^a	2	0.223
Likelihood Ratio	3.156	2	0.206
Linear-by-Linear Association	2.912	1	0.088
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .14.

Table A.131: Symmetric Measures (Interface Backcolor * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.034	0.223
	Cramer's V	0.034	0.223
	N of Valid Cases	2658	

Table A.132: Crosstab (Interface Menus * User Gender)

			User Gender		
			Male	Female	Total
Interface Menus	Not Available	Count	1	0	1
		% within User Gender	0.0%	0.0%	0.0%
	Horizontal	Count	1616	192	1808
		% within User Gender	70.6%	51.9%	68.0%
	Vertical	Count	671	178	849
		% within User Gender	29.3%	48.1%	31.9%
	Total	Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.133: Chi-Square Tests (Interface Menus * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	51.773 ^a	2	0.000
Likelihood Ratio	49.185	2	0.000
Linear-by-Linear Association	51.753	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .14.

Table A.134: Symmetric Measures (Interface Menus * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.140	0.000
	Cramer's V	0.140	0.000
N of Valid Cases		2658	

Table A.135: Crosstab (Interface Wizards * User Gender)

			User Gender		
			Male	Female	Total
Interface Wizards	Always	Count	216	58	274
		% within User Gender	9.4%	15.7%	10.3%
	Occasionally	Count	1550	245	1795
		% within User Gender	67.7%	66.2%	67.5%
	Never	Count	522	67	589
		% within User Gender	22.8%	18.1%	22.2%
Total		Count	2288	370	2658
		% within User Gender	100.0%	100.0%	100.0%

Table A.136: Chi-Square Tests (Interface Wizards * User Gender)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.306 ^a	2	0.000
Likelihood Ratio	14.099	2	0.001
Linear-by-Linear Association	12.270	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 38.14.

Table A.137: Symmetric Measures (Interface Wizards * User Gender)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.076	0.000
	Cramer's V	0.076	0.000
	N of Valid Cases	2658	

B.3. User Age Class Cross Tables

Table A.138: Crosstab (Interface Logo Position * User Age Class)

			<i>User Age Class</i>					
			<i>Teenage</i>	<i>Youngster</i>	<i>Young</i>	<i>Mid-Age</i>	<i>Elder</i>	<i>Total</i>
Interface Logo Position	Not Available	Count	0	2	3	0	0	5
		% within User Age Class	0.0%	0.2%	0.3%	0.0%	0.0%	0.2%
	Left	Count	115	717	908	305	28	2073
		% within User Age Class	70.6%	78.4%	77.5%	81.8%	77.8%	78.0%
	Center	Count	36	111	116	35	3	301
		% within User Age Class	22.1%	12.1%	9.9%	9.4%	8.3%	11.3%
	Right	Count	12	85	144	33	5	279
		% within User Age Class	7.4%	9.3%	12.3%	8.8%	13.9%	10.5%
	Total	Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.139: Chi-Square Tests (Interface Logo Position * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	31.871 ^a	12	0.001
Likelihood Ratio	29.532	12	0.003
Linear-by-Linear Association	0.331	1	0.565
N of Valid Cases	2658		

a. 7 cells (35.0%) have expected count less than 5. The minimum expected count is .07.

Table A.140: Symmetric Measures (Interface Logo Position * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.110	0.001
	Cramer's V	0.063	0.001
	N of Valid Cases	2658	

Table A.141: Crosstab (Interface Warnings * User Age Class)

			User Age Class					
						Mid-		
			Teenage	Youngster	Young	Age	Elder	Total
Interface Warnings Available	Not Available	Count	0	1	0	0	0	1
		% within User Age Class	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
	Pop-up	Count	10	66	100	29	5	210
		% within User Age Class	6.1%	7.2%	8.5%	7.8%	13.9%	7.9%
	On Form	Count	153	848	1071	344	31	2447
		% within User Age Class	93.9%	92.7%	91.5%	92.2%	86.1%	92.1%
Total		Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.142: Chi-Square Tests (Interface Warnings * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.623 ^a	8	0.689
Likelihood Ratio	5.605	8	0.691
Linear-by-Linear Association	1.533	1	0.216
N of Valid Cases	2658		

a. 6 cells (40.0%) have expected count less than 5. The minimum expected count is .01.

Table A.143: Symmetric Measures (Interface Warnings * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.046	0.689
	Cramer's V	0.033	0.689
	N of Valid Cases	2658	

Table A.144: Crosstab (Interface Forecolor * User Age Class)

		User Age Class						
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Not Available	Count		0	1	1	0	0	2
	% within User Age Class		0.0%	0.1%	0.1%	0.0%	0.0%	0.1%
Black	Count		29	159	178	81	5	452
	% within User Age Class		17.8%	17.4%	15.2%	21.7%	13.9%	17.0%
White	Count		134	755	992	292	31	2204
	% within User Age Class		82.2%	82.5%	84.7%	78.3%	86.1%	82.9%
Total	Count		163	915	1171	373	36	2658
	% within User Age Class		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.145: Chi-Square Tests (Interface Forecolor * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.530 ^a	8	0.300
Likelihood Ratio	9.657	8	0.290
Linear-by-Linear Association	0.276	1	0.599
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .03.

Table A.146: Symmetric Measures (Interface Forecolor * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.060	0.300
	Cramer's V	0.042	0.300
	N of Valid Cases	2658	

Table A.147: Crosstab (Interface Paragraphs * User Age Class)

		User Age Class						
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Paragraphs Available	Not	Count	0	1	0	0	0	1
		% within User Age Class	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
Aligned		Count	109	521	718	274	24	1646
		% within User Age Class	66.9%	56.9%	61.3%	73.5%	66.7%	61.9%
Justified		Count	54	393	453	99	12	1011
		% within User Age Class	33.1%	43.0%	38.7%	26.5%	33.3%	38.0%
Total		Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.148: Chi-Square Tests (Interface Paragraphs * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	34.572 ^a	8	0.000
Likelihood Ratio	35.796	8	0.000
Linear-by-Linear Association	12.730	1	0.000
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .01.

Table A.149: Symmetric Measures (Interface Paragraphs * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.114	0.000
	Cramer's V	0.081	0.000
	N of Valid Cases	2658	

Table A.150: Crosstab (Interface Progress Bars * User Age Class)

			User Age Class					
						Mid-		
			Teenage	Youngster	Young	Age	Elder	Total
Interface Progress Bars	Not Available	Count	0	0	1	1	0	2
		% within User Age Class	0.0%	0.0%	0.1%	0.3%	0.0%	0.1%
	Only Text	Count	13	61	78	23	4	179
		% within User Age Class	8.0%	6.7%	6.7%	6.2%	11.1%	6.7%
	Progress Bar	Count	150	854	1092	349	32	2477
		% within User Age Class	92.0%	93.3%	93.3%	93.6%	88.9%	93.2%
Total		Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.151: Chi-Square Tests (Interface Progress Bars * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.393 ^a	8	0.820
Likelihood Ratio	4.305	8	0.829
Linear-by-Linear Association	0.005	1	0.942
N of Valid Cases	2658		

a. 6 cells (40.0%) have expected count less than 5. The minimum expected count is .03.

Table A.152: Symmetric Measures (Interface Progress Bars * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.041	0.820
	Cramer's V	0.029	0.820
	N of Valid Cases	2658	

Table A.153: Crosstab (Interface Label Position * User Age Class)

			User Age Class					
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Label Position	Not Available	Count	0	2	0	0	0	2
		% within User Age Class	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%
	On The Top	Count	43	247	310	101	7	708
		% within User Age Class	26.4%	27.0%	26.5%	27.1%	19.4%	26.6%
	On The Left	Count	120	666	861	272	29	1948
		% within User Age Class	73.6%	72.8%	73.5%	72.9%	80.6%	73.3%
	Total	Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.154: Chi-Square Tests (Interface Label Position * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.905 ^a	8	0.768
Likelihood Ratio	5.426	8	0.711
Linear-by-Linear Association	0.211	1	0.646
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .03.

Table A.155: Symmetric Measures (Interface Label Position * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.043	0.768
	Cramer's V	0.030	0.768
	N of Valid Cases	2658	

Table A.156: Crosstab (Interface Windows * User Age Class)

			User Age Class					
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Not Available	Count		0	1	1	0	0	2
	% within User Age Class		0.0%	0.1%	0.1%	0.0%	0.0%	0.1%
Windows	Count		44	262	323	119	13	761
	% within User Age Class		27.0%	28.6%	27.6%	31.9%	36.1%	28.6%
One Screen	Count		119	652	847	254	23	1895
	% within User Age Class		73.0%	71.3%	72.3%	68.1%	63.9%	71.3%
Total	Count		163	915	1171	373	36	2658
	% within User Age Class		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.157: Chi-Square Tests (Interface Windows * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.343 ^a	8	0.825
Likelihood Ratio	4.677	8	0.792
Linear-by-Linear Association	1.281	1	0.258
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .03.

Table A.158: Symmetric Measures (Interface Windows * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.040	0.825
	Cramer's V	0.029	0.825
	N of Valid Cases	2658	

Table A.159: Crosstab (Interface Form Icons * User Age Class)

		User Age Class					
		Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Form Icons	Right Count	103	585	839	219	24	1770
	% within User Age Class	63.2%	63.9%	71.6%	58.7%	66.7%	66.6%
	Left Count	60	330	332	154	12	888
	% within User Age Class	36.8%	36.1%	28.4%	41.3%	33.3%	33.4%
	Total Count	163	915	1171	373	36	2658
	% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.160: Chi-Square Tests (Interface Form Icons * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	27.617 ^a	4	0.000
Likelihood Ratio	27.605	4	0.000
Linear-by-Linear Association	0.090	1	0.765
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 12.03.

Table A.161: Symmetric Measures (Interface Form Icons * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.102	0.000
	Cramer's V	0.102	0.000
	N of Valid Cases	2658	

Table A.162: Crosstab (Interface Start Menu * User Age Class)

			User Age Class					
			T.	Y.ster	Y.	M.A	E.	Total
Interface Not Available	Count		0	1	0	0	0	1
	% within User Age Class		0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
Bottom	Count		117	703	953	295	31	2099
	% within User Age Class		71.8%	76.8%	81.4%	79.1%	86.1%	79.0%
Left	Count		5	28	44	19	3	99
	% within User Age Class		3.1%	3.1%	3.8%	5.1%	8.3%	3.7%
Top	Count		38	165	147	52	1	403
	% within User Age Class		23.3%	18.0%	12.6%	13.9%	2.8%	15.2%
Right	Count		3	18	27	7	1	56
	% within User Age Class		1.8%	2.0%	2.3%	1.9%	2.8%	2.1%
Total	Count		163	915	1171	373	36	2658
	% within User Age Class		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.163: Chi-Square Tests (Interface Start Menu * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	31.717 ^a	16	0.011
Likelihood Ratio	32.227	16	0.009
Linear-by-Linear Association	9.760	1	0.002
N of Valid Cases	2658		

a. 8 cells (32.0%) have expected count less than 5. The minimum expected count is .01.

Table A.164: Symmetric Measures (Interface Start Menu * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.109	0.011
	Cramer's V	0.055	0.011
	N of Valid Cases	2658	

Table A.165: Crosstab (Interface Human or Robot Operator * User Age Class)

		User Age Class						
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Human or Robot Operator	Human	Count	122	760	989	334	30	2235
		% within User Age Class	74.8%	83.1%	84.5%	89.5%	83.3%	84.1%
	Robot	Count	41	155	182	39	6	423
		% within User Age Class	25.2%	16.9%	15.5%	10.5%	16.7%	15.9%
	Total	Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.166: Chi-Square Tests (Interface Human or Robot Operator * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	19.559 ^a	4	0.001
Likelihood Ratio	19.231	4	0.001
Linear-by-Linear Association	14.244	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 5.73.

Table A.167: Symmetric Measures (Interface Human or Robot Operator * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.086	0.001
	Cramer's V	0.086	0.001
	N of Valid Cases	2658	

Table A.168: Crosstab (Interface Icon Position * User Age Class)

			<i>User Age Class</i>					
			<i>T.</i>	<i>Y.ster</i>	<i>Y.</i>	<i>M.A</i>	<i>E.</i>	<i>Total</i>
Interface Icon Position	Not Available	Count	0	0	1	0	0	1
		% within						
		User Age Class	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	Top	Count	48	177	255	89	14	583
		% within						
		User Age Class	29.4%	19.3%	21.8%	23.9%	38.9%	21.9%
	Left	Count	102	651	838	260	20	1871
		% within						
		User Age Class	62.6%	71.1%	71.6%	69.7%	55.6%	70.4%
	Right	Count	11	69	64	18	2	164
		% within						
		User Age Class	6.7%	7.5%	5.5%	4.8%	5.6%	6.2%
	Bottom	Count	2	18	13	6	0	39
		% within						
		User Age Class	1.2%	2.0%	1.1%	1.6%	.0%	1.5%
	Total	Count	163	915	1171	373	36	2658
		% within						
		User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.169: Chi-Square Tests (Interface Icon Position * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	24.645 ^a	16	0.076
Likelihood Ratio	24.367	16	0.082
Linear-by-Linear Association	3.800	1	0.051
N of Valid Cases	2658		

a. 8 cells (32.0%) have expected count less than 5. The minimum expected count is .01.

Table A.170: Symmetric Measures (Interface Icon Position * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.096	0.076
	Cramer's V	0.048	0.076
	N of Valid Cases	2658	

Table A.171: Crosstab (Interface Widgets * User Age Class)

		User Age Class						
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Widgets	I Love	Count	82	409	526	180	18	1215
		% within User Age Class	50.3%	44.7%	44.9%	48.3%	50.0%	45.7%
	I Hate	Count	81	506	645	193	18	1443
		% within User Age Class	49.7%	55.3%	55.1%	51.7%	50.0%	54.3%
	Total	Count	163	915	1171	373	36	2658
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.172: Chi-Square Tests (Interface Widgets * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.302 ^a	4	0.509
Likelihood Ratio	3.294	4	0.510
Linear-by-Linear Association	0.103	1	0.749
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 16.46.

Table A.173: Symmetric Measures (Interface Widgets * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.035	0.509
	Cramer's V	0.035	0.509
	N of Valid Cases	2658	

Table A.174: Crosstab (Interface Menu Icons * User Age Class)

			User Age Class					
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Menu Icons	Not Available	Count	0	1	0	0	0	1
		% within User Age Class	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
		Important	Count	149	835	1029	298	28
		% within User Age Class	91.4%	91.3%	87.9%	79.9%	77.8%	88.0%
	Not Important	Count	14	79	142	75	8	318
		% within User Age Class	8.6%	8.6%	12.1%	20.1%	22.2%	12.0%
		Total	Count	163	915	1171	373	36
		% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.175: Chi-Square Tests (Interface Menu Icons * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	40.339 ^a	8	0.000
Likelihood Ratio	37.556	8	0.000
Linear-by-Linear Association	32.711	1	0.000
N of Valid Cases	2658		

a. 6 cells (40.0%) have expected count less than 5. The minimum expected count is .01.

Table A.176: Symmetric Measures (Interface Menu Icons * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.123	0.000
	Cramer's V	0.087	0.000
	N of Valid Cases	2658	

Table A.177: Crosstab (Interface Computer Desktop * User Age Class)

		User Age Class						
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Computer Desktop	Organized	Count	143	782	931	293	29	2178
		%						
		within						
		User	87.7%	85.5%	79.5%	78.6%	80.6%	81.9%
		Age						
		Class						
	Untidy	Count	20	133	240	80	7	480
		%						
		within						
	User	12.3%	14.5%	20.5%	21.4%	19.4%	18.1%	
	Age							
	Class							
Total	Count	163	915	1171	373	36	2658	
	%							
	within							
	User	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
	Age							
	Class							

Table A.178: Chi-Square Tests (Interface Computer Desktop * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	19.007 ^a	4	0.001
Likelihood Ratio	19.531	4	0.001
Linear-by-Linear Association	15.344	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 6.50.

Table A.179: Symmetric Measures (Interface Computer Desktop * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.085	0.001
	Cramer's V	0.085	0.001
	N of Valid Cases	2658	

Table A.180: Crosstab (Interface Backcolor * User Age Class)

		User Age Class						
			Teenage	Youngster	Young	Mid-Age	Elder	Total
Interface Backcolor Available	Not	Count	0	1	0	0	0	1
		%						
		within User Age Class	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
	Black	Count	67	435	533	152	12	1199
		%						
		within User Age Class	41.1%	47.5%	45.5%	40.8%	33.3%	45.1%
	White	Count	96	479	638	221	24	1458
		%						
		within User Age Class	58.9%	52.3%	54.5%	59.2%	66.7%	54.9%
	Total	Count	163	915	1171	373	36	2658
	%							
	within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Table A.181: Chi-Square Tests (Interface Backcolor * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10.195 ^a	8	0.252
Likelihood Ratio	10.496	8	0.232
Linear-by-Linear Association	2.722	1	0.099
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .01.

Table A.182: Symmetric Measures (Interface Backcolor * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.062	0.252
	Cramer's V	0.044	0.252
	N of Valid Cases	2658	

Table A.183: Crosstab (Interface Menus * User Age Class)

		User Age Class						
		Teenage	Youngster	Young	Mid-Age	Elder	Total	
Interface Not Available	Count	0	1	0	0	0	1	
	% within User Age Class	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	
	Horizontal	Count	123	652	783	233	17	1808
	% within User Age Class	75.5%	71.3%	66.9%	62.5%	47.2%	68.0%	
	Vertical	Count	40	262	388	140	19	849
	% within User Age Class	24.5%	28.6%	33.1%	37.5%	52.8%	31.9%	
	Total	Count	163	915	1171	373	36	2658
	% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Table A.184: Chi-Square Tests (Interface Menus * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	23.846 ^a	8	0.002
Likelihood Ratio	23.678	8	0.003
Linear-by-Linear Association	20.553	1	0.000
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .01.

Table A.185: Symmetric Measures (Interface Menus * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.095	0.002
	Cramer's V	0.067	0.002
	N of Valid Cases	2658	

Table A.186: Crosstab (Interface Wizards * User Age Class)

		User Age Class					
					Mid-		
		Teenage	Youngster	Young	Age	Elder	Total
Interface Always Wizards	Count	23	113	104	28	6	274
	% within User Age Class	14.1%	12.3%	8.9%	7.5%	16.7%	10.3%
Occasionally	Count	115	568	826	263	23	1795
	% within User Age Class	70.6%	62.1%	70.5%	70.5%	63.9%	67.5%
Never	Count	25	234	241	82	7	589
	% within User Age Class	15.3%	25.6%	20.6%	22.0%	19.4%	22.2%
Total	Count	163	915	1171	373	36	2658
	% within User Age Class	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.187: Chi-Square Tests (Interface Wizards * User Age Class)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	28.609 ^a	8	0.000
Likelihood Ratio	28.645	8	0.000
Linear-by-Linear Association	1.119	1	0.290
N of Valid Cases	2658		

a. 1 cells (6.7%) have expected count less than 5. The minimum expected count is 3.71.

Table A.188: Symmetric Measures (Interface Wizards * User Age Class)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.104	0.000
	Cramer's V	0.073	0.000
	N of Valid Cases	2658	

B.4. User Left Brained or Right Brained Cross Tables

Table A.189: Crosstab (Interface Logo Position * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
		Counter- Clockwise	Clockwise	Total	
Interface Logo Not Position Available	Left	Count	5	0	5
		% within User Left Brained or Right Brained	0.2%	0.0%	0.2%
	Center	Count	1691	382	2073
		% within User Left Brained or Right Brained	77.9%	78.3%	78.0%
	Right	Count	254	47	301
		% within User Left Brained or Right Brained	11.7%	9.6%	11.3%
	Total	Count	220	59	279
		% within User Left Brained or Right Brained	10.1%	12.1%	10.5%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.190: Chi-Square Tests (Interface Logo Position * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.090 ^a	3	0.252
Likelihood Ratio	5.005	3	0.171
Linear-by-Linear Association	0.392	1	0.531
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .92.

Table A.191: Symmetric Measures (Interface Logo Position * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.039	0.252
	Cramer's V	0.039	0.252
	N of Valid Cases	2658	

Table A.192: Crosstab (Interface Warnings * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
			Counter- Clockwise	Clockwise	Total
Interface Warnings	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Pop-up	Count	166	44	210
		% within User Left Brained or Right Brained	7.6%	9.0%	7.9%
	On Form	Count	2003	444	2447
		% within User Left Brained or Right Brained	92.3%	91.0%	92.1%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.193: Chi-Square Tests (Interface Warnings * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	1.242 ^a	2	0.537
Likelihood Ratio	1.391	2	0.499
Linear-by-Linear Association	0.872	1	0.350
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.194: Symmetric Measures (Interface Warnings * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.022	0.537
	Cramer's V	0.022	0.537
N of Valid Cases		2658	

Table A.195: Crosstab (Interface Forecolor * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
			Counter- Clockwise	Clockwise	Total
Interface Forecolor	Not Available	Count	2	0	2
		% within User Left Brained or Right Brained	0.1%	0.0%	0.1%
	Black	Count	373	79	452
		% within User Left Brained or Right Brained	17.2%	16.2%	17.0%
	White	Count	1795	409	2204
		% within User Left Brained or Right Brained	82.7%	83.8%	82.9%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.196: Chi-Square Tests (Interface Forecolor * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.742a	2	0.690
Likelihood Ratio	1.106	2	0.575
Linear-by-Linear Association	0.389	1	0.533
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .37.

Table A.197: Symmetric Measures (Interface Forecolor * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.017	0.690
	Cramer's V	0.017	0.690
	N of Valid Cases	2658	

Table A.198: Crosstab (Interface Paragraphs * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
		Counter-Clockwise			Total
Interface Paragraphs	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Aligned	Count	1353	293	1646
		% within User Left Brained or Right Brained	62.4%	60.0%	61.9%
	Justified	Count	816	195	1011
		% within User Left Brained or Right Brained	37.6%	40.0%	38.0%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.199: Chi-Square Tests (Interface Paragraphs * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.149 ^a	2	0.563
Likelihood Ratio	1.325	2	0.516
Linear-by-Linear Association	0.972	1	0.324
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.200: Symmetric Measures (Interface Paragraphs * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.021	0.563
	Cramer's V	0.021	0.563
N of Valid Cases		2658	

Table A.201: Crosstab (Interface Progress Bars * User Left Brained or Right Brained)

			User Left Brained or Right Brained		
			Counter-Clockwise	Clockwise	Total
Interface Progress Bars Available	Not Available	Count	2	0	2
		% within User Left Brained or Right Brained	0.1%	0.0%	0.1%
	Only Text	Count	138	41	179
		% within User Left Brained or Right Brained	6.4%	8.4%	6.7%
	Progress Bar	Count	2030	447	2477
		% within User Left Brained or Right Brained	93.5%	91.6%	93.2%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.202: Chi-Square Tests (Interface Progress Bars * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.080 ^a	2	0.214
Likelihood Ratio	3.302	2	0.192
Linear-by-Linear Association	2.095	1	0.148
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .37.

Table A.203: Symmetric Measures (Interface Progress Bars * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.034	0.214
	Cramer's V	0.034	0.214
	N of Valid Cases	2658	

Table A.204: Crosstab (Interface Label Position * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
		Counter-Clockwise Clockwise Total			
Interface Label Position	Not Available	Count	2	0	2
		% within User Left Brained or Right Brained	0.1%	0.0%	0.1%
	On The Top	Count	582	126	708
		% within User Left Brained or Right Brained	26.8%	25.8%	26.6%
	On The Left	Count	1586	362	1948
		% within User Left Brained or Right Brained	73.1%	74.2%	73.3%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.205: Chi-Square Tests (Interface Label Position * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.664 ^a	2	0.717
Likelihood Ratio	1.027	2	0.598
Linear-by-Linear Association	0.283	1	0.595
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .37.

Table A.206: Symmetric Measures (Interface Label Position * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.016	0.717
	Cramer's V	0.016	0.717
	N of Valid Cases	2658	

Table A.207: Crosstab (Interface Windows * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
			Counter- Clockwise	Clockwise	Total
Interface Windows	Not Available	Count	2	0	2
		% within User Left Brained or Right Brained	0.1%	0.0%	0.1%
	Windows	Count	615	146	761
		% within User Left Brained or Right Brained	28.3%	29.9%	28.6%
	One Screen	Count	1553	342	1895
		% within User Left Brained or Right Brained	71.6%	70.1%	71.3%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.208: Chi-Square Tests (Interface Windows * User Left Brained or Right Brained)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.919 ^a	2	0.632
Likelihood Ratio	1.277	2	0.528
Linear-by-Linear Association	0.374	1	0.541
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .37.

Table A.209: Symmetric Measures (Interface Windows * User Left Brained or Right Brained)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.019	0.632
	Cramer's V	0.019	0.632
	N of Valid Cases	2658	

Table A.210: Crosstab (Interface Form Icons * User Left Brained or Right Brained)

		<i>User Left Brained or Right Brained</i>		
		<i>Counter-Clockwise</i>	<i>Clockwise</i>	<i>Total</i>
Interface Form Icons	Right Count	1468	302	1770
	% within User Left Brained or Right Brained	67.6%	61.9%	66.6%
	Left Count	702	186	888
	% within User Left Brained or Right Brained	32.4%	38.1%	33.4%
	Total Count	2170	488	2658
	% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.211: Chi-Square Tests (Interface Form Icons * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	5.951 ^a	1	0.015		
Continuity Correction ^b	5.695	1	0.017		
Likelihood Ratio	5.854	1	0.016		
Fisher's Exact Test				0.017	0.009
Linear-by-Linear Association	5.949	1	0.015		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 163.03.

b. Computed only for a 2x2 table

Table A.212: Symmetric Measures (Interface Form Icons * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.047	0.015
	Cramer's V	0.047	0.015
N of Valid Cases		2658	

Table A.213: Crosstab (Interface Start Menu * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
		Counter-Clockwise			Total
Interface Start Menu	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Bottom	Count	1731	368	2099
		% within User Left Brained or Right Brained	79.8%	75.4%	79.0%
	Left	Count	79	20	99
		% within User Left Brained or Right Brained	3.6%	4.1%	3.7%
	Top	Count	320	83	403
		% within User Left Brained or Right Brained	14.7%	17.0%	15.2%
	Right	Count	39	17	56
		% within User Left Brained or Right Brained	1.8%	3.5%	2.1%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.214: Chi-Square Tests (Interface Start Menu * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.130 ^a	4	0.087
Likelihood Ratio	7.599	4	0.107
Linear-by-Linear Association	6.038	1	0.014
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .18.

Table A.215: Symmetric Measures (Interface Start Menu * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.087
	Cramer's V	0.055	0.087
	N of Valid Cases	2658	

Table A.216: Crosstab (Interface Human or Robot Operator * User Left Brained or Right Brained)

		User Left Brained or Right Brained		
		Counter- Clockwise	Clockwise	Total
Interface Human or Robot Operator	Human Count	1840	395	2235
	% within User Left Brained or Right Brained	84.8%	80.9%	84.1%
	Robot Count	330	93	423
	% within User Left Brained or Right Brained	15.2%	19.1%	15.9%
	Total Count	2170	488	2658
	% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.217: Chi-Square Tests (Interface Human or Robot Operator * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	4.413 ^a	1	0.036		
Continuity Correction ^b	4.130	1	0.042		
Likelihood Ratio	4.248	1	0.039		
Fisher's Exact Test				0.040	0.023
Linear-by-Linear Association	4.411	1	0.036		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 77.66.

b. Computed only for a 2x2 table

Table A.218: Symmetric Measures (Interface Human or Robot Operator * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.041	0.036
	Cramer's V	0.041	0.036
	N of Valid Cases	2658	

Table A.219: Crosstab (Interface Icon Position * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
		Counter- Clockwise Clockwise Total			
Interface Icon Position	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Top	Count	491	92	583
		% within User Left Brained or Right Brained	22.6%	18.9%	21.9%
	Left	Count	1518	353	1871
		% within User Left Brained or Right Brained	70.0%	72.3%	70.4%
	Right	Count	132	32	164
		% within User Left Brained or Right Brained	6.1%	6.6%	6.2%
	Bottom	Count	28	11	39
		% within User Left Brained or Right Brained	1.3%	2.3%	1.5%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.220: Chi-Square Tests (Interface Icon Position * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.801 ^a	4	0.215
Likelihood Ratio	5.806	4	0.214
Linear-by-Linear Association	4.821	1	0.028
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .18.

Table A.221: Symmetric Measures (Interface Icon Position * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.047	0.215
	Cramer's V	0.047	0.215
	N of Valid Cases	2658	

Table A.222: Crosstab (Interface Widgets * User Left Brained or Right Brained)

		User Left Brained or Right Brained		
		Counter- Clockwise	Clockwise	Total
Interface Widgets	I Love Count	981	234	1215
	% within User Left Brained or Right Brained	45.2%	48.0%	45.7%
	I Hate Count	1189	254	1443
	% within User Left Brained or Right Brained	54.8%	52.0%	54.3%
	Total Count	2170	488	2658
	% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.223: Chi-Square Tests (Interface Widgets * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	1.208 ^a	1	0.272		
Continuity Correction ^b	1.100	1	0.294		
Likelihood Ratio	1.206	1	0.272		
Fisher's Exact Test				0.291	0.147
Linear-by-Linear Association	1.208	1	0.272		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 223.07.

b. Computed only for a 2x2 table

Table A.224: Symmetric Measures (Interface Widgets * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.021	0.272
	Cramer's V	0.021	0.272
	N of Valid Cases	2658	

Table A.225: Crosstab (Interface Menu Icons * User Left Brained or Right Brained)

			User Left Brained or Right Brained		
			Counter-Clockwise	Clockwise	Total
Interface Menu Icons	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Important	Count	1912	427	2339
		% within User Left Brained or Right Brained	88.1%	87.5%	88.0%
	Not Important	Count	257	61	318
		% within User Left Brained or Right Brained	11.8%	12.5%	12.0%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.226: Chi-Square Tests (Interface Menu Icons * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.385 ^a	2	0.825
Likelihood Ratio	0.565	2	0.754
Linear-by-Linear Association	0.186	1	0.666
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.227: Symmetric Measures (Interface Menu Icons * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.012	0.825
	Cramer's V	0.012	0.825
	N of Valid Cases	2658	

Table A.228: Crosstab (Interface Computer Desktop * User Left Brained or Right Brained)

		User Left Brained or Right Brained		
		Counter-Clockwise	Clockwise	Total
Interface Computer Desktop	Organized Count	1780	398	2178
	% within User Left Brained or Right Brained	82.0%	81.6%	81.9%
	Untidy Count	390	90	480
	% within User Left Brained or Right Brained	18.0%	18.4%	18.1%
	Total Count	2170	488	2658
	% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.229: Chi-Square Tests (Interface Computer Desktop * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.060 ^a	1	0.807		
Continuity Correction ^b	0.032	1	0.858		
Likelihood Ratio	0.059	1	0.808		
Fisher's Exact Test				0.795	0.426
Linear-by-Linear Association	0.060	1	0.807		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 88.13.

b. Computed only for a 2x2 table

Table A.230: Symmetric Measures (Interface Computer Desktop * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.005	0.807
	Cramer's V	0.005	0.807
N of Valid Cases		2658	

Table A.231: Crosstab (Interface Wizards * User Left Brained or Right Brained)

			User Left Brained or Right Brained		
			Counter- Clockwise	Clockwise	Total
Interface Wizards	Always	Count	229	45	274
		% within User Left Brained or Right Brained	10.6%	9.2%	10.3%
	Occasionally	Count	1464	331	1795
		% within User Left Brained or Right Brained	67.5%	67.8%	67.5%
	Never	Count	477	112	589
		% within User Left Brained or Right Brained	22.0%	23.0%	22.2%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.232: Chi-Square Tests (Interface Wizards * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.862 ^a	2	0.650
Likelihood Ratio	0.880	2	0.644
Linear-by-Linear Association	0.679	1	0.410
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 50.31.

Table A.233: Symmetric Measures (Interface Wizards * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.018	0.650
	Cramer's V	0.018	0.650
	N of Valid Cases	2658	

Table A.234: Crosstab (Interface Menus * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
			Counter- Clockwise	Clockwise	Total
Interface Menus	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Horizontal	Count	1489	319	1808
		% within User Left Brained or Right Brained	68.6%	65.4%	68.0%
	Vertical	Count	680	169	849
		% within User Left Brained or Right Brained	31.3%	34.6%	31.9%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.235: Chi-Square Tests (Interface Menus * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	2.197 ^a	2	0.333
Likelihood Ratio	2.356	2	0.308
Linear-by-Linear Association	2.039	1	0.153
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.236: Symmetric Measures (Interface Menu * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.029	0.333
	Cramer's V	0.029	0.333
	N of Valid Cases	2658	

Table A.237: Crosstab (Interface Backcolor * User Left Brained or Right Brained)

		User Left Brained or Right Brained			
			Counter- Clockwise	Clockwise	Total
Interface Backcolor	Not Available	Count	1	0	1
		% within User Left Brained or Right Brained	0.0%	0.0%	0.0%
	Black	Count	969	230	1199
		% within User Left Brained or Right Brained	44.7%	47.1%	45.1%
	White	Count	1200	258	1458
		% within User Left Brained or Right Brained	55.3%	52.9%	54.9%
	Total	Count	2170	488	2658
		% within User Left Brained or Right Brained	100.0%	100.0%	100.0%

Table A.238: Chi-Square Tests (Interface Backcolor * User Left Brained or Right Brained)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.196 ^a	2	0.550
Likelihood Ratio	1.375	2	0.503
Linear-by-Linear Association	0.912	1	0.340
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.239: Symmetric Measures (Interface Backcolor * User Left Brained or Right Brained)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.021	0.550
	Cramer's V	0.021	0.550
	N of Valid Cases	2658	

B.5. User Designer Cross Tables

Table A.240: Crosstab (Interface Logo Position * User Designer)

		User Designer			
		Not Designer	Designer	Total	
Interface Logo Position	Not Available	Count	3	2	5
		% within User Designer	0.3%	0.1%	0.2%
	Left	Count	666	1407	2073
		% within User Designer	71.2%	81.7%	78.0%
	Center	Count	135	166	301
		% within User Designer	14.4%	9.6%	11.3%
	Right	Count	131	148	279
		% within User Designer	14.0%	8.6%	10.5%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.241: Chi-Square Tests (Interface Logo Position * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	39.127 ^a	3	0.000
Likelihood Ratio	38.098	3	0.000
Linear-by-Linear Association	33.459	1	0.000
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 1.76.

Table A.242: Symmetric Measures (Interface Logo Position * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.121	0.000
	Cramer's V	0.121	0.000
	N of Valid Cases	2658	

Table A.243: Crosstab (Interface Warnings * User Designer)

		User Designer			
		Not Designer	Designer	Total	
Interface Warnings	Not Available	Count	0	1	1
		% within User Designer	0.0%	0.1%	0.0%
	Pop-up	Count	121	89	210
		% within User Designer	12.9%	5.2%	7.9%
	On Form	Count	814	1633	2447
		% within User Designer	87.1%	94.8%	92.1%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.244: Chi-Square Tests (Interface Warnings * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	50.848 ^a	2	0.000
Likelihood Ratio	48.597	2	0.000
Linear-by-Linear Association	47.939	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .35.

Table A.245: Symmetric Measures (Interface Warnings * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.138	0.000
	Cramer's V	0.138	0.000
	N of Valid Cases	2658	

Table A.246: Crosstab (Interface Forecolor * User Designer)

			User Designer		
			Not Designer	Designer	Total
Interface Forecolor	Not Available	Count	1	1	2
		% within User Designer	0.1%	0.1%	0.1%
	Black	Count	185	267	452
		% within User Designer	19.8%	15.5%	17.0%
	White	Count	749	1455	2204
		% within User Designer	80.1%	84.4%	82.9%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.247: Chi-Square Tests (Interface Forecolor * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.128 ^a	2	0.017
Likelihood Ratio	7.983	2	0.018
Linear-by-Linear Association	8.121	1	0.004
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .70.

Table A.248: Symmetric Measures (Interface Forecolor * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.017
	Cramer's V	0.055	0.017
	N of Valid Cases	2658	

Table A.249: Crosstab (Interface Paragraphs * User Designer)

			User Designer		
			Not		
			Designer	Designer	Total
Interface Paragraphs	Not Available	Count	1	0	1
		% within User Designer	0.1%	0.0%	0.0%
	Aligned	Count	492	1154	1646
		% within User Designer	52.6%	67.0%	61.9%
	Justified	Count	442	569	1011
		% within User Designer	47.3%	33.0%	38.0%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.250: Chi-Square Tests (Interface Paragraphs * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	54.366 ^a	2	0.000
Likelihood Ratio	54.155	2	0.000
Linear-by-Linear Association	51.268	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .35.

Table A.251: Symmetric Measures (Interface Paragraphs * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.143	0.000
	Cramer's V	0.143	0.000
N of Valid Cases		2658	

Table A.252: Crosstab (Interface Progress Bars * User Designer)

		User Designer			
		Not Designer		Total	
		Designer	Designer		
Interface Progress Bars	Not Available	Count	2	0	2
		% within User Designer	0.2%	0.0%	0.1%
	Only Text	Count	72	107	179
		% within User Designer	7.7%	6.2%	6.7%
	Progress Bar	Count	861	1616	2477
		% within User Designer	92.1%	93.8%	93.2%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.253: Chi-Square Tests (Interface Progress Bars * User Designer)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	5.874 ^a	2	0.053
Likelihood Ratio	6.329	2	0.042
Linear-by-Linear Association	3.398	1	0.065
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .70.

Table A.254: Symmetric Measures (Interface Progress Bars * User Designer)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.047	0.053
	Cramer's V	0.047	0.053
	N of Valid Cases	2658	

Table A.255: Crosstab (Interface Label Position * User Designer)

		User Designer			
		Not Designer			
		Designer	Designer	Total	
Interface Label Position	Not Available	Count	1	1	2
		% within User Designer	0.1%	0.1%	0.1%
	On The Top	Count	245	463	708
		% within User Designer	26.2%	26.9%	26.6%
	On The Left	Count	689	1259	1948
		% within User Designer	73.7%	73.1%	73.3%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.256: Chi-Square Tests (Interface Label Position * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.326 ^a	2	0.850
Likelihood Ratio	0.318	2	0.853
Linear-by-Linear Association	0.100	1	0.752
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .70.

Table A.257: Symmetric Measures (Interface Label Position * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.011	0.850
	Cramer's V	0.011	0.850
	N of Valid Cases	2658	

Table A.258: Crosstab (Interface Windows * User Designer)

		<i>User Designer</i>			
			<i>Not Designer</i>	<i>Designer</i>	<i>Total</i>
Interface Windows	Not Available	Count	1	1	2
		% within User Designer	0.1%	0.1%	0.1%
	Windows	Count	264	497	761
		% within User Designer	28.2%	28.8%	28.6%
	One Screen	Count	670	1225	1895
		% within User Designer	71.7%	71.1%	71.3%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.259: Chi-Square Tests (Interface Windows * User Designer)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.298 ^a	2	0.861
Likelihood Ratio	0.290	2	0.865
Linear-by-Linear Association	0.077	1	0.782
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .70.

Table A.260: Symmetric Measures (Interface Windows * User Designer)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.011	0.861
	Cramer's V	0.011	0.861

Table A.260: Symmetric Measures (Interface Windows * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.011	0.861
	Cramer's V	0.011	0.861
	N of Valid Cases	2658	

Table A.261: Crosstab (Interface Form Icons * User Designer)

			User Designer		
			Not		
			Designer	Designer	Total
Interface Form Icons	Right	Count	721	1049	1770
		% within User Designer	77.1%	60.9%	66.6%
	Left	Count	214	674	888
		% within User Designer	22.9%	39.1%	33.4%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.262: Chi-Square Tests (Interface Form Icons * User Designer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	71.764 ^a	1	0.000		
Continuity Correction ^b	71.037	1	0.000		
Likelihood Ratio	74.261	1	0.000		
Fisher's Exact Test				0.000	0.000
Linear-by-Linear Association	71.737	1	0.000		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 312.37.

b. Computed only for a 2x2 table

Table A.263: Symmetric Measures (Interface Form Icons * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.164	0.000
	Cramer's V	0.164	0.000
	N of Valid Cases	2658	

Table A.264: Crosstab (Interface Start Menu * User Designer)

		User Designer			
		Not			
		Designer	Designer	Total	
Interface Start Menu	Not Available	Count	1	0	1
		% within User Designer	0.1%	0.0%	0.0%
	Bottom	Count	771	1328	2099
		% within User Designer	82.5%	77.1%	79.0%
	Left	Count	34	65	99
		% within User Designer	3.6%	3.8%	3.7%
	Top	Count	107	296	403
		% within User Designer	11.4%	17.2%	15.2%
	Right	Count	22	34	56
		% within User Designer	2.4%	2.0%	2.1%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.265: Chi-Square Tests (Interface Start Menu * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	17.663 ^a	4	0.001
Likelihood Ratio	18.494	4	0.001
Linear-by-Linear Association	10.097	1	0.001
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .35.

Table A.266: Symmetric Measures (Interface Start Menu * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.082	0.001
	Cramer's V	0.082	0.001
	N of Valid Cases	2658	

Table A.267: Crosstab (Interface Human or Robot Operator * User Designer)

		User Designer		
		Not Designer	Designer	Total
Interface Human or Robot Operator	Human Count	783	1452	2235
	% within User Designer	83.7%	84.3%	84.1%
	Robot Count	152	271	423
	% within User Designer	16.3%	15.7%	15.9%
	Total Count	935	1723	2658
	% within User Designer	100.0%	100.0%	100.0%

Table A.268: Chi-Square Tests (Interface Human or Robot Operator * User Designer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.126 ^a	1	0.722		
Continuity Correction ^b	0.090	1	0.764		
Likelihood Ratio	0.126	1	0.723		
Fisher's Exact Test				0.739	0.381
Linear-by-Linear Association	0.126	1	0.722		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 148.80.

b. Computed only for a 2x2 table

Table A.269: Symmetric Measures (Interface Human or Robot Operator * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.007	0.722
	Cramer's V	0.007	0.722
N of Valid Cases		2658	

Table A.270: Crosstab (Interface Icon Position * User Designer)

		User Designer			
		Not Designer			
			Designer	Designer	Total
Interface Icon Position	Not Available	Count	0	1	1
		% within User Designer	0.0%	0.1%	0.0%
	Top	Count	250	333	583
		% within User Designer	26.7%	19.3%	21.9%
	Left	Count	594	1277	1871
		% within User Designer	63.5%	74.1%	70.4%
	Right	Count	64	100	164
		% within User Designer	6.8%	5.8%	6.2%
	Bottom	Count	27	12	39
		% within User Designer	2.9%	.7%	1.5%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.271: Chi-Square Tests (Interface Icon Position * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	46.267 ^a	4	0.000
Likelihood Ratio	45.151	4	0.000
Linear-by-Linear Association	0.654	1	0.419
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .35.

Table A.272: Symmetric Measures (Interface Icon Position * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.132	0.000
	Cramer's V	0.132	0.000
	N of Valid Cases	2658	

Table A.273: Crosstab (Interface Widgets * User Designer)

		User Designer		
		Not Designer	Designer	Total
Interface Widgets	I Love Count	419	796	1215
	% within User Designer	44.8%	46.2%	45.7%
	I Hate Count	516	927	1443
	% within User Designer	55.2%	53.8%	54.3%
	Total Count	935	1723	2658
	% within User Designer	100.0%	100.0%	100.0%

Table A.274: Chi-Square Tests (Interface Widgets * User Designer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.469 ^a	1	0.493		
Continuity Correction ^b	0.415	1	0.520		
Likelihood Ratio	0.469	1	0.493		
Fisher's Exact Test				0.514	0.260
Linear-by-Linear Association	0.469	1	0.494		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 427.40.

b. Computed only for a 2x2 table

Table A.275: Symmetric Measures (Interface Widgets * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.013	0.493
	Cramer's V	0.013	0.493
	N of Valid Cases	2658	

Table A.276: Crosstab (Interface Menu Icons * User Designer)

		User Designer			
		Not			
		Designer	Designer	Total	
Interface Menu Icons	Not Available	Count	1	0	1
		% within User Designer	0.1%	0.0%	0.0%
	Important	Count	830	1509	2339
		% within User Designer	88.8%	87.6%	88.0%
	Not Important	Count	104	214	318
		% within User Designer	11.1%	12.4%	12.0%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.277: Chi-Square Tests (Interface Menu Icons * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.793 ^a	2	0.247
Likelihood Ratio	3.049	2	0.218
Linear-by-Linear Association	1.129	1	0.288
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .35.

Table A.278: Symmetric Measures (Interface Menu Icons * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.032	0.247
	Cramer's V	0.032	0.247
	N of Valid Cases	2658	

Table A.279: Crosstab (Interface Computer Desktop * User Designer)

		User Designer		
		Not		
		Designer	Designer	Total
Interface Computer Desktop	Organized Count	734	1444	2178
	% within User Designer	78.5%	83.8%	81.9%
	Untidy Count	201	279	480
	% within User Designer	21.5%	16.2%	18.1%
	Total Count	935	1723	2658
	% within User Designer	100.0%	100.0%	100.0%

Table A.280: Chi-Square Tests (Interface Computer Desktop * User Designer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	11.526 ^a	1	0.001		
Continuity Correction ^b	11.170	1	0.001		
Likelihood Ratio	11.305	1	0.001		
Fisher's Exact Test				0.001	0.000
Linear-by-Linear Association	11.521	1	0.001		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 168.85.

b. Computed only for a 2x2 table

Table A.281: Symmetric Measures (Interface Computer Desktop * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.066	0.001
	Cramer's V	0.066	0.001
	N of Valid Cases	2658	

Table A.282: Crosstab (Interface Backcolor * User Designer)

		User Designer			
			Not		
Interface	Not		Designer	Designer	Total
Backcolor	Available	Count	1	0	1
		% within User Designer	0.1%	0.0%	0.0%
	Black	Count	401	798	1199
		% within User Designer	42.9%	46.3%	45.1%
	White	Count	533	925	1458
		% within User Designer	57.0%	53.7%	54.9%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.283: Chi-Square Tests (Interface Backcolor * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.639 ^a	2	0.098
Likelihood Ratio	4.891	2	0.087
Linear-by-Linear Association	2.518	1	0.113
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .35.

Table A.284: Symmetric Measures (Interface Backcolor * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.042	0.098
	Cramer's V	0.042	0.098
	N of Valid Cases	2658	

Table A.285: Crosstab (Interface Menus * User Designer)

		<i>User Designer</i>			
		<i>Not</i>			
		<i>Designer</i>	<i>Designer</i>	<i>Total</i>	
Interface Menus	Not Available	Count	1	0	1
		% within User Designer	0.1%	0.0%	0.0%
	Horizontal	Count	518	1290	1808
		% within User Designer	55.4%	74.9%	68.0%
	Vertical	Count	416	433	849
		% within User Designer	44.5%	25.1%	31.9%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.286: Chi-Square Tests (Interface Menus * User Designer)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	1.067E2	2	0.000
Likelihood Ratio	105.030	2	0.000
Linear-by-Linear Association	103.033	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .35.

Table A.287: Symmetric Measures (Interface Menus * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.200	0.000
	Cramer's V	0.200	0.000
	N of Valid Cases	2658	

Table A.288: Crosstab (Interface Wizards * User Designer)

			User Designer		
			Not		
			Designer	Designer	Total
Interface Wizards	Always	Count	120	154	274
		% within User Designer	12.8%	8.9%	10.3%
	Occasionally	Count	638	1157	1795
		% within User Designer	68.2%	67.2%	67.5%
	Never	Count	177	412	589
		% within User Designer	18.9%	23.9%	22.2%
	Total	Count	935	1723	2658
		% within User Designer	100.0%	100.0%	100.0%

Table A.289: Chi-Square Tests (Interface Wizards * User Designer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.818 ^a	2	0.000
Likelihood Ratio	15.716	2	0.000
Linear-by-Linear Association	15.372	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 96.38.

Table A.290: Symmetric Measures (Interface Wizards * User Designer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.077	0.000
	Cramer's V	0.077	0.000
	N of Valid Cases	2658	

B.6. User Programmer Cross Tables

Table A.291: Crosstab (Interface Logo Position * User Programmer)

		User Programmer			
		Not Programmer	Programmer	Total	
Interface Logo Position	Not Available	Count	3	2	5
		% within User Programmer	0.2%	0.1%	0.2%
	Left	Count	934	1139	2073
		% within User Programmer	72.6%	83.0%	78.0%
	Center	Count	177	124	301
		% within User Programmer	13.8%	9.0%	11.3%
	Right	Count	172	107	279
		% within User Programmer	13.4%	7.8%	10.5%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.292: Chi-Square Tests (Interface Logo Position * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	42.210 ^a	3	0.000
Likelihood Ratio	42.389	3	0.000
Linear-by-Linear Association	38.318	1	0.000
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 2.42.

Table A.293: Symmetric Measures (Interface Logo Position * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.126	0.000
	Cramer's V	0.126	0.000
	N of Valid Cases	2658	

Table A.294: Crosstab (Interface Warnings * User Programmer)

			User Programmer		
			Not		
			Programmer	Programmer	Total
Interface Warnings	Not Available	Count	0	1	1
		% within User Programmer	0.0%	0.1%	0.0%
	Pop-up	Count	144	66	210
		% within User Programmer	11.2%	4.8%	7.9%
	On Form	Count	1142	1305	2447
		% within User Programmer	88.8%	95.1%	92.1%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.295: Chi-Square Tests (Interface Warnings * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	38.087 ^a	2	0.000
Likelihood Ratio	39.146	2	0.000
Linear-by-Linear Association	34.858	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .48.

Table A.296: Symmetric Measures (Interface Warnings * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.120	0.000
	Cramer's V	0.120	0.000
	N of Valid Cases	2658	

Table A.297: Crosstab (Interface Forecolor * User Programmer)

		User Programmer			
		Not			
		Programmer	Programmer	Total	
Interface Forecolor	Not Available	Count	1	1	2
		% within User Programmer	0.1%	0.1%	0.1%
	Black	Count	238	214	452
		% within User Programmer	18.5%	15.6%	17.0%
	White	Count	1047	1157	2204
		% within User Programmer	81.4%	84.3%	82.9%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.298: Chi-Square Tests (Interface Forecolor * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.986 ^a	2	0.136
Likelihood Ratio	3.984	2	0.136
Linear-by-Linear Association	3.937	1	0.047
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .97.

Table A.299: Symmetric Measures (Interface Forecolor * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.039	0.136
	Cramer's V	0.039	0.136
	N of Valid Cases	2658	

Table A.300: Crosstab (Interface Paragraphs * User Programmer)

		User Programmer			
		Not			
		Programmer	Programmer	Total	
Interface Paragraphs	Not Available	Count	1	0	1
		% within User Programmer	0.1%	0.0%	0.0%
	Aligned	Count	806	840	1646
		% within User Programmer	62.7%	61.2%	61.9%
	Justified	Count	479	532	1011
		% within User Programmer	37.2%	38.8%	38.0%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.301: Chi-Square Tests (Interface Paragraphs * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.700 ^a	2	0.427
Likelihood Ratio	2.085	2	0.353
Linear-by-Linear Association	0.724	1	0.395
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .48.

Table A.302: Symmetric Measures (Interface Paragraphs * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.025	0.427
	Cramer's V	0.025	0.427
	N of Valid Cases	2658	

Table A.303: Crosstab (Interface Progress Bars * User Programmer)

		User Programmer			
		Not		Total	
		Programmer	Programmer		
Interface Progress Bars	Not Available	Count	2	0	2
		% within User Programmer	0.2%	0.0%	0.1%
	Only Text	Count	80	99	179
		% within User Programmer	6.2%	7.2%	6.7%
	Progress Bar	Count	1204	1273	2477
		% within User Programmer	93.6%	92.8%	93.2%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.304: Chi-Square Tests (Interface Progress Bars * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.160 ^a	2	0.206
Likelihood Ratio	3.932	2	0.140
Linear-by-Linear Association	0.473	1	0.492
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .97.

Table A.305: Symmetric Measures (Interface Progress Bars * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.034	0.206
	Cramer's V	0.034	0.206
	N of Valid Cases	2658	

Table A.306: Crosstab (Interface Label Position * User Programmer)

		User Programmer			
		Not Programmer	Programmer	Total	
Interface Label Not Position	Available	Count	1	1	2
		% within User Programmer	0.1%	0.1%	0.1%
On The Top		Count	374	334	708
		% within User Programmer	29.1%	24.3%	26.6%
On The Left		Count	911	1037	1948
		% within User Programmer	70.8%	75.6%	73.3%
Total		Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.307: Chi-Square Tests (Interface Label Position * User Programmer)

	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	7.635 ^a	2	0.022
Likelihood Ratio	7.634	2	0.022
Linear-by-Linear Association	7.570	1	0.006
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .97.

Table A.308: Symmetric Measures (Interface Label Position * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.054	0.022
	Cramer's V	0.054	0.022
	N of Valid Cases	2658	

Table A.309: Crosstab (Interface Windows * User Programmer)

		User Programmer			
		Not		Total	
		Programmer	Programmer		
Interface Windows	Not Available	Count	0	2	2
		% within User Programmer	0.0%	0.1%	0.1%
	Windows	Count	368	393	761
		% within User Programmer	28.6%	28.6%	28.6%
	One Screen	Count	918	977	1895
		% within User Programmer	71.4%	71.2%	71.3%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.310: Chi-Square Tests (Interface Windows * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.878 ^a	2	0.391
Likelihood Ratio	2.648	2	0.266
Linear-by-Linear Association	0.033	1	0.856
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .97.

Table A.311: Symmetric Measures (Interface Windows * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.027	0.391
	Cramer's V	0.027	0.391
	N of Valid Cases	2658	

Table A.312: Crosstab (Interface Form Icons * User Programmer)

		User Programmer		
		Not Programmer	Programmer	Total
Interface Form Icons	Right Count	786	984	1770
	% within User Programmer	61.1%	71.7%	66.6%
	Left Count	500	388	888
	% within User Programmer	38.9%	28.3%	33.4%
	Total Count	1286	1372	2658
	% within User Programmer	100.0%	100.0%	100.0%

Table A.313: Chi-Square Tests (Interface Form Icons * User Programmer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	33.528 ^a	1	0.000		
Continuity Correction ^b	33.053	1	0.000		
Likelihood Ratio	33.576	1	0.000		
Fisher's Exact Test				0.000	0.000
Linear-by-Linear Association	33.515	1	0.000		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 429.63.

b. Computed only for a 2x2 table

Table A.314: Symmetric Measures (Interface Form Icons * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.112	0.000
	Cramer's V	0.112	0.000
	N of Valid Cases	2658	

Table A.315: Crosstab (Interface Start Menu * User Programmer)

		User Programmer			
		Not			
		Programmer	Programmer	Total	
Interface	Not	Count	1	0	1
	Start Menu	Available	% within User Programmer	0.1%	0.0%
	Bottom	Count	1042	1057	2099
		% within User Programmer	81.0%	77.0%	79.0%
	Left	Count	48	51	99
		% within User Programmer	3.7%	3.7%	3.7%
	Top	Count	171	232	403
		% within User Programmer	13.3%	16.9%	15.2%
	Right	Count	24	32	56
		% within User Programmer	1.9%	2.3%	2.1%
Total		Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.316: Chi-Square Tests (Interface Start Menu * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.801 ^a	4	0.066
Likelihood Ratio	9.217	4	0.056
Linear-by-Linear Association	7.460	1	0.006
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .48.

Table A.317: Symmetric Measures (Interface Start Menu * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.058	0.066
	Cramer's V	0.058	0.066
N of Valid Cases		2658	

Table A.318: Crosstab (Interface Human or Robot Operator * User Programmer)

		User Programmer		
		Not Programmer	Programmer	Total
Interface Human or Robot Operator	Human Count	1101	1134	2235
	% within User Programmer	85.6%	82.7%	84.1%
	Robot Count	185	238	423
	% within User Programmer	14.4%	17.3%	15.9%
	Total Count	1286	1372	2658
	% within User Programmer	100.0%	100.0%	100.0%

Table A.319: Chi-Square Tests (Interface Human or Robot Operator * User Programmer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	4.350 ^a	1	0.037		
Continuity Correction ^b	4.131	1	0.042		
Likelihood Ratio	4.362	1	0.037		
Fisher's Exact Test				0.039	0.021
Linear-by-Linear Association	4.348	1	0.037		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 204.66.

b. Computed only for a 2x2 table

Table A.320: Symmetric Measures (Interface Human or Robot Operator * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.040	0.037
	Cramer's V	0.040	0.037
	N of Valid Cases	2658	

Table A.321: Crosstab (Interface Icon Position * User Programmer)

		User Programmer			
		Not			
		Programmer	Programmer	Total	
Interface Icon Position	Not Available	Count	0	1	1
		% within User Programmer	0.0%	0.1%	0.0%
	Top	Count	318	265	583
		% within User Programmer	24.7%	19.3%	21.9%
	Left	Count	847	1024	1871
		% within User Programmer	65.9%	74.6%	70.4%
	Right	Count	90	74	164
		% within User Programmer	7.0%	5.4%	6.2%
	Bottom	Count	31	8	39
		% within User Programmer	2.4%	.6%	1.5%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.322: Chi-Square Tests (Interface Icon Position * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	34.942 ^a	4	0.000
Likelihood Ratio	36.247	4	0.000
Linear-by-Linear Association	0.000	1	0.997
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .48.

Table A.323: Symmetric Measures (Interface Icon Position * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.115	0.000
	Cramer's V	0.115	0.000
	N of Valid Cases	2658	

Table A.324: Crosstab (Interface Widgets * User Programmer)

		User Programmer		
		Not Programmer	Programmer	Total
Interface Widgets	I Count	661	554	1215
	Love % within User Programmer	51.4%	40.4%	45.7%
	I Hate Count	625	818	1443
	% within User Programmer	48.6%	59.6%	54.3%
	Total Count	1286	1372	2658
	% within User Programmer	100.0%	100.0%	100.0%

Table A.325: Chi-Square Tests (Interface Widgets * User Programmer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	32.488 ^a	1	0.000		
Continuity Correction ^b	32.046	1	0.000		
Likelihood Ratio	32.543	1	0.000		
Fisher's Exact Test				0.000	0.000
Linear-by-Linear Association	32.476	1	0.000		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 587.84.

b. Computed only for a 2x2 table

Table A.326: Symmetric Measures (Interface Widgets * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.111	0.000
	Cramer's V	0.111	0.000
	N of Valid Cases	2658	

Table A.327: Crosstab (Interface Menu Icons * User Programmer)

		User Programmer			
		Not		Total	
		Programmer	Programmer		
Interface Menu Icons	Not Available	Count	0	1	1
		% within User Programmer	0.0%	0.1%	0.0%
	Important	Count	1116	1223	2339
		% within User Programmer	86.8%	89.1%	88.0%
	Not Important	Count	170	148	318
		% within User Programmer	13.2%	10.8%	12.0%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.328: Chi-Square Tests (Interface Menu Icons * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.639 ^a	2	0.098
Likelihood Ratio	5.023	2	0.081
Linear-by-Linear Association	3.936	1	0.047
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .48.

Table A.329: Symmetric Measures (Interface Menu Icons * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.042	0.098
	Cramer's V	0.042	0.098
	N of Valid Cases	2658	

Table A.330: Crosstab (Interface Computer Desktop * User Programmer)

		User Programmer		
		Not Programmer	Programmer	Total
Interface Computer Desktop	Organized Count	1085	1093	2178
	% within User Programmer	84.4%	79.7%	81.9%
	Untidy Count	201	279	480
	% within User Programmer	15.6%	20.3%	18.1%
	Total Count	1286	1372	2658
	% within User Programmer	100.0%	100.0%	100.0%

Table A.331: Chi-Square Tests (Interface Computer Desktop * User Programmer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	9.932 ^a	1	0.002		
Continuity Correction ^b	9.617	1	0.002		
Likelihood Ratio	9.978	1	0.002		
Fisher's Exact Test				0.002	0.001
Linear-by-Linear Association	9.929	1	0.002		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 232.23.

b. Computed only for a 2x2 table

Table A.332: Symmetric Measures (Interface Computer Desktop * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.061	0.002
	Cramer's V	0.061	0.002
	N of Valid Cases	2658	

Table A.333: Crosstab (Interface Backcolor * User Programmer)

		User Programmer		
		Not Programmer		Total
Interface Backcolor		Count	Count	Count
Not Available	Not	1	0	1
	Available	0.1%	0.0%	0.0%
Black	Count	600	599	1199
	% within User Programmer	46.7%	43.7%	45.1%
White	Count	685	773	1458
	% within User Programmer	53.3%	56.3%	54.9%
Total	Count	1286	1372	2658
	% within User Programmer	100.0%	100.0%	100.0%

Table A.334: Chi-Square Tests (Interface Backcolor * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.533 ^a	2	0.171
Likelihood Ratio	3.919	2	0.141
Linear-by-Linear Association	2.655	1	0.103
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .48.

Table A.335: Symmetric Measures (Interface Backcolor * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.036	0.171
	Cramer's V	0.036	0.171
N of Valid Cases		2658	

Table A.336: Crosstab (Interface Menus * User Programmer)

		User Programmer			
			Not Programmer	Programmer	Total
Interface Menus	Not Available	Count	1	0	1
		% within User Programmer	0.1%	0.0%	0.0%
	Horizontal	Count	843	965	1808
		% within User Programmer	65.6%	70.3%	68.0%
	Vertical	Count	442	407	849
		% within User Programmer	34.4%	29.7%	31.9%
	Total	Count	1286	1372	2658
		% within User Programmer	100.0%	100.0%	100.0%

Table A.337: Chi-Square Tests (Interface Menus * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.901 ^a	2	0.019
Likelihood Ratio	8.285	2	0.016
Linear-by-Linear Association	6.518	1	0.011
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .48.

Table A.338: Symmetric Measures (Interface Menus * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.019
	Cramer's V	0.055	0.019
	N of Valid Cases	2658	

Table A.339: Crosstab (Interface Wizards * User Programmer)

		User Programmer			
		Not			
		Programmer	Programmer	Total	
Interface Wizards	Always	Count	153	121	274
		% within User Programmer	11.9%	8.8%	10.3%
	Occasionally	Count	821	974	1795
		% within User Programmer	63.8%	71.0%	67.5%
	Never	Count	312	277	589
		% within User Programmer	24.3%	20.2%	22.2%
Total	Count	1286	1372	2658	
	% within User Programmer	100.0%	100.0%	100.0%	

Table A.340: Chi-Square Tests (Interface Wizards * User Programmer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	16.093 ^a	2	0.000
Likelihood Ratio	16.101	2	0.000
Linear-by-Linear Association	0.211	1	0.646
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 132.57.

Table A.341: Symmetric Measures (Interface Wizards * User Programmer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.078	0.000
	Cramer's V	0.078	0.000
	N of Valid Cases	2658	

B.7. User Data Operator Cross Tables

Table A.342: Crosstab (Interface Logo Position * User Data Operator)

			<i>User Data Operator</i>		
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface Logo Position	Not Available	Count	5	0	5
		% within User Data Operator	0.2%	0.0%	0.2%
	Left	Count	1846	227	2073
		% within User Data Operator	78.0%	77.7%	78.0%
	Center	Count	268	33	301
		% within User Data Operator	11.3%	11.3%	11.3%
	Right	Count	247	32	279
		% within User Data Operator	10.4%	11.0%	10.5%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.343: Chi-Square Tests (Interface Logo Position * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.687 ^a	3	0.876
Likelihood Ratio	1.232	3	0.745
Linear-by-Linear Association	0.090	1	0.764
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .55.

Table A.344: Symmetric Measures (Interface Logo Position * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.016	0.876
	Cramer's V	0.016	0.876
	N of Valid Cases	2658	

Table A.345: Crosstab (Interface Warnings * User Data Operator)

			User Data Operator		
			Not Data Operator	Data Operator	Total
Interface Warnings	Not Available	Count	1	0	1
		% within User Data Operator	0.0%	0.0%	0.0%
	Pop-up	Count	170	40	210
		% within User Data Operator	7.2%	13.7%	7.9%
	On Form	Count	2195	252	2447
		% within User Data Operator	92.8%	86.3%	92.1%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.346: Chi-Square Tests (Interface Warnings * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.263 ^a	2	0.000
Likelihood Ratio	13.187	2	0.001
Linear-by-Linear Association	14.483	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .11.

Table A.347: Symmetric Measures (Interface Warnings * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.076	0.000
	Cramer's V	0.076	0.000
N of Valid Cases		2658	

Table A.348: Crosstab (Interface Forecolor * User Data Operator)

		User Data Operator			
			Not Data Operator	Data Operator	Total
Interface Forecolor	Not Available	Count	1	1	2
		% within User Data Operator	0.0%	0.3%	0.1%
	Black	Count	395	57	452
		% within User Data Operator	16.7%	19.5%	17.0%
	White	Count	1970	234	2204
		% within User Data Operator	83.3%	80.1%	82.9%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.349: Chi-Square Tests (Interface Forecolor * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.640 ^a	2	0.098
Likelihood Ratio	3.358	2	0.187
Linear-by-Linear Association	2.123	1	0.145
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .22.

Table A.350: Symmetric Measures (Interface Forecolor * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.042	0.098
	Cramer's V	0.042	0.098
	N of Valid Cases	2658	

Table A.351: Crosstab (Interface Paragraphs * User Data Operator)

			User Data Operator		
			Not Data Operator	Data Operator	Total
Interface Paragraphs	Not Available	Count	0	1	1
		% within User Data Operator	0.0%	0.3%	0.0%
	Aligned	Count	1482	164	1646
		% within User Data Operator	62.6%	56.2%	61.9%
	Justified	Count	884	127	1011
		% within User Data Operator	37.4%	43.5%	38.0%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.352: Chi-Square Tests (Interface Paragraphs * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	12.430 ^a	2	0.002
Likelihood Ratio	8.694	2	0.013
Linear-by-Linear Association	3.683	1	0.055
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .11.

Table A.353: Symmetric Measures (Interface Paragraphs * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.068	0.002
	Cramer's V	0.068	0.002
N of Valid Cases		2658	

Table A.354: Crosstab (Interface Progress Bars * User Data Operator)

		User Data Operator			
			Not Data	Data	
Interface	Not	Count	Operator	Operator	Total
Progress Bars	Available	% within User Data Operator	0.1%	0.0%	0.1%
	Only Text	Count	161	18	179
		% within User Data Operator	6.8%	6.2%	6.7%
Progress Bar	Progress	Count	2203	274	2477
	Bar	% within User Data Operator	93.1%	93.8%	93.2%
Total	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.355: Chi-Square Tests (Interface Progress Bars * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.420 ^a	2	0.811
Likelihood Ratio	0.642	2	0.725
Linear-by-Linear Association	0.259	1	0.611
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .22.

Table A.356: Symmetric Measures (Interface Progress Bars * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.013	0.811
	Cramer's V	0.013	0.811
	N of Valid Cases	2658	

Table A.357: Crosstab (Interface Label Position * User Data Operator)

			<i>User Data Operator</i>		
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface Label Position	Not Available	Count	2	0	2
		% within User Data Operator	0.1%	0.0%	0.1%
	On The Top	Count	626	82	708
		% within User Data Operator	26.5%	28.1%	26.6%
	On The Left	Count	1738	210	1948
		% within User Data Operator	73.5%	71.9%	73.3%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.358: Chi-Square Tests (Interface Label Position * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.588 ^a	2	0.745
Likelihood Ratio	0.803	2	0.669
Linear-by-Linear Association	0.278	1	0.598
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .22.

Table A.359: Symmetric Measures (Interface Label Position * User Data Operator)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.015	0.745
	Cramer's V	0.015	0.745
	N of Valid Cases	2658	

Table A.360: Crosstab (Interface Windows * User Data Operator)

		<i>User Data Operator</i>			
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface Windows	Not Available	Count	2	0	2
		% within User Data Operator	0.1%	0.0%	0.1%
	Windows	Count	674	87	761
		% within User Data Operator	28.5%	29.8%	28.6%
	One Screen	Count	1690	205	1895
		% within User Data Operator	71.4%	70.2%	71.3%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.361: Chi-Square Tests (Interface Windows * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.457 ^a	2	0.796
Likelihood Ratio	0.674	2	0.714
Linear-by-Linear Association	0.163	1	0.686
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .22.

Table A.362: Symmetric Measures (Interface Windows * User Data Operator)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.013	0.796
	Cramer's V	0.013	0.796
	N of Valid Cases	2658	

Table A.363: Crosstab (Interface Form Icons * User Data Operator)

		<i>User Data Operator</i>			
		<i>Not Data Operator</i>	<i>Data Operator</i>	<i>Total</i>	
Interface Form Icons	Right	Count	1557	213	1770
		% within User Data Operator	65.8%	72.9%	66.6%
	Left	Count	809	79	888
		% within User Data Operator	34.2%	27.1%	33.4%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.364: Chi-Square Tests (Interface Form Icons * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>	<i>Exact Sig. (2-sided)</i>	<i>Exact Sig. (1-sided)</i>
Pearson Chi-Square	5.953 ^a	1	0.015		
Continuity Correction ^b	5.636	1	0.018		
Likelihood Ratio	6.144	1	0.013		
Fisher's Exact Test				0.015	0.008
Linear-by-Linear Association	5.950	1	0.015		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 97.55.

b. Computed only for a 2x2 table

Table A.365: Symmetric Measures (Interface Form Icons * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.047	0.015
	Cramer's V	0.047	0.015
	N of Valid Cases	2658	

Table A.366: Crosstab (Interface Start Menu * User Data Operator)

			User Data Operator		
			Not Data	Data	
			Operator	Operator	Total
Interface Start Menu	Not Available	Count	1	0	1
		% within User Data Operator	0.0%	0.0%	0.0%
	Bottom	Count	1870	229	2099
		% within User Data Operator	79.0%	78.4%	79.0%
	Left	Count	86	13	99
		% within User Data Operator	3.6%	4.5%	3.7%
	Top	Count	359	44	403
		% within User Data Operator	15.2%	15.1%	15.2%
	Right	Count	50	6	56
		% within User Data Operator	2.1%	2.1%	2.1%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.367: Chi-Square Tests (Interface Start Menu * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.608 ^a	4	0.962
Likelihood Ratio	0.693	4	0.952
Linear-by-Linear Association	0.009	1	0.926
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .11.

Table A.368: Symmetric Measures (Interface Start Menu * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.015	0.962
	Cramer's V	0.015	0.962
	N of Valid Cases	2658	

Table A.369: Crosstab (Interface Human or Robot Operator * User Data Operator)

		User Data Operator		
		Not Data Operator	Data Operator	Total
Interface Human or Robot Operator	Human Count	1992	243	2235
	% within User Data Operator	84.2%	83.2%	84.1%
	Robot Count	374	49	423
	% within User Data Operator	15.8%	16.8%	15.9%
	Total Count	2366	292	2658
	% within User Data Operator	100.0%	100.0%	100.0%

Table A.370: Chi-Square Tests (Interface Human or Robot Operator * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.184 ^a	1	0.668		
Continuity Correction ^b	0.119	1	0.731		
Likelihood Ratio	0.182	1	0.670		
Fisher's Exact Test				0.672	0.360
Linear-by-Linear Association	0.184	1	0.668		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 46.47.

b. Computed only for a 2x2 table

Table A.371: Symmetric Measures (Interface Human or Robot Operator * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.008	0.668
	Cramer's V	0.008	0.668
	N of Valid Cases	2658	

Table A.372: Crosstab (Interface Icon Position * User Data Operator)

			<i>User Data Operator</i>		
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface Icon Position	Not Available	Count	1	0	1
		% within User Data Operator	0.0%	0.0%	0.0%
	Top	Count	507	76	583
		% within User Data Operator	21.4%	26.0%	21.9%
	Left	Count	1678	193	1871
		% within User Data Operator	70.9%	66.1%	70.4%
	Right	Count	147	17	164
		% within User Data Operator	6.2%	5.8%	6.2%
	Bottom	Count	33	6	39
		% within User Data Operator	1.4%	2.1%	1.5%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.373: Chi-Square Tests (Interface Icon Position * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	4.326 ^a	4	0.364
Likelihood Ratio	4.252	4	0.373
Linear-by-Linear Association	1.029	1	0.310
N of Valid Cases	2658		

a. 3 cells (30.0%) have expected count less than 5. The minimum expected count is .11.

Table A.374: Symmetric Measures (Interface Icon Position * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.040	0.364
	Cramer's V	0.040	0.364
	N of Valid Cases	2658	

Table A.375: Crosstab (Interface Widgets * User Data Operator)

		User Data Operator		
		Not Data Operator	Data Operator	Total
Interface Widgets	I Love Count	1084	131	1215
	% within User Data Operator	45.8%	44.9%	45.7%
	I Hate Count	1282	161	1443
	% within User Data Operator	54.2%	55.1%	54.3%
	Total Count	2366	292	2658
	% within User Data Operator	100.0%	100.0%	100.0%

Table A.376: Chi-Square Tests (Interface Widgets * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.095 ^a	1	0.758		
Continuity Correction ^b	0.061	1	0.806		
Likelihood Ratio	0.095	1	0.758		
Fisher's Exact Test				0.803	0.403
Linear-by-Linear Association	0.095	1	0.758		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 133.48.

b. Computed only for a 2x2 table

Table A.377: Symmetric Measures (Interface Widgets * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.006	0.758
	Cramer's V	0.006	0.758
N of Valid Cases		2658	

Table A.378: Crosstab (Interface Menu Icons * User Data Operator)

			<i>User Data Operator</i>		
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface Menu Icons	Not Available	Count	1	0	1
		% within User Data Operator	0.0%	0.0%	0.0%
	Important	Count	2081	258	2339
		% within User Data Operator	88.0%	88.4%	88.0%
	Not Important	Count	284	34	318
		% within User Data Operator	12.0%	11.6%	12.0%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.379: Chi-Square Tests (Interface Menu Icons * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.156 ^a	2	0.925
Likelihood Ratio	0.266	2	0.876
Linear-by-Linear Association	0.025	1	0.875
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .11.

Table A.380: Symmetric Measures (Interface Menu Icons * User Data Operator)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.008	0.925
	Cramer's V	0.008	0.925
	N of Valid Cases	2658	

Table A.381: Crosstab (Interface Computer Desktop * User Data Operator)

		<i>User Data Operator</i>			
		<i>Not Data Operator</i>	<i>Data Operator</i>	<i>Total</i>	
Interface Computer Desktop	Organized	Count	1956	222	2178
		% within User Data Operator	82.7%	76.0%	81.9%
	Untidy	Count	410	70	480
		% within User Data Operator	17.3%	24.0%	18.1%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.382: Chi-Square Tests (Interface Computer Desktop * User Data Operator)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	7.753 ^a	1	0.005		
Continuity Correction ^b	7.311	1	0.007		
Likelihood Ratio	7.261	1	0.007		
Fisher's Exact Test				0.008	0.004
Linear-by-Linear Association	7.750	1	0.005		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 52.73.

b. Computed only for a 2x2 table

Table A.383: Symmetric Measures (Interface Computer Desktop * User Data Operator)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.054	0.005
	Cramer's V	0.054	0.005
	N of Valid Cases	2658	

Table A.384: Crosstab (Interface Backcolor * User Data Operator)

		<i>User Data Operator</i>			
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface	Not	Count	1	0	1
Backcolor	Available	% within User Data Operator	0.0%	0.0%	0.0%
	Black	Count	1065	134	1199
		% within User Data Operator	45.0%	45.9%	45.1%
	White	Count	1300	158	1458
		% within User Data Operator	54.9%	54.1%	54.9%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.385: Chi-Square Tests (Interface Backcolor * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	0.201 ^a	2	0.904
Likelihood Ratio	0.310	2	0.856
Linear-by-Linear Association	0.066	1	0.798
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .11.

Table A.386: Symmetric Measures (Interface Backcolor * User Data Operator)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.009	0.904
	Cramer's V	0.009	0.904
	N of Valid Cases	2658	

Table A.387: Crosstab (Interface Menus * User Data Operator)

			<i>User Data Operator</i>		
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface	Not	Count	1	0	1
Menus	Available	% within User Data Operator	0.0%	0.0%	0.0%
	Horizontal	Count	1636	172	1808
		% within User Data Operator	69.1%	58.9%	68.0%
	Vertical	Count	729	120	849
		% within User Data Operator	30.8%	41.1%	31.9%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.388: Chi-Square Tests (Interface Menus * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	12.739 ^a	2	0.002
Likelihood Ratio	12.386	2	0.002
Linear-by-Linear Association	12.710	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .11.

Table A.389: Symmetric Measures (Interface Menus * User Data Operator)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.069	0.002
	Cramer's V	0.069	0.002
	N of Valid Cases	2658	

Table A.390: Crosstab (Interface Wizards * User Data Operator)

		<i>User Data Operator</i>			
			<i>Not Data</i>	<i>Data</i>	
			<i>Operator</i>	<i>Operator</i>	<i>Total</i>
Interface Wizards	Always	Count	245	29	274
		% within User Data Operator	10.4%	9.9%	10.3%
	Occasionally	Count	1585	210	1795
		% within User Data Operator	67.0%	71.9%	67.5%
	Never	Count	536	53	589
		% within User Data Operator	22.7%	18.2%	22.2%
	Total	Count	2366	292	2658
		% within User Data Operator	100.0%	100.0%	100.0%

Table A.391: Chi-Square Tests (Interface Wizards * User Data Operator)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	3.359 ^a	2	0.187
Likelihood Ratio	3.481	2	0.175
Linear-by-Linear Association	1.392	1	0.238
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 30.10.

Table A.392: Symmetric Measures (Interface Wizards * User Data Operator)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.036	0.187
	Cramer's V	0.036	0.187
	N of Valid Cases	2658	

B.8. User Knowledge Worker Cross Tables

Table A.393: Crosstab (Interface Logo Position * User Knowledge Worker)

		<i>User Knowledge Worker</i>			
		<i>Not Knowledge Worker</i>		<i>Knowledge Worker</i>	
<i>Interface Logo Position</i>		<i>Count</i>	<i>Worker</i>	<i>Worker</i>	<i>Total</i>
Not Available	Count	4	1	5	
	% within User Knowledge Worker	0.2%	0.1%	0.2%	
Left	Count	1521	552	2073	
	% within User Knowledge Worker	78.7%	76.0%	78.0%	
Center	Count	212	89	301	
	% within User Knowledge Worker	11.0%	12.3%	11.3%	
Right	Count	195	84	279	
	% within User Knowledge Worker	10.1%	11.6%	10.5%	
Total	Count	1932	726	2658	
	% within User Knowledge Worker	100.0%	100.0%	100.0%	

Table A.394: Chi-Square Tests (Interface Logo Position * User Knowledge Worker)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	2.493 ^a	3	0.477
Likelihood Ratio	2.470	3	0.481
Linear-by-Linear Association	2.269	1	0.132
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 1.37.

Table A.395: Symmetric Measures (Interface Logo Position * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.031	0.477
	Cramer's V	0.031	0.477
N of Valid Cases		2658	

Table A.396: Crosstab (Interface Warnings * User Knowledge Worker)

		User Knowledge Worker			
		Not Knowledge Knowledge		Total	
		Worker	Worker		
Interface Warnings	Not Available	Count	1	0	1
		% within User Knowledge Worker	0.1%	0.0%	0.0%
	Pop-up	Count	108	102	210
		% within User Knowledge Worker	5.6%	14.0%	7.9%
	On Form	Count	1823	624	2447
		% within User Knowledge Worker	94.4%	86.0%	92.1%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.397: Chi-Square Tests (Interface Warnings * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	52.227 ^a	2	0.000
Likelihood Ratio	47.453	2	0.000
Linear-by-Linear Association	49.672	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .27.

Table A.398: Symmetric Measures (Interface Warnings * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.140	0.000
	Cramer's V	0.140	0.000
	N of Valid Cases	2658	

Table A.399: Crosstab (Interface Forecolor * User Knowledge Worker)

		User Knowledge Worker			
		Not Knowledge Worker	Knowledge Worker	Total	
Interface Forecolor	Not Available	Count	2	0	2
		% within User Knowledge Worker	0.1%	0.0%	0.1%
	Black	Count	280	172	452
		% within User Knowledge Worker	14.5%	23.7%	17.0%
	White	Count	1650	554	2204
		% within User Knowledge Worker	85.4%	76.3%	82.9%
Total		Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.400: Chi-Square Tests (Interface Forecolor * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	32.274 ^a	2	0.000
Likelihood Ratio	31.170	2	0.000
Linear-by-Linear Association	29.693	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .55.

Table A.401: Symmetric Measures (Interface Forecolor * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.110	0.000
	Cramer's V	0.110	0.000
	N of Valid Cases	2658	

Table A.402: Crosstab (Interface Paragraphs * User Knowledge Worker)

		<i>User Knowledge Worker</i>			
		<i>Not Knowledge Worker</i>		<i>Total</i>	
<i>Interface Paragraphs</i>		<i>Worker</i>	<i>Worker</i>		
Interface Paragraphs	Not Available	Count	0	1	1
		% within User Knowledge Worker	0.0%	0.1%	0.0%
	Aligned	Count	1241	405	1646
		% within User Knowledge Worker	64.2%	55.8%	61.9%
	Justified	Count	691	320	1011
		% within User Knowledge Worker	35.8%	44.1%	38.0%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.403: Chi-Square Tests (Interface Paragraphs * User Knowledge Worker)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	18.327 ^a	2	0.000
Likelihood Ratio	18.107	2	0.000
Linear-by-Linear Association	14.910	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .27.

Table A.404: Symmetric Measures (Interface Paragraphs * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.083	0.000
	Cramer's V	0.083	0.000
	N of Valid Cases	2658	

Table A.405: Crosstab (Interface Progress Bars * User Knowledge Worker)

		User Knowledge Worker			
		Not		Total	
		Knowledge Worker	Knowledge Worker		
Interface Progress Bars	Not Available	Count	1	1	2
		% within User Knowledge Worker	0.1%	0.1%	0.1%
	Only Text	Count	139	40	179
		% within User Knowledge Worker	7.2%	5.5%	6.7%
	Progress Bar	Count	1792	685	2477
		% within User Knowledge Worker	92.8%	94.4%	93.2%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.406: Chi-Square Tests (Interface Progress Bars * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.888 ^a	2	0.236
Likelihood Ratio	2.925	2	0.232
Linear-by-Linear Association	1.840	1	0.175
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .55.

Table A.407: Symmetric Measures (Interface Progress Bars * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.033	0.236
	Cramer's V	0.033	0.236
	N of Valid Cases	2658	

Table A.408: Crosstab (Interface Label Position * User Knowledge Worker)

		User Knowledge Worker			
		Not Knowledge Worker			
			Worker	Worker	Total
Interface Label Position	Not Available	Count	2	0	2
		% within User Knowledge Worker	0.1%	0.0%	0.1%
	On The Top	Count	522	186	708
		% within User Knowledge Worker	27.0%	25.6%	26.6%
	On The Left	Count	1408	540	1948
		% within User Knowledge Worker	72.9%	74.4%	73.3%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.409: Chi-Square Tests (Interface Label Position * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.302 ^a	2	0.522
Likelihood Ratio	1.829	2	0.401
Linear-by-Linear Association	0.688	1	0.407
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .55.

Table A.410: Symmetric Measures (Interface Label Position * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.022	0.522
	Cramer's V	0.022	0.522
N of Valid Cases		2658	

Table A.411: Crosstab (Interface Windows * User Knowledge Worker)

		User Knowledge Worker			
		Not Knowledge Knowledge		Total	
		Worker	Worker		
Interface Windows	Not Available	Count	2	0	2
		% within User Knowledge Worker	0.1%	0.0%	0.1%
	Windows	Count	543	218	761
		% within User Knowledge Worker	28.1%	30.0%	28.6%
	One Screen	Count	1387	508	1895
		% within User Knowledge Worker	71.8%	70.0%	71.3%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.412: Chi-Square Tests (Interface Windows * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.677 ^a	2	0.432
Likelihood Ratio	2.196	2	0.334
Linear-by-Linear Association	0.751	1	0.386
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .55.

Table A.413: Symmetric Measures (Interface Windows * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.025	0.432
	Cramer's V	0.025	0.432
N of Valid Cases		2658	

Table A.414: Crosstab (Interface Form Icons * User Knowledge Worker)

		User Knowledge Worker		
		Not		
		Knowledge	Knowledge	
		Worker	Worker	Total
Interface Form Icons	Right Count	1240	530	1770
	% within User Knowledge Worker	64.2%	73.0%	66.6%
	Left Count	692	196	888
	% within User Knowledge Worker	35.8%	27.0%	33.4%
	Total Count	1932	726	2658
	% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.415: Chi-Square Tests (Interface Form Icons * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	18.455 ^a	1	0.000		
Continuity Correction ^b	18.060	1	0.000		
Likelihood Ratio	18.894	1	0.000		
Fisher's Exact Test				0.000	0.000
Linear-by-Linear Association	18.448	1	0.000		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 242.55.

b. Computed only for a 2x2 table

Table A.416: Symmetric Measures (Interface Form Icons * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.083	0.000
	Cramer's V	0.083	0.000
	N of Valid Cases	2658	

Table A.417: Crosstab (Interface Start Menu * User Knowledge Worker)

		User Knowledge Worker			
		Not			
		Knowledge Worker			
		Worker	Worker	Total	
Interface Start Menu	Not Available	Count	1	0	1
		% within User Knowledge Worker	0.1%	0.0%	0.0%
	Bottom	Count	1494	605	2099
		% within User Knowledge Worker	77.3%	83.3%	79.0%
	Left	Count	72	27	99
		% within User Knowledge Worker	3.7%	3.7%	3.7%
	Top	Count	326	77	403
		% within User Knowledge Worker	16.9%	10.6%	15.2%
	Right	Count	39	17	56
		% within User Knowledge Worker	2.0%	2.3%	2.1%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.418: Chi-Square Tests (Interface Start Menu * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	16.719 ^a	4	0.002
Likelihood Ratio	17.994	4	0.001
Linear-by-Linear Association	10.436	1	0.001
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .27.

Table A.419: Symmetric Measures (Interface Start Menu * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.079	0.002
	Cramer's V	0.079	0.002
	N of Valid Cases	2658	

Table A.420: Crosstab (Interface Human or Robot Operator * User Knowledge Worker)

		User Knowledge Worker		
		Not Knowledge Worker	Knowledge Worker	Total
Interface Human or Robot Operator	Human Count	1608	627	2235
	% within User Knowledge Worker	83.2%	86.4%	84.1%
	Robot Count	324	99	423
	% within User Knowledge Worker	16.8%	13.6%	15.9%
	Total Count	1932	726	2658
	% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.421: Chi-Square Tests (Interface Human or Robot Operator * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	3.873 ^a	1	0.049		
Continuity Correction ^b	3.642	1	0.056		
Likelihood Ratio	3.976	1	0.046		
Fisher's Exact Test				0.050	0.027
Linear-by-Linear Association	3.871	1	0.049		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 115.54.

b. Computed only for a 2x2 table

Table A.422: Symmetric Measures (Interface Human or Robot Operator * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.038	0.049
	Cramer's V	0.038	0.049
	N of Valid Cases	2658	

Table A.423: Crosstab (Interface Icon Position * User Knowledge Worker)

		<i>User Knowledge Worker</i>			
		<i>Not</i>			
		<i>Knowledge Worker</i>			
		<i>Worker</i>	<i>Worker</i>	<i>Total</i>	
Interface Icon Position	Not Available	Count	0	1	1
		% within User Knowledge Worker	0.0%	0.1%	0.0%
	Top	Count	395	188	583
		% within User Knowledge Worker	20.4%	25.9%	21.9%
	Left	Count	1403	468	1871
		% within User Knowledge Worker	72.6%	64.5%	70.4%
	Right	Count	119	45	164
		% within User Knowledge Worker	6.2%	6.2%	6.2%
	Bottom	Count	15	24	39
		% within User Knowledge Worker	.8%	3.3%	1.5%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.424: Chi-Square Tests (Interface Icon Position * User Knowledge Worker)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	37.806 ^a	4	0.000
Likelihood Ratio	34.475	4	0.000
Linear-by-Linear Association	0.064	1	0.800
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .27.

Table A.425: Symmetric Measures (Interface Icon Position * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.119	0.000
	Cramer's V	0.119	0.000
	N of Valid Cases	2658	

Table A.426: Crosstab (Interface Widgets * User Knowledge Worker)

		User Knowledge Worker		
		Not Knowledge Worker	Knowledge Worker	Total
Interface Widgets	I Love Count	886	329	1215
	% within User Knowledge Worker	45.9%	45.3%	45.7%
	I Hate Count	1046	397	1443
	% within User Knowledge Worker	54.1%	54.7%	54.3%
	Total Count	1932	726	2658
	% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.427: Chi-Square Tests (Interface Widgets * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.063 ^a	1	0.802		
Continuity Correction ^b	0.043	1	0.836		
Likelihood Ratio	0.063	1	0.802		
Fisher's Exact Test				0.827	0.418
Linear-by-Linear Association	0.063	1	0.803		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 331.86.

b. Computed only for a 2x2 table

Table A.428: Symmetric Measures (Interface Widgets * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.005	0.802
	Cramer's V	0.005	0.802
N of Valid Cases		2658	

Table A.429: Crosstab (Interface Menu Icons * User Knowledge Worker)

		<i>User Knowledge Worker</i>			
		<i>Not</i>			
		<i>Knowledge Worker</i>			
		<i>Worker</i>	<i>Worker</i>	<i>Total</i>	
Interface Menu Icons	Not Available	Count	1	0	1
		% within User Knowledge Worker	0.1%	0.0%	0.0%
	Important	Count	1693	646	2339
		% within User Knowledge Worker	87.6%	89.0%	88.0%
	Not Important	Count	238	80	318
		% within User Knowledge Worker	12.3%	11.0%	12.0%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.430: Chi-Square Tests (Interface Menu Icons * User Knowledge Worker)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	1.230 ^a	2	0.541
Likelihood Ratio	1.505	2	0.471
Linear-by-Linear Association	0.776	1	0.378
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .27.

Table A.431: Symmetric Measures (Interface Menu Icons * User Knowledge Worker)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.022	0.541
	Cramer's V	0.022	0.541
	N of Valid Cases	2658	

Table A.432: Crosstab (Interface Computer Desktop * User Knowledge Worker)

		<i>User Knowledge Worker</i>		
		<i>Not</i>	<i>Knowledge</i>	
		<i>Knowledge</i>	<i>Worker</i>	<i>Total</i>
		<i>Worker</i>	<i>Worker</i>	
Interface Computer Desktop	Organized Count	1588	590	2178
	% within User			
	Knowledge	82.2%	81.3%	81.9%
	Worker			
	Untidy Count	344	136	480
	% within User			
Knowledge	17.8%	18.7%	18.1%	
Worker				
Total Count	1932	726	2658	
% within User				
Knowledge	100.0%	100.0%	100.0%	
Worker				

Table A.433: Chi-Square Tests (Interface Computer Desktop * User Knowledge Worker)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>	<i>Exact Sig. (2-sided)</i>	<i>Exact Sig. (1-sided)</i>
Pearson Chi-Square	0.307 ^a	1	0.580		
Continuity Correction ^b	0.247	1	0.619		
Likelihood Ratio	0.305	1	0.581		
Fisher's Exact Test				0.572	0.308
Linear-by-Linear Association	0.307	1	0.580		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 131.11.

b. Computed only for a 2x2 table

Table A.434: Symmetric Measures (Interface Computer Desktop * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.011	0.580
	Cramer's V	0.011	0.580
	N of Valid Cases	2658	

Table A.435: Crosstab (Interface Backcolor * User Knowledge Worker)

		User Knowledge Worker			
		Not Knowledge Worker		Total	
		Worker	Worker		
Interface Backcolor	Not Available	Count	1	0	1
		% within User Knowledge Worker	0.1%	0.0%	0.0%
	Black	Count	878	321	1199
		% within User Knowledge Worker	45.4%	44.2%	45.1%
	White	Count	1053	405	1458
		% within User Knowledge Worker	54.5%	55.8%	54.9%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.436: Chi-Square Tests (Interface Backcolor * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.711 ^a	2	0.701
Likelihood Ratio	0.973	2	0.615
Linear-by-Linear Association	0.378	1	0.539
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .27.

Table A.437: Symmetric Measures (Interface Backcolor * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.016	0.701
	Cramer's V	0.016	0.701
	N of Valid Cases	2658	

Table A.438: Crosstab (Interface Menus * User Knowledge Worker)

		User Knowledge Worker			
		Not Knowledge Worker		Total	
		Worker	Worker		
Interface Menus	Not Available	Count	1	0	1
		% within User Knowledge Worker	0.1%	0.0%	0.0%
	Horizontal	Count	1396	412	1808
		% within User Knowledge Worker	72.3%	56.7%	68.0%
	Vertical	Count	535	314	849
		% within User Knowledge Worker	27.7%	43.3%	31.9%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.439: Chi-Square Tests (Interface Menus * User Knowledge Worker)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	59.027 ^a	2	0.000
Likelihood Ratio	57.596	2	0.000
Linear-by-Linear Association	58.968	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .27.

Table A.440: Symmetric Measures (Interface Menus * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.149	0.000
	Cramer's V	0.149	0.000
	N of Valid Cases	2658	

Table A.441: Crosstab (Interface Wizards * User Knowledge Worker)

		<i>User Knowledge Worker</i>			
		<i>Not</i>			
		<i>Knowledge</i>	<i>Knowledge</i>		
		<i>Worker</i>	<i>Worker</i>	<i>Total</i>	
Interface Wizards	Always	Count	184	90	274
		% within User Knowledge Worker	9.5%	12.4%	10.3%
	Occasionally	Count	1293	502	1795
		% within User Knowledge Worker	66.9%	69.1%	67.5%
	Never	Count	455	134	589
		% within User Knowledge Worker	23.6%	18.5%	22.2%
	Total	Count	1932	726	2658
		% within User Knowledge Worker	100.0%	100.0%	100.0%

Table A.442: Chi-Square Tests (Interface Wizards * User Knowledge Worker)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	10.788 ^a	2	0.005
Likelihood Ratio	10.867	2	0.004
Linear-by-Linear Association	10.777	1	0.001
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 74.84.

Table A.443: Symmetric Measures (Interface Wizards * User Knowledge Worker)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.064	0.005
	Cramer's V	0.064	0.005
	N of Valid Cases	2658	

B.9. User Entertainer Cross Tables

Table A.444: Crosstab (Interface Logo Position * User Entertainer)

		User Entertainer			
		Not Entertainer	Entertainer	Total	
Interface Logo Position	Not Available	Count	5	0	5
		% within User Entertainer	0.3%	0.0%	0.2%
	Left	Count	1262	811	2073
		% within User Entertainer	77.4%	78.9%	78.0%
	Center	Count	174	127	301
		% within User Entertainer	10.7%	12.4%	11.3%
	Right	Count	189	90	279
		% within User Entertainer	11.6%	8.8%	10.5%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.445: Chi-Square Tests (Interface Logo Position * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.742 ^a	3	0.021
Likelihood Ratio	11.580	3	0.009
Linear-by-Linear Association	1.992	1	0.158
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 1.93.

Table A.446: Symmetric Measures (Interface Logo Position * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.061	0.021
	Cramer's V	0.061	0.021
	N of Valid Cases	2658	

Table A.447: Crosstab (Interface Warnings * User Entertainer)

			User Entertainer		
			Not		Total
			Entertainer	Entertainer	
Interface Warnings	Not Available	Count	1	0	1
		% within User Entertainer	0.1%	0.0%	0.0%
	Pop-up	Count	109	101	210
		% within User Entertainer	6.7%	9.8%	7.9%
	On Form	Count	1520	927	2447
		% within User Entertainer	93.3%	90.2%	92.1%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.448: Chi-Square Tests (Interface Warnings * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.135 ^a	2	0.010
Likelihood Ratio	9.303	2	0.010
Linear-by-Linear Association	7.726	1	0.005
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .39.

Table A.449: Symmetric Measures (Interface Warnings * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.059	0.010
	Cramer's V	0.059	0.010
	N of Valid Cases	2658	

Table A.450: Crosstab (Interface Forecolor * User Entertainer)

			User Entertainer		
			Not		Total
			Entertainer	Entertainer	
Interface Forecolor	Not Available	Count	2	0	2
		% within User Entertainer	0.1%	0.0%	0.1%
	Black	Count	242	210	452
		% within User Entertainer	14.8%	20.4%	17.0%
	White	Count	1386	818	2204
		% within User Entertainer	85.0%	79.6%	82.9%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.451: Chi-Square Tests (Interface Forecolor * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.075 ^a	2	0.001
Likelihood Ratio	15.551	2	0.000
Linear-by-Linear Association	12.492	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .77.

Table A.452: Symmetric Measures (Interface Forecolor * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.075	0.001
	Cramer's V	0.075	0.001
	N of Valid Cases	2658	

Table A.453: Crosstab (Interface Paragraphs * User Entertainer)

		User Entertainer			
		Not		Total	
		Entertainer	Entertainer		
Interface Paragraphs	Not Available	Count	0	1	1
		% within User Entertainer	0.0%	0.1%	0.0%
	Aligned	Count	1031	615	1646
		% within User Entertainer	63.3%	59.8%	61.9%
	Justified	Count	599	412	1011
		% within User Entertainer	36.7%	40.1%	38.0%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.454: Chi-Square Tests (Interface Paragraphs * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.618 ^a	2	0.099
Likelihood Ratio	4.926	2	0.085
Linear-by-Linear Association	2.785	1	0.095
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .39.

Table A.455: Symmetric Measures (Interface Paragraphs * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.042	0.099
	Cramer's V	0.042	0.099
	N of Valid Cases	2658	

Table A.456: Crosstab (Interface Progress Bars * User Entertainer)

			User Entertainer		
			Not		
			Entertainer	Entertainer	Total
Interface Progress Bars	Not Available	Count	2	0	2
		% within User Entertainer	0.1%	0.0%	0.1%
	Only Text	Count	118	61	179
		% within User Entertainer	7.2%	5.9%	6.7%
	Progress Bar	Count	1510	967	2477
		% within User Entertainer	92.6%	94.1%	93.2%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.457: Chi-Square Tests (Interface Progress Bars * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.995 ^a	2	0.224
Likelihood Ratio	3.715	2	0.156
Linear-by-Linear Association	2.310	1	0.129
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .77.

Table A.458: Symmetric Measures (Interface Progress Bars * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.034	0.224
	Cramer's V	0.034	0.224
	N of Valid Cases	2658	

Table A.459: Crosstab (Interface Label Position * User Entertainer)

		User Entertainer			
		Not		Total	
		Entertainer	Entertainer		
Interface Label Position	Not Available	Count	2	0	2
		% within User Entertainer	0.1%	0.0%	0.1%
	On The Top	Count	419	289	708
		% within User Entertainer	25.7%	28.1%	26.6%
	On The Left	Count	1209	739	1948
		% within User Entertainer	74.2%	71.9%	73.3%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.460: Chi-Square Tests (Interface Label Position * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.082 ^a	2	0.214
Likelihood Ratio	3.769	2	0.152
Linear-by-Linear Association	1.490	1	0.222
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .77.

Table A.461: Symmetric Measures (Interface Label Position * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.034	0.214
	Cramer's V	0.034	0.214
	N of Valid Cases	2658	

Table A.462: Crosstab (Interface Windows * User Entertainer)

			User Entertainer		
			Not		Total
			Entertainer	Entertainer	
Interface Windows	Not Available	Count	2	0	2
		% within User Entertainer	0.1%	0.0%	0.1%
	Windows	Count	476	285	761
		% within User Entertainer	29.2%	27.7%	28.6%
	One Screen	Count	1152	743	1895
		% within User Entertainer	70.7%	72.3%	71.3%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.463: Chi-Square Tests (Interface Windows * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.970 ^a	2	0.374
Likelihood Ratio	2.666	2	0.264
Linear-by-Linear Association	0.907	1	0.341
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .77.

Table A.464: Symmetric Measures (Interface Windows * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.027	0.374
	Cramer's V	0.027	0.374
	N of Valid Cases	2658	

Table A.465: Crosstab (Interface Form Icons * User Entertainer)

		User Entertainer		
		Not		
		Entertainer	Entertainer	Total
Interface Form Icons	Right Count	1056	714	1770
	% within User Entertainer	64.8%	69.5%	66.6%
	Left Count	574	314	888
	% within User Entertainer	35.2%	30.5%	33.4%
	Total Count	1630	1028	2658
	% within User Entertainer	100.0%	100.0%	100.0%

Table A.466: Chi-Square Tests (Interface Form Icons * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	6.180 ^a	1	0.013		
Continuity Correction ^b	5.972	1	0.015		
Likelihood Ratio	6.217	1	0.013		
Fisher's Exact Test				0.014	0.007
Linear-by-Linear Association	6.178	1	0.013		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 343.44.

b. Computed only for a 2x2 table

Table A.467: Symmetric Measures (Interface Form Icons * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	-0.048	0.013
	Cramer's V	0.048	0.013
	N of Valid Cases	2658	

Table A.468: Crosstab (Interface Start Menu * User Entertainer)

		User Entertainer			
		Not			
		Entertainer	Entertainer	Total	
Interface Start Menu	Not Available	Count	1	0	1
		% within User Entertainer	0.1%	0.0%	0.0%
	Bottom	Count	1281	818	2099
		% within User Entertainer	78.6%	79.6%	79.0%
	Left	Count	65	34	99
		% within User Entertainer	4.0%	3.3%	3.7%
	Top	Count	254	149	403
		% within User Entertainer	15.6%	14.5%	15.2%
	Right	Count	29	27	56
		% within User Entertainer	1.8%	2.6%	2.1%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.469: Chi-Square Tests (Interface Start Menu * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.132 ^a	4	0.388
Likelihood Ratio	4.445	4	0.349
Linear-by-Linear Association	0.006	1	0.938
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .39.

Table A.470: Symmetric Measures (Interface Start Menu * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.039	0.388
	Cramer's V	0.039	0.388
	N of Valid Cases	2658	

Table A.471: Crosstab (Interface Human or Robot Operator * User Entertainer)

		User Entertainer		
		Not	Entertainer	Total
		Entertainer	Entertainer	
Interface Human or Robot Operator	Human Count	1386	849	2235
	% within User Entertainer	85.0%	82.6%	84.1%
	Robot Count	244	179	423
	% within User Entertainer	15.0%	17.4%	15.9%
	Total Count	1630	1028	2658
	% within User Entertainer	100.0%	100.0%	100.0%

Table A.472: Chi-Square Tests (Interface Human or Robot Operator * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	2.812 ^a	1	0.094		
Continuity Correction ^b	2.632	1	0.105		
Likelihood Ratio	2.788	1	0.095		
Fisher's Exact Test				0.102	0.053
Linear-by-Linear Association	2.811	1	0.094		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 163.60.

b. Computed only for a 2x2 table

Table A.473: Symmetric Measures (Interface Human or Robot Operator * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.033	0.094
	Cramer's V	0.033	0.094
N of Valid Cases		2658	

Table A.474: Crosstab (Interface Icon Position * User Entertainer)

		User Entertainer			
		Not Entertainer	Entertainer	Total	
Interface Icon Position	Not Available	Count	0	1	1
		% within User Entertainer	0.0%	0.1%	0.0%
	Top	Count	337	246	583
		% within User Entertainer	20.7%	23.9%	21.9%
	Left	Count	1175	696	1871
		% within User Entertainer	72.1%	67.7%	70.4%
	Right	Count	104	60	164
		% within User Entertainer	6.4%	5.8%	6.2%
	Bottom	Count	14	25	39
		% within User Entertainer	.9%	2.4%	1.5%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.475: Chi-Square Tests (Interface Icon Position * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	17.284 ^a	4	0.002
Likelihood Ratio	17.216	4	0.002
Linear-by-Linear Association	0.139	1	0.709
N of Valid Cases	2658		

a. 2 cells (20.0%) have expected count less than 5. The minimum expected count is .39.

Table A.476: Symmetric Measures (Interface Icon Position * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.081	0.002
	Cramer's V	0.081	0.002
	N of Valid Cases	2658	

Table A.477: Crosstab (Interface Widgets * User Entertainer)

			User Entertainer		
			Not		
			Entertainer	Entertainer	Total
Interface Widgets	I	Count	770	445	1215
	Love	% within User	47.2%	43.3%	45.7%
		Entertainer			
	I Hate	Count	860	583	1443
		% within User	52.8%	56.7%	54.3%
	Total	Count	1630	1028	2658
		% within User	100.0%	100.0%	100.0%
		Entertainer			

Table A.478: Chi-Square Tests (Interface Widgets * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	3.966 ^a	1	0.046		
Continuity Correction ^b	3.809	1	0.051		
Likelihood Ratio	3.972	1	0.046		
Fisher's Exact Test				0.050	0.025
Linear-by-Linear Association	3.965	1	0.046		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 469.91.

b. Computed only for a 2x2 table

Table A.479: Symmetric Measures (Interface Widgets * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.039	0.046
	Cramer's V	0.039	0.046
	N of Valid Cases	2658	

Table A.480: Crosstab (Interface Menu Icons * User Entertainer)

		User Entertainer			
		Not			
		Entertainer	Entertainer	Total	
Interface Menu Icons	Not Available	Count	1	0	1
		% within User Entertainer	0.1%	0.0%	0.0%
	Important	Count	1398	941	2339
		% within User Entertainer	85.8%	91.5%	88.0%
	Not Important	Count	231	87	318
		% within User Entertainer	14.2%	8.5%	12.0%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.481: Chi-Square Tests (Interface Menu Icons * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	20.188 ^a	2	0.000
Likelihood Ratio	21.360	2	0.000
Linear-by-Linear Association	18.998	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .39.

Table A.482: Symmetric Measures (Interface Menu Icons * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.087	0.000
	Cramer's V	0.087	0.000
	N of Valid Cases	2658	

Table A.483: Crosstab (Interface Computer Desktop * User Entertainer)

		User Entertainer		
		Not		
		Entertainer	Entertainer	Total
Interface Computer Desktop	Organized Count	1336	842	2178
	% within User Entertainer	82.0%	81.9%	81.9%
	Untidy Count	294	186	480
	% within User Entertainer	18.0%	18.1%	18.1%
	Total Count	1630	1028	2658
	% within User Entertainer	100.0%	100.0%	100.0%

Table A.484: Chi-Square Tests (Interface Computer Desktop * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	0.001 ^a	1	0.971		
Continuity Correction ^b	0.000	1	1.000		
Likelihood Ratio	0.001	1	0.971		
Fisher's Exact Test				1.000	0.505
Linear-by-Linear Association	0.001	1	0.971		
N of Valid Cases	2658				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 185.64.

b. Computed only for a 2x2 table

Table A.485: Symmetric Measures (Interface Computer Desktop * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.001	0.971
	Cramer's V	0.001	0.971
	N of Valid Cases	2658	

Table A.486: Crosstab (Interface Backcolor * User Entertainer)

			User Entertainer		
			Not		Total
			Entertainer	Entertainer	
Interface Backcolor	Not Available	Count	1	0	1
		% within User Entertainer	0.1%	0.0%	0.0%
	Black	Count	693	506	1199
		% within User Entertainer	42.5%	49.2%	45.1%
	White	Count	936	522	1458
		% within User Entertainer	57.4%	50.8%	54.9%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.487: Chi-Square Tests (Interface Backcolor * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.991 ^a	2	0.002
Likelihood Ratio	12.324	2	0.002
Linear-by-Linear Association	10.995	1	0.001
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .39.

Table A.488: Symmetric Measures (Interface Backcolor * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.067	0.002
	Cramer's V	0.067	0.002
	N of Valid Cases	2658	

Table A.489: Crosstab (Interface Menus * User Entertainer)

		User Entertainer			
		Not	Entertainer	Total	
Interface	Not	Entertainer	Entertainer		
Menus	Available	Count	1	0	1
		% within User Entertainer	0.1%	0.0%	0.0%
	Horizontal	Count	1145	663	1808
		% within User Entertainer	70.2%	64.5%	68.0%
	Vertical	Count	484	365	849
		% within User Entertainer	29.7%	35.5%	31.9%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.490: Chi-Square Tests (Interface Menus * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10.364 ^a	2	0.006
Likelihood Ratio	10.651	2	0.005
Linear-by-Linear Association	9.974	1	0.002
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .39.

Table A.491: Symmetric Measures (Interface Menus * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.062	0.006
	Cramer's V	0.062	0.006
	N of Valid Cases	2658	

Table A.492: Crosstab (Interface Wizards * User Entertainer)

			User Entertainer		
			Not		
			Entertainer	Entertainer	Total
Interface Wizards	Always	Count	171	103	274
		% within User Entertainer	10.5%	10.0%	10.3%
	Occasionally	Count	1080	715	1795
		% within User Entertainer	66.3%	69.6%	67.5%
	Never	Count	379	210	589
		% within User Entertainer	23.3%	20.4%	22.2%
	Total	Count	1630	1028	2658
		% within User Entertainer	100.0%	100.0%	100.0%

Table A.493: Chi-Square Tests (Interface Wizards * User Entertainer)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.417 ^a	2	0.181
Likelihood Ratio	3.438	2	0.179
Linear-by-Linear Association	1.122	1	0.289
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 105.97.

Table A.494: Symmetric Measures (Interface Wizards * User Entertainer)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.036	0.181
	Cramer's V	0.036	0.181
	N of Valid Cases	2658	

B.10. User Wrist Watch Cross Tables

Table A.495: Crosstab (Interface Logo Position * User Wrist Watch)

			<i>User Wrist Watch</i>				
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
Interface Logo Position	Not Available	Count	0	0	2	3	5
		% within User Wrist Watch	0.0%	0.0%	0.2%	0.2%	0.2%
	Left	Count	9	231	788	1045	2073
		% within User Wrist Watch	69.2%	74.3%	78.8%	78.3%	78.0%
	Center	Count	2	49	105	145	301
		% within User Wrist Watch	15.4%	15.8%	10.5%	10.9%	11.3%
	Right	Count	2	31	105	141	279
		% within User Wrist Watch	15.4%	10.0%	10.5%	10.6%	10.5%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.496: Chi-Square Tests (Interface Logo Position * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.307 ^a	9	0.504
Likelihood Ratio	8.295	9	0.505
Linear-by-Linear Association	0.654	1	0.419
N of Valid Cases	2658		

a. 6 cells (37.5%) have expected count less than 5. The minimum expected count is .02.

Table A.497: Symmetric Measures (Interface Logo Position * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.056	0.504
	Cramer's V	0.032	0.504
	N of Valid Cases	2658	

Table A.498: Crosstab (Interface Warnings * User Wrist Watch)

			<i>User Wrist Watch</i>				
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
<i>Interface Warnings</i>	<i>Not Available</i>	Count	0	0	0	1	1
		% within User Wrist Watch	0.0%	0.0%	0.0%	0.1%	0.0%
	<i>Pop-up</i>	Count	0	30	108	72	210
		% within User Wrist Watch	0.0%	9.6%	10.8%	5.4%	7.9%
	<i>On Form</i>	Count	13	281	892	1261	2447
		% within User Wrist Watch	100.0%	90.4%	89.2%	94.5%	92.1%
	<i>Total</i>	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.499: Chi-Square Tests (Interface Warnings * User Wrist Watch)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	26.398 ^a	6	0.000
Likelihood Ratio	27.964	6	0.000
Linear-by-Linear Association	12.856	1	0.000
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .00.

Table A.500: Symmetric Measures (Interface Warnings * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.100	0.000
	Cramer's V	0.070	0.000
	N of Valid Cases	2658	

Table A.501: Crosstab (Interface Forecolor * User Wrist Watch)

			User Wrist Watch				
			Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Forecolor	Not Available	Count	0	0	0	2	2
		% within User Wrist Watch	0.0%	0.0%	0.0%	0.1%	0.1%
	Black	Count	4	53	181	214	452
		% within User Wrist Watch	30.8%	17.0%	18.1%	16.0%	17.0%
	White	Count	9	258	819	1118	2204
		% within User Wrist Watch	69.2%	83.0%	81.9%	83.8%	82.9%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.502: Chi-Square Tests (Interface Forecolor * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.412 ^a	6	0.492
Likelihood Ratio	5.919	6	0.432
Linear-by-Linear Association	1.037	1	0.308
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .01.

Table A.503: Symmetric Measures (Interface Forecolor * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.045	0.492
	Cramer's V	0.032	0.492
	N of Valid Cases	2658	

Table A.504: Crosstab (Interface Paragraphs * User Wrist Watch)

			<i>User Wrist Watch</i>				
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
<i>Interface Paragraphs</i>	<i>Not Available</i>	Count	0	0	1	0	1
		% within User Wrist Watch	0.0%	0.0%	0.1%	0.0%	0.0%
	<i>Aligned</i>	Count	7	184	589	866	1646
		% within User Wrist Watch	53.8%	59.2%	58.9%	64.9%	61.9%
	<i>Justified</i>	Count	6	127	410	468	1011
		% within User Wrist Watch	46.2%	40.8%	41.0%	35.1%	38.0%
	<i>Total</i>	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.505: Chi-Square Tests (Interface Paragraphs * User Wrist Watch)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	11.820 ^a	6	0.066
Likelihood Ratio	12.119	6	0.059
Linear-by-Linear Association	7.942	1	0.005
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .00.

Table A.506: Symmetric Measures (Interface Paragraphs * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.067	0.066
	Cramer's V	0.047	0.066
	N of Valid Cases	2658	

Table A.507: Crosstab (Interface Progress Bars * User Wrist Watch)

		User Wrist Watch					
			Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Progress Bars	Not Available	Count	0	2	0	0	2
		% within User Wrist Watch	0.0%	0.6%	0.0%	0.0%	0.1%
	Only Text	Count	1	19	60	99	179
		% within User Wrist Watch	7.7%	6.1%	6.0%	7.4%	6.7%
	Progress Bar	Count	12	290	940	1235	2477
		% within User Wrist Watch	92.3%	93.2%	94.0%	92.6%	93.2%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.508: Chi-Square Tests (Interface Progress Bars * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	17.152 ^a	6	0.009
Likelihood Ratio	10.646	6	0.100
Linear-by-Linear Association	0.331	1	0.565
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .01.

Table A.509: Symmetric Measures (Interface Progress Bars * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.080	0.009
	Cramer's V	0.057	0.009
	N of Valid Cases	2658	

Table A.510: Crosstab (Interface Label Position * User Wrist Watch)

			User Wrist Watch				
			Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Label Position	Not Available	Count	0	1	0	1	2
		% within User Wrist Watch	0.0%	0.3%	0.0%	0.1%	0.1%
	On The Top	Count	3	97	261	347	708
		% within User Wrist Watch	23.1%	31.2%	26.1%	26.0%	26.6%
	On The Left	Count	10	213	739	986	1948
		% within User Wrist Watch	76.9%	68.5%	73.9%	73.9%	73.3%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.511: Chi-Square Tests (Interface Label Position * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.178 ^a	6	0.305
Likelihood Ratio	6.705	6	0.349
Linear-by-Linear Association	2.034	1	0.154
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .01.

Table A.512: Symmetric Measures (Interface Label Position * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.305
	Cramer's V	0.037	0.305
	N of Valid Cases	2658	

Table A.513: Crosstab (Interface Windows * User Wrist Watch)

			User Wrist Watch				
			Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Windows	Not Available	Count	0	1	1	0	2
		% within User Wrist Watch	0.0%	0.3%	0.1%	0.0%	0.1%
	Windows	Count	2	96	293	370	761
		% within User Wrist Watch	15.4%	30.9%	29.3%	27.7%	28.6%
	One Screen	Count	11	214	706	964	1895
		% within User Wrist Watch	84.6%	68.8%	70.6%	72.3%	71.3%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.514: Chi-Square Tests (Interface Windows * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.308 ^a	6	0.390
Likelihood Ratio	6.316	6	0.389
Linear-by-Linear Association	1.314	1	0.252
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .01.

Table A.515: Symmetric Measures (Interface Windows * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.049	0.390
	Cramer's V	0.034	0.390
	N of Valid Cases	2658	

Table A.516: Crosstab (Interface Form Icons * User Wrist Watch)

		User Wrist Watch				
		Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Form Icons	Right Count	9	215	661	885	1770
	% within User Wrist Watch	69.2%	69.1%	66.1%	66.3%	66.6%
	Left Count	4	96	339	449	888
	% within User Wrist Watch	30.8%	30.9%	33.9%	33.7%	33.4%
	Total Count	13	311	1000	1334	2658
	% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.517: Chi-Square Tests (Interface Form Icons * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.089 ^a	3	0.780
Likelihood Ratio	1.101	3	0.777
Linear-by-Linear Association	0.482	1	0.487
N of Valid Cases	2658		

a. 1 cells (12.5%) have expected count less than 5. The minimum expected count is 4.34.

Table A.518: Symmetric Measures (Interface Form Icons * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.020	0.780
	Cramer's V	0.020	0.780
	N of Valid Cases	2658	

Table A.519: Crosstab (Interface Start Menu * User Wrist Watch)

		<i>User Wrist Watch</i>					
		<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>	
Interface Start Menu	Not Available	Count	0	0	0	1	1
		% within User Wrist Watch	0.0%	0.0%	0.0%	0.1%	0.0%
	Bottom	Count	9	247	808	1035	2099
		% within User Wrist Watch	69.2%	79.4%	80.8%	77.6%	79.0%
	Left	Count	0	8	40	51	99
		% within User Wrist Watch	.0%	2.6%	4.0%	3.8%	3.7%
	Top	Count	3	49	132	219	403
		% within User Wrist Watch	23.1%	15.8%	13.2%	16.4%	15.2%
	Right	Count	1	7	20	28	56
		% within User Wrist Watch	7.7%	2.3%	2.0%	2.1%	2.1%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.520: Chi-Square Tests (Interface Start Menu * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10.279 ^a	12	0.591
Likelihood Ratio	10.504	12	0.572
Linear-by-Linear Association	0.698	1	0.403
N of Valid Cases	2658		

a. 7 cells (35.0%) have expected count less than 5. The minimum expected count is .00.

Table A.521: Symmetric Measures (Interface Start Menu * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.062	0.591
	Cramer's V	0.036	0.591
	N of Valid Cases	2658	

Table A.522: Crosstab (Interface Human or Robot Operator * User Wrist Watch)

		User Wrist Watch				Total
		Not Available	Digital Watch	Analog Watch	No Watch	
Interface Human or Robot Operator	Human Count	13	250	878	1094	2235
	% within User Wrist Watch	100.0%	80.4%	87.8%	82.0%	84.1%
	Robot Count	0	61	122	240	423
	% within User Wrist Watch	.0%	19.6%	12.2%	18.0%	15.9%
	Total Count	13	311	1000	1334	2658
	% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.523: Chi-Square Tests (Interface Human or Robot Operator * User Wrist Watch)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	20.251 ^a	3	0.000
Likelihood Ratio	22.719	3	0.000
Linear-by-Linear Association	2.335	1	0.127
N of Valid Cases	2658		

a. 1 cells (12.5%) have expected count less than 5. The minimum expected count is 2.07.

Table A.524: Symmetric Measures (Interface Human or Robot Operator * User Wrist Watch)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.087	0.000
	Cramer's V	0.087	0.000
	N of Valid Cases	2658	

Table A.525: Crosstab (Interface Icon Position * User Wrist Watch)

			<i>User Wrist Watch</i>				
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
Interface Icon Position	Not Available	Count	0	1	0	0	1
		% within User Wrist Watch	0.0%	0.3%	0.0%	0.0%	0.0%
	Top	Count	2	74	221	286	583
		% within User Wrist Watch	15.4%	23.8%	22.1%	21.4%	21.9%
	Left	Count	10	211	699	951	1871
		% within User Wrist Watch	76.9%	67.8%	69.9%	71.3%	70.4%
	Right	Count	1	21	62	80	164
		% within User Wrist Watch	7.7%	6.8%	6.2%	6.0%	6.2%
	Bottom	Count	0	4	18	17	39
		% within User Wrist Watch	.0%	1.3%	1.8%	1.3%	1.5%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.526: Chi-Square Tests (Interface Icon Position * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	10.644 ^a	12	0.560
Likelihood Ratio	7.557	12	0.819
Linear-by-Linear Association	0.074	1	0.785
N of Valid Cases	2658		

a. 8 cells (40.0%) have expected count less than 5. The minimum expected count is .00.

Table A.527: Symmetric Measures (Interface Icon Position * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.063	0.560
	Cramer's V	0.037	0.560
	N of Valid Cases	2658	

Table A.528: Crosstab (Interface Widgets * User Wrist Watch)

			User Wrist Watch				
			Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Widgets	I Love	Count	5	177	472	561	1215
		% within User Wrist Watch	38.5%	56.9%	47.2%	42.1%	45.7%
	I Hate	Count	8	134	528	773	1443
		% within User Wrist Watch	61.5%	43.1%	52.8%	57.9%	54.3%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.529: Chi-Square Tests (Interface Widgets * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	24.084 ^a	3	0.000
Likelihood Ratio	24.053	3	0.000
Linear-by-Linear Association	20.342	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 5.94.

Table A.530: Symmetric Measures (Interface Widgets * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.095	0.000
	Cramer's V	0.095	0.000
	N of Valid Cases	2658	

Table A.531: Crosstab (Interface Menu Icons * User Wrist Watch)

			<i>User Wrist Watch</i>				
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
<i>Interface Menu Icons</i>	<i>Not Available</i>	Count	0	0	1	0	1
		% within User Wrist Watch	0.0%	0.0%	0.1%	0.0%	0.0%
	<i>Important</i>	Count	12	284	881	1162	2339
		% within User Wrist Watch	92.3%	91.3%	88.1%	87.1%	88.0%
	<i>Not Important</i>	Count	1	27	118	172	318
		% within User Wrist Watch	7.7%	8.7%	11.8%	12.9%	12.0%
	<i>Total</i>	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.532: Chi-Square Tests (Interface Menu Icons * User Wrist Watch)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	6.182 ^a	6	0.403
Likelihood Ratio	6.777	6	0.342
Linear-by-Linear Association	4.146	1	0.042
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .00.

Table A.533: Symmetric Measures (Interface Menu Icons * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.048	0.403
	Cramer's V	0.034	0.403
	N of Valid Cases	2658	

Table A.534: Crosstab (Interface Computer Desktop * User Wrist Watch)

		User Wrist Watch					
		Not Available	Digital Watch	Analog Watch	No Watch	Total	
Interface Computer Desktop	Organized	Count	11	257	831	1079	2178
		% within User Wrist Watch	84.6%	82.6%	83.1%	80.9%	81.9%
	Untidy	Count	2	54	169	255	480
		% within User Wrist Watch	15.4%	17.4%	16.9%	19.1%	18.1%
	Total	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.535: Chi-Square Tests (Interface Computer Desktop * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.078 ^a	3	0.556
Likelihood Ratio	2.083	3	0.555
Linear-by-Linear Association	1.468	1	0.226
N of Valid Cases	2658		

a. 1 cells (12.5%) have expected count less than 5. The minimum expected count is 2.35.

Table A.536: Symmetric Measures (Interface Computer Desktop * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.028	0.556
	Cramer's V	0.028	0.556
	N of Valid Cases	2658	

Table A.537: Crosstab (Interface Backcolor * User Wrist Watch)

			<i>User Wrist Watch</i>				
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
<i>Interface Backcolor</i>	<i>Not Available</i>	Count	0	0	0	1	1
		% within User Wrist Watch	0.0%	0.0%	0.0%	0.1%	0.0%
	<i>Black</i>	Count	8	150	433	608	1199
		% within User Wrist Watch	61.5%	48.2%	43.3%	45.6%	45.1%
	<i>White</i>	Count	5	161	567	725	1458
		% within User Wrist Watch	38.5%	51.8%	56.7%	54.3%	54.9%
	<i>Total</i>	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.538: Chi-Square Tests (Interface Backcolor * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.093 ^a	6	0.532
Likelihood Ratio	5.473	6	0.485
Linear-by-Linear Association	0.128	1	0.720
N of Valid Cases	2658		

a. 4 cells (33.3%) have expected count less than 5. The minimum expected count is .00.

Table A.539: Symmetric Measures (Interface Backcolor * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.044	0.532
	Cramer's V	0.031	0.532
	N of Valid Cases	2658	

Table A.540: Crosstab (Interface Menus * User Wrist Watch)

		<i>User Wrist Watch</i>					
			<i>Not Available</i>	<i>Digital Watch</i>	<i>Analog Watch</i>	<i>No Watch</i>	<i>Total</i>
<i>Interface Menus</i>	<i>Not Available</i>	Count	0	0	0	1	1
		% within User Wrist Watch	0.0%	0.0%	0.0%	0.1%	0.0%
	<i>Horizontal</i>	Count	9	201	662	936	1808
		% within User Wrist Watch	69.2%	64.6%	66.2%	70.2%	68.0%
	<i>Vertical</i>	Count	4	110	338	397	849
		% within User Wrist Watch	30.8%	35.4%	33.8%	29.8%	31.9%
	<i>Total</i>	Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.541: Chi-Square Tests (Interface Menus * User Wrist Watch)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	7.129 ^a	6	0.309
Likelihood Ratio	7.506	6	0.277
Linear-by-Linear Association	5.567	1	0.018
N of Valid Cases	2658		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .00.

Table A.542: Symmetric Measures (Interface Menus * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.309
	Cramer's V	0.037	0.309
	N of Valid Cases	2658	

Table A.543: Crosstab (Interface Wizards * User Wrist Watch)

			User Wrist Watch				
			Not Available	Digital Watch	Analog Watch	No Watch	Total
Interface Wizards	Always	Count	2	41	114	117	274
		% within User Wrist Watch	15.4%	13.2%	11.4%	8.8%	10.3%
		Occasionally Count	7	214	664	910	1795
		% within User Wrist Watch	53.8%	68.8%	66.4%	68.2%	67.5%
	Never	Count	4	56	222	307	589
		% within User Wrist Watch	30.8%	18.0%	22.2%	23.0%	22.2%
		Total Count	13	311	1000	1334	2658
		% within User Wrist Watch	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.544: Chi-Square Tests (Interface Wizards * User Wrist Watch)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.048 ^a	6	0.087
Likelihood Ratio	11.068	6	0.086
Linear-by-Linear Association	6.792	1	0.009
N of Valid Cases	2658		

a. 2 cells (16.7%) have expected count less than 5. The minimum expected count is 1.34.

Table A.545: Symmetric Measures (Interface Wizards * User Wrist Watch)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.064	0.087
	Cramer's V	0.046	0.087
	N of Valid Cases	2658	

B.11. User Remember Faces Cross Tables

Table A.546: Crosstab (Interface Logo Position * User Remember Faces)

			User Remember Faces			
			Very Well	Sometimes	Not Exactly	Total
Interface Logo Position	Not Available	Count	3	2	0	5
		% within User Remember Faces	0.2%	0.2%	0.0%	0.2%
	Left	Count	1108	865	100	2073
		% within User Remember Faces	75.4%	81.9%	75.2%	78.0%
	Center	Count	186	101	14	301
		% within User Remember Faces	12.7%	9.6%	10.5%	11.3%
	Right	Count	172	88	19	279
		% within User Remember Faces	11.7%	8.3%	14.3%	10.5%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.547: Chi-Square Tests (Interface Logo Position * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	17.593 ^a	6	0.007
Likelihood Ratio	18.003	6	0.006
Linear-by-Linear Association	5.208	1	0.022
N of Valid Cases	2658		

a. 3 cells (25.0%) have expected count less than 5. The minimum expected count is .25.

Table A.548: Symmetric Measures (Interface Logo Position * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.081	0.007
	Cramer's V	0.058	0.007
N of Valid Cases		2658	

Table A.549: Crosstab (Interface Warnings * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Warnings	Not Available	Count	0	1	0	1
		% within User Remember Faces	0.0%	0.1%	0.0%	0.0%
	Pop-up	Count	122	81	7	210
		% within User Remember Faces	8.3%	7.7%	5.3%	7.9%
	On Form	Count	1347	974	126	2447
		% within User Remember Faces	91.7%	92.2%	94.7%	92.1%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.550: Chi-Square Tests (Interface Warnings * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.191 ^a	4	0.526
Likelihood Ratio	3.673	4	0.452
Linear-by-Linear Association	1.032	1	0.310
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .05.

Table A.551: Symmetric Measures (Interface Warnings * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.035	0.526
	Cramer's V	0.025	0.526
	N of Valid Cases	2658	

Table A.552: Crosstab (Interface Forecolor * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Forecolor	Not Available	Count	2	0	0	2
		% within User Remember Faces	0.1%	0.0%	0.0%	0.1%
	Black	Count	260	170	22	452
		% within User Remember Faces	17.7%	16.1%	16.5%	17.0%
	White	Count	1207	886	111	2204
		% within User Remember Faces	82.2%	83.9%	83.5%	82.9%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.553: Chi-Square Tests (Interface Forecolor * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.791 ^a	4	0.593
Likelihood Ratio	3.547	4	0.471
Linear-by-Linear Association	1.225	1	0.268
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.554: Symmetric Measures (Interface Forecolor * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.032	0.593
	Cramer's V	0.023	0.593
	N of Valid Cases	2658	

Table A.555: Crosstab (Interface Paragraphs * User Remember Faces)

			User Remember Faces			
			Very Well	Sometimes	Not Exactly	Total
Interface Paragraphs	Not Available	Count	1	0	0	1
		% within User Remember Faces	0.1%	0.0%	0.0%	0.0%
	Aligned	Count	890	668	88	1646
		% within User Remember Faces	60.6%	63.3%	66.2%	61.9%
	Justified	Count	578	388	45	1011
		% within User Remember Faces	39.3%	36.7%	33.8%	38.0%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.556: Chi-Square Tests (Interface Paragraphs * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.669 ^a	4	0.453
Likelihood Ratio	4.060	4	0.398
Linear-by-Linear Association	2.693	1	0.101
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .05.

Table A.557: Symmetric Measures (Interface Paragraphs * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.037	0.453
	Cramer's V	0.026	0.453
	N of Valid Cases	2658	

Table A.558: Crosstab (Interface Progress Bars * User Remember Faces)

			<i>User Remember Faces</i>			
			<i>Very Well</i>	<i>Sometimes</i>	<i>Not Exactly</i>	<i>Total</i>
Interface Progress Bars	Not Available	Count	1	1	0	2
		% within User Remember Faces	0.1%	0.1%	0.0%	0.1%
	Only Text	Count	97	69	13	179
		% within User Remember Faces	6.6%	6.5%	9.8%	6.7%
	Progress Bar	Count	1371	986	120	2477
		% within User Remember Faces	93.3%	93.4%	90.2%	93.2%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.559: Chi-Square Tests (Interface Progress Bars * User Remember Faces)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	2.221 ^a	4	0.695
Likelihood Ratio	2.094	4	0.718
Linear-by-Linear Association	0.586	1	0.444
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.560: Symmetric Measures (Interface Progress Bars * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.029	0.695
	Cramer's V	0.020	0.695
N of Valid Cases		2658	

Table A.561: Crosstab (Interface Label Position * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Label Position	Not Available	Count	1	1	0	2
		% within User Remember Faces	0.1%	0.1%	0.0%	0.1%
	On The Top	Count	407	261	40	708
		% within User Remember Faces	27.7%	24.7%	30.1%	26.6%
	On The Left	Count	1061	794	93	1948
		% within User Remember Faces	72.2%	75.2%	69.9%	73.3%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.562: Chi-Square Tests (Interface Label Position * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.799 ^a	4	0.434
Likelihood Ratio	3.900	4	0.420
Linear-by-Linear Association	0.673	1	0.412
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.563: Symmetric Measures (Interface Label Position * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.038	0.434
	Cramer's V	0.027	0.434
	N of Valid Cases	2658	

Table A.564: Crosstab (Interface Windows * User Remember Faces)

			User Remember Faces			
			Very Well	Sometimes	Not Exactly	Total
Interface Windows	Not Available	Count	0	1	1	2
		% within User Remember Faces	0.0%	0.1%	0.8%	0.1%
	Windows	Count	426	300	35	761
		% within User Remember Faces	29.0%	28.4%	26.3%	28.6%
	One Screen	Count	1043	755	97	1895
		% within User Remember Faces	71.0%	71.5%	72.9%	71.3%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.565: Chi-Square Tests (Interface Windows * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.662 ^a	4	0.047
Likelihood Ratio	5.481	4	0.241
Linear-by-Linear Association	0.105	1	0.746
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.566: Symmetric Measures (Interface Windows * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.060	0.047
	Cramer's V	0.043	0.047
	N of Valid Cases	2658	

Table A.567: Crosstab (Interface Form Icons * User Remember Faces)

		User Remember Faces			
		Very Well	Sometimes	Not Exactly	Total
Interface Form Icons	Right Count	983	700	87	1770
	% within User Remember Faces	66.9%	66.3%	65.4%	66.6%
	Left Count	486	356	46	888
	% within User Remember Faces	33.1%	33.7%	34.6%	33.4%
	Total Count	1469	1056	133	2658
	% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.568: Chi-Square Tests (Interface Form Icons * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.196 ^a	2	0.906
Likelihood Ratio	0.196	2	0.907
Linear-by-Linear Association	0.194	1	0.660
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 44.43.

Table A.569: Symmetric Measures (Interface Form Icons * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.009	0.906
	Cramer's V	0.009	0.906
	N of Valid Cases	2658	

Table A.570: Crosstab (Interface Start Menu * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Start Menu	Not Available	Count	1	0	0	1
		% within User Remember Faces	0.1%	0.0%	0.0%	0.0%
	Bottom	Count	1168	834	97	2099
		% within User Remember Faces	79.5%	79.0%	72.9%	79.0%
	Left	Count	62	32	5	99
		% within User Remember Faces	4.2%	3.0%	3.8%	3.7%
	Top	Count	209	165	29	403
		% within User Remember Faces	14.2%	15.6%	21.8%	15.2%
	Right	Count	29	25	2	56
		% within User Remember Faces	2.0%	2.4%	1.5%	2.1%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.571: Chi-Square Tests (Interface Start Menu * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.374 ^a	8	0.312
Likelihood Ratio	9.385	8	0.311
Linear-by-Linear Association	2.800	1	0.094
N of Valid Cases	2658		

a. 5 cells (33.3%) have expected count less than 5. The minimum expected count is .05.

Table A.572: Symmetric Measures (Interface Start Menu * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.059	0.312
	Cramer's V	0.042	0.312
	N of Valid Cases	2658	

Table A.573: Crosstab (Interface Human or Robot Operator * User Remember Faces)

		User Remember Faces			
		Very Well	Sometimes	Not Exactly	Total
Interface Human or Robot Operator	Human Count	1260	881	94	2235
	% within User Remember Faces	85.8%	83.4%	70.7%	84.1%
	Robot Count	209	175	39	423
	% within User Remember Faces	14.2%	16.6%	29.3%	15.9%
	Total Count	1469	1056	133	2658
	% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.574: Chi-Square Tests (Interface Human or Robot Operator * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	21.336 ^a	2	0.000
Likelihood Ratio	18.568	2	0.000
Linear-by-Linear Association	14.579	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 21.17.

Table A.575: Symmetric Measures (Interface Human or Robot Operator * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.090	0.000
	Cramer's V	0.090	0.000
	N of Valid Cases	2658	

Table A.576: Crosstab (Interface Icon Position * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Icon Position Available	Not	Count	1	0	0	1
		% within User Remember Faces	0.1%	0.0%	0.0%	0.0%
	Top	Count	330	223	30	583
		% within User Remember Faces	22.5%	21.1%	22.6%	21.9%
	Left	Count	1014	767	90	1871
		% within User Remember Faces	69.0%	72.6%	67.7%	70.4%
	Right	Count	103	50	11	164
		% within User Remember Faces	7.0%	4.7%	8.3%	6.2%
	Bottom	Count	21	16	2	39
		% within User Remember Faces	1.4%	1.5%	1.5%	1.5%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.577: Chi-Square Tests (Interface Icon Position * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.819 ^a	8	0.358
Likelihood Ratio	9.340	8	0.314
Linear-by-Linear Association	0.001	1	0.981
N of Valid Cases	2658		

a. 4 cells (26.7%) have expected count less than 5. The minimum expected count is .05.

Table A.578: Symmetric Measures (Interface Icon Position * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.058	0.358
	Cramer's V	0.041	0.358
N of Valid Cases		2658	

Table A.579: Crosstab (Interface Widgets * User Remember Faces)

			User Remember Faces			
			Very Well	Sometimes	Not Exactly	Total
Interface Widgets	I Love	Count	715	454	46	1215
		% within User Remember Faces	48.7%	43.0%	34.6%	45.7%
I Hate		Count	754	602	87	1443
		% within User Remember Faces	51.3%	57.0%	65.4%	54.3%
Total		Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.580: Chi-Square Tests (Interface Widgets * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	14.970 ^a	2	0.001
Likelihood Ratio	15.112	2	0.001
Linear-by-Linear Association	14.714	1	0.000
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 60.80.

Table A.581: Symmetric Measures (Interface Widgets * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.075	0.001
	Cramer's V	0.075	0.001
	N of Valid Cases	2658	

Table A.582: Crosstab (Interface Menu Icons * User Remember Faces)

		User Remember Faces				
		Very Well	Sometimes	Not Exactly	Total	
Interface Menu Icons	Not Available	Count	1	0	0	1
		% within User Remember Faces	0.1%	0.0%	0.0%	0.0%
	Important	Count	1294	937	108	2339
		% within User Remember Faces	88.1%	88.7%	81.2%	88.0%
	Not Important	Count	174	119	25	318
		% within User Remember Faces	11.8%	11.3%	18.8%	12.0%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.583: Chi-Square Tests (Interface Menu Icons * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.207 ^a	4	0.125
Likelihood Ratio	6.835	4	0.145
Linear-by-Linear Association	1.305	1	0.253
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .05.

Table A.584: Symmetric Measures (Interface Menu Icons * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.125
	Cramer's V	0.037	0.125
	N of Valid Cases	2658	

Table A.585: Crosstab (Interface Computer Desktop * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Computer Desktop	Organized	Count	1230	841	107	2178
		% within User Remember Faces	83.7%	79.6%	80.5%	81.9%
	Untidy	Count	239	215	26	480
		% within User Remember Faces	16.3%	20.4%	19.5%	18.1%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.586: Chi-Square Tests (Interface Computer Desktop * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.156 ^a	2	0.028
Likelihood Ratio	7.121	2	0.028
Linear-by-Linear Association	5.800	1	0.016
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 24.02.

Table A.587: Symmetric Measures (Interface Computer Desktop * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.028
	Cramer's V	0.052	0.028
	N of Valid Cases	2658	

Table A.588: Crosstab (Interface Backcolor * User Remember Faces)

		<i>User Remember Faces</i>				
			<i>Very Well</i>	<i>Sometimes</i>	<i>Not Exactly</i>	<i>Total</i>
<i>Interface Backcolor</i>	<i>Not Available</i>	Count	1	0	0	1
		% within User Remember Faces	0.1%	0.0%	0.0%	0.0%
	<i>Black</i>	Count	686	453	60	1199
		% within User Remember Faces	46.7%	42.9%	45.1%	45.1%
	<i>White</i>	Count	782	603	73	1458
		% within User Remember Faces	53.2%	57.1%	54.9%	54.9%
	<i>Total</i>	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.589: Chi-Square Tests (Interface Backcolor * User Remember Faces)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	4.453 ^a	4	0.348
Likelihood Ratio	4.833	4	0.305
Linear-by-Linear Association	2.561	1	0.110
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .05.

Table A.590: Symmetric Measures (Interface Backcolor * User Remember Faces)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.041	0.348
	Cramer's V	0.029	0.348
	N of Valid Cases	2658	

Table A.591: Crosstab (Interface Menus * User Remember Faces)

		<i>User Remember Faces</i>				
			<i>Very Well</i>	<i>Sometimes</i>	<i>Not Exactly</i>	<i>Total</i>
Interface Menus	Not Available	Count	1	0	0	1
		% within User Remember Faces	0.1%	0.0%	0.0%	0.0%
	Horizontal	Count	987	728	93	1808
		% within User Remember Faces	67.2%	68.9%	69.9%	68.0%
	Vertical	Count	481	328	40	849
		% within User Remember Faces	32.7%	31.1%	30.1%	31.9%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.592: Chi-Square Tests (Interface Menus * User Remember Faces)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	1.858 ^a	4	0.762
Likelihood Ratio	2.237	4	0.692
Linear-by-Linear Association	0.934	1	0.334
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .05.

Table A.593: Symmetric Measures (Interface Menus * User Remember Faces)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.026	0.762
	Cramer's V	0.019	0.762
	N of Valid Cases	2658	

Table A.594: Crosstab (Interface Wizards * User Remember Faces)

		User Remember Faces				
			Very Well	Sometimes	Not Exactly	Total
Interface Wizards	Always	Count	161	107	6	274
		% within User Remember Faces	11.0%	10.1%	4.5%	10.3%
	Occasionally	Count	945	758	92	1795
		% within User Remember Faces	64.3%	71.8%	69.2%	67.5%
	Never	Count	363	191	35	589
		% within User Remember Faces	24.7%	18.1%	26.3%	22.2%
	Total	Count	1469	1056	133	2658
		% within User Remember Faces	100.0%	100.0%	100.0%	100.0%

Table A.595: Chi-Square Tests (Interface Wizards * User Remember Faces)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	23.333 ^a	4	0.000
Likelihood Ratio	24.785	4	0.000
Linear-by-Linear Association	0.744	1	0.388
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 13.71.

Table A.596: Symmetric Measures (Interface Wizards * User Remember Faces)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.094	0.000
	Cramer's V	0.066	0.000
	N of Valid Cases	2658	

B.12. User Remember Names Cross Tables

Table A.597: Crosstab (Interface Logo Position * User Remember Names)

			<i>User Remember Names</i>				
			<i>Not Available</i>	<i>Very Well</i>	<i>Sometimes</i>	<i>Not Exactly</i>	<i>Total</i>
Interface Logo Position	Not Available	Count	0	1	4	0	5
		% within User Remember Names	0.0%	0.2%	0.3%	0.0%	0.2%
	Left	Count	0	478	1233	362	2073
		% within User Remember Names	.0%	72.8%	79.2%	81.7%	78.0%
	Center	Count	0	94	167	40	301
		% within User Remember Names	.0%	14.3%	10.7%	9.0%	11.3%
	Right	Count	1	84	153	41	279
		% within User Remember Names	100.0%	12.8%	9.8%	9.3%	10.5%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.598: Chi-Square Tests (Interface Logo Position * User Remember Names)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	25.493 ^a	9	0.002
Likelihood Ratio	21.899	9	0.009
Linear-by-Linear Association	11.544	1	0.001
N of Valid Cases	2658		

a. 7 cells (43.8%) have expected count less than 5. The minimum expected count is .00.

Table A.599: Symmetric Measures (Interface Logo Position * User Remember Names)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.098	0.002
	Cramer's V	0.057	0.002
N of Valid Cases		2658	

Table A.600: Crosstab (Interface Warnings * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Warnings	Not Available	Count	0	0	1	0	1
		% within User Remember Names	0.0%	0.0%	0.1%	0.0%	0.0%
	Pop-up	Count	0	64	110	36	210
		% within User Remember Names	0.0%	9.7%	7.1%	8.1%	7.9%
	On Form	Count	1	593	1446	407	2447
		% within User Remember Names	100.0%	90.3%	92.9%	91.9%	92.1%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.601: Chi-Square Tests (Interface Warnings * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.360 ^a	6	0.499
Likelihood Ratio	5.657	6	0.463
Linear-by-Linear Association	1.440	1	0.230
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.602: Symmetric Measures (Interface Warnings * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.045	0.499
	Cramer's V	0.032	0.499
	N of Valid Cases	2658	

Table A.603: Crosstab (Interface Forecolor * User Remember Names)

		User Remember Names					Total
		Not Available	Very Well	Sometimes	Not Exactly		
Interface Forecolor Available	Not Available	Count	1	1	0	0	2
		% within					
	Black	Count	0	123	245	84	452
		% within					
		User Remember Names	100.0%	0.2%	0.0%	0.0%	0.1%
	White	Count	0	533	1312	359	2204
		% within					
		User Remember Names	0.0%	81.1%	84.3%	81.0%	82.9%
	Total	Count	1	657	1557	443	2658
		% within					
		User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.604: Chi-Square Tests (Interface Forecolor * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.334E3	6	0.000
Likelihood Ratio	22.154	6	0.001
Linear-by-Linear Association	0.404	1	0.525
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.605: Symmetric Measures (Interface Forecolor * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.709	0.000
	Cramer's V	0.501	0.000
	N of Valid Cases	2658	

Table A.606: Crosstab (Interface Paragraphs * User Remember Names)

		User Remember Names					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Paragraphs	Not Available	Count	0	1	0	0	1
		% within User Remember Names	0.0%	0.2%	0.0%	0.0%	0.0%
	Aligned	Count	0	360	998	288	1646
		% within User Remember Names	0.0%	54.8%	64.1%	65.0%	61.9%
	Justified	Count	1	296	559	155	1011
		% within User Remember Names	100.0%	45.1%	35.9%	35.0%	38.0%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.607: Chi-Square Tests (Interface Paragraphs * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	23.387 ^a	6	0.001
Likelihood Ratio	23.223	6	0.001
Linear-by-Linear Association	13.979	1	0.000
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.608: Symmetric Measures (Interface Paragraphs * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.094	0.001
	Cramer's V	0.066	0.001
	N of Valid Cases	2658	

Table A.609: Crosstab (Interface Progress Bars * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Progress Bars	Not Available	Count	0	2	0	0	2
		% within User Remember Names	0.0%	0.3%	0.0%	0.0%	0.1%
	Only Text	Count	0	45	98	36	179
		% within User Remember Names	0.0%	6.8%	6.3%	8.1%	6.7%
	Progress Bar	Count	1	610	1459	407	2477
		% within User Remember Names	100.0%	92.8%	93.7%	91.9%	93.2%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.610: Chi-Square Tests (Interface Progress Bars * User Remember Names)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	8.034 ^a	6	0.236
Likelihood Ratio	7.532	6	0.274
Linear-by-Linear Association	0.049	1	0.825
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.611: Symmetric Measures (Interface Progress Bars * User Remember Names)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.055	0.236
	Cramer's V	0.039	0.236
	N of Valid Cases	2658	

Table A.612: Crosstab (Interface Label Position * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Exactly	Total
Interface Label Position	Not Available	Count	1	0	1	0	2
		% within User Remember Names	100.0%	0.0%	0.1%	0.0%	0.1%
	On The Top	Count	0	205	394	109	708
		% within User Remember Names	0.0%	31.2%	25.3%	24.6%	26.6%
	On The Left	Count	0	452	1162	334	1948
		% within User Remember Names	0.0%	68.8%	74.6%	75.4%	73.3%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.613: Chi-Square Tests (Interface Label Position * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.338E3	6	0.000
Likelihood Ratio	25.188	6	0.000
Linear-by-Linear Association	8.268	1	0.004
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.614: Symmetric Measures (Interface Label Position * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.710	0.000
	Cramer's V	0.502	0.000
	N of Valid Cases	2658	

Table A.615: Crosstab (Interface Windows * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Windows	Not Available	Count	0	0	1	1	2
		% within					
		User Remember Names	0.0%	0.0%	0.1%	0.2%	0.1%
	Windows	Count	0	204	424	133	761
		% within					
		User Remember Names	0.0%	31.1%	27.2%	30.0%	28.6%
	One Screen	Count	1	453	1132	309	1895
		% within					
		User Remember Names	100.0%	68.9%	72.7%	69.8%	71.3%
	Total	Count	1	657	1557	443	2658
		% within					
		User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.616: Chi-Square Tests (Interface Windows * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.051 ^a	6	0.417
Likelihood Ratio	6.332	6	0.387
Linear-by-Linear Association	0.208	1	0.648
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.617: Symmetric Measures (Interface Windows * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.048	0.417
	Cramer's V	0.034	0.417
	N of Valid Cases	2658	

Table A.618: Crosstab (Interface Form Icons * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Form Icons	Right	Count	1	444	1040	285	1770
		% within User Remember Names	100.0%	67.6%	66.8%	64.3%	66.6%
	Left	Count	0	213	517	158	888
		% within User Remember Names	0.0%	32.4%	33.2%	35.7%	33.4%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.619: Chi-Square Tests (Interface Form Icons * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.834 ^a	3	0.608
Likelihood Ratio	2.136	3	0.545
Linear-by-Linear Association	1.218	1	0.270
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .33.

Table A.620: Symmetric Measures (Interface Form Icons * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.026	0.608
	Cramer's V	0.026	0.608
	N of Valid Cases	2658	

Table A.621: Crosstab (Interface Start Menu * User Remember Names)

		User Remember Names					
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Start Menu	Not Available	Count	1	0	0	0	1
		% within User Remember Names	100.0%	0.0%	0.0%	0.0%	0.0%
	Bottom	Count	0	519	1233	347	2099
		% within User Remember Names	0.0%	79.0%	79.2%	78.3%	79.0%
	Left	Count	0	27	51	21	99
		% within User Remember Names	0.0%	4.1%	3.3%	4.7%	3.7%
	Top	Count	0	91	245	67	403
		% within User Remember Names	0.0%	13.9%	15.7%	15.1%	15.2%
	Right	Count	0	20	28	8	56
		% within User Remember Names	0.0%	3.0%	1.8%	1.8%	2.1%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.622: Chi-Square Tests (Interface Start Menu * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.665E3	12	0.000
Likelihood Ratio	24.510	12	0.017
Linear-by-Linear Association	0.001	1	0.974
N of Valid Cases	2658		

a. 8 cells (40.0%) have expected count less than 5. The minimum expected count is .00.

Table A.623: Symmetric Measures (Interface Start Menu * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.001	0.000
	Cramer's V	0.578	0.000
	N of Valid Cases	2658	

Table A.624: Crosstab (Interface Human or Robot Operator * User Remember Names)

		<i>User Remember Names</i>				
		<i>Not Available</i>	<i>Very Well</i>	<i>Sometimes</i>	<i>Not Exactly</i>	<i>Total</i>
Interface Human or Robot Operator	Human Count	1	555	1323	356	2235
	% within					
	User Remember Names	100.0%	84.5%	85.0%	80.4%	84.1%
	Robot Count	0	102	234	87	423
	% within					
	User Remember Names	0.0%	15.5%	15.0%	19.6%	15.9%
	Total Count	1	657	1557	443	2658
	% within					
	User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.625: Chi-Square Tests (Interface Human or Robot Operator * User Remember Names)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	5.768 ^a	3	0.123
Likelihood Ratio	5.681	3	0.128
Linear-by-Linear Association	2.581	1	0.108
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .16.

Table A.626: Symmetric Measures (Interface Human or Robot Operator * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.047	0.123
	Cramer's V	0.047	0.123
	N of Valid Cases	2658	

Table A.627: Crosstab (Interface Icon Position * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Icon Position	Not Available	Count	0	0	1	0	1
		% within User Remember Names	0.0%	0.0%	0.1%	0.0%	0.0%
	Top	Count	0	170	320	93	583
		% within User Remember Names	0.0%	25.9%	20.6%	21.0%	21.9%
	Left	Count	0	428	1125	318	1871
		% within User Remember Names	0.0%	65.1%	72.3%	71.8%	70.4%
	Right	Count	1	44	87	32	164
		% within User Remember Names	100.0%	6.7%	5.6%	7.2%	6.2%
	Bottom	Count	0	15	24	0	39
		% within User Remember Names	0.0%	2.3%	1.5%	.0%	1.5%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.628: Chi-Square Tests (Interface Icon Position * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	37.047 ^a	12	0.000
Likelihood Ratio	33.648	12	0.001
Linear-by-Linear Association	0.074	1	0.785
N of Valid Cases	2658		

a. 8 cells (40.0%) have expected count less than 5. The minimum expected count is .00.

Table A.629: Symmetric Measures (Interface Icon Position * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.118	0.000
	Cramer's V	0.068	0.000
	N of Valid Cases	2658	

Table A.630: Crosstab (Interface Widgets * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Widgets	I Love	Count	0	355	693	167	1215
		% within User Remember Names	0.0%	54.0%	44.5%	37.7%	45.7%
	I Hate	Count	1	302	864	276	1443
		% within User Remember Names	100.0%	46.0%	55.5%	62.3%	54.3%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.631: Chi-Square Tests (Interface Widgets * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	31.550 ^a	3	0.000
Likelihood Ratio	32.000	3	0.000
Linear-by-Linear Association	29.543	1	0.000
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .46.

Table A.632: Symmetric Measures (Interface Widgets * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.109	0.000
	Cramer's V	0.109	0.000
	N of Valid Cases	2658	

Table A.633: Crosstab (Interface Menu Icons * User Remember Names)

			User Remember Names				
			Not Available	Very Well	Sometimes	Exactly	Total
Interface Menu Icons	Not Available	Count	0	1	0	0	1
		% within User Remember Names	0.0%	0.2%	0.0%	0.0%	0.0%
	Important	Count	1	583	1383	372	2339
		% within User Remember Names	100.0%	88.7%	88.8%	84.0%	88.0%
	Not Important	Count	0	73	174	71	318
		% within User Remember Names	0.0%	11.1%	11.2%	16.0%	12.0%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.634: Chi-Square Tests (Interface Menu Icons * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.481 ^a	6	0.075
Likelihood Ratio	10.796	6	0.095
Linear-by-Linear Association	5.332	1	0.021
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.635: Symmetric Measures (Interface Menu Icons * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.066	0.075
	Cramer's V	0.046	0.075
	N of Valid Cases	2658	

Table A.636: Crosstab (Interface Computer Desktop * User Remember Names)

		User Remember Names					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Computer Desktop	Organized	Count	1	554	1272	351	2178
		% within					
		User Remember Names	100.0%	84.3%	81.7%	79.2%	81.9%
	Untidy	Count	0	103	285	92	480
		% within					
		User Remember Names	0.0%	15.7%	18.3%	20.8%	18.1%
	Total	Count	1	657	1557	443	2658
		% within					
		User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.637: Chi-Square Tests (Interface Computer Desktop * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.998 ^a	3	0.172
Likelihood Ratio	5.190	3	0.158
Linear-by-Linear Association	4.877	1	0.027
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .18.

Table A.638: Symmetric Measures (Interface Computer Desktop * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.043	0.172
	Cramer's V	0.043	0.172
	N of Valid Cases	2658	

Table A.639: Crosstab (Interface Backcolor * User Remember Names)

		User Remember Names					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Backcolor	Not Available	Count	1	0	0	0	1
		% within User Remember Names	100.0%	0.0%	0.0%	0.0%	0.0%
	Black	Count	0	307	667	225	1199
		% within User Remember Names	0.0%	46.7%	42.8%	50.8%	45.1%
	White	Count	0	350	890	218	1458
		% within User Remember Names	0.0%	53.3%	57.2%	49.2%	54.9%
	Total	Count	1	657	1557	443	2658
		% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.640: Chi-Square Tests (Interface Backcolor * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.668E3	6	0.000
Likelihood Ratio	27.459	6	0.000
Linear-by-Linear Association	0.498	1	0.480
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.641: Symmetric Measures (Interface Backcolor * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.002	0.000
	Cramer's V	0.708	0.000
	N of Valid Cases	2658	

Table A.642: Crosstab (Interface Menus * User Remember Names)

		User Remember Names				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Not Menus Available	Count	1	0	0	0	1
	% within User Remember Names	100.0%	0.0%	0.0%	0.0%	0.0%
Horizontal	Count	0	431	1068	309	1808
	% within User Remember Names	0.0%	65.6%	68.6%	69.8%	68.0%
Vertical	Count	0	226	489	134	849
	% within User Remember Names	0.0%	34.4%	31.4%	30.2%	31.9%
Total	Count	1	657	1557	443	2658
	% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.643: Chi-Square Tests (Interface Menus * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.661E3	6	0.000
Likelihood Ratio	20.367	6	0.002
Linear-by-Linear Association	1.877	1	0.171
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.644: Symmetric Measures (Interface Menus * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.000	0.000
	Cramer's V	0.707	0.000
	N of Valid Cases	2658	

Table A.645: Crosstab (Interface Wizards * User Remember Names)

		User Remember Names				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Always Wizards	Count	0	96	141	37	274
	% within User Remember Names	0.0%	14.6%	9.1%	8.4%	10.3%
Occasionally	Count	1	419	1090	285	1795
	% within User Remember Names	100.0%	63.8%	70.0%	64.3%	67.5%
Never	Count	0	142	326	121	589
	% within User Remember Names	0.0%	21.6%	20.9%	27.3%	22.2%
Total	Count	1	657	1557	443	2658
	% within User Remember Names	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.646: Chi-Square Tests (Interface Wizards * User Remember Names)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	26.203 ^a	6	0.000
Likelihood Ratio	25.028	6	0.000
Linear-by-Linear Association	11.980	1	0.001
N of Valid Cases	2658		

a. 3 cells (25.0%) have expected count less than 5. The minimum expected count is .10.

Table A.647: Symmetric Measures (Interface Wizards * User Remember Names)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.099	0.000
	Cramer's V	0.070	0.000
	N of Valid Cases	2658	

B.13. User Remember Numbers Cross Tables

Table A.648: Crosstab (Interface Logo Position * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Logo Position	Not Available	Count	0	2	3	0	5
		% within User Remember Numbers	0.0%	0.2%	0.2%	0.0%	0.2%
	Left	Count	0	678	1163	232	2073
		% within User Remember Numbers	0.0%	75.9%	79.2%	78.6%	78.0%
	Center	Count	0	115	153	33	301
		% within User Remember Numbers	0.0%	12.9%	10.4%	11.2%	11.3%
	Right	Count	1	98	150	30	279
		% within User Remember Numbers	100.0%	11.0%	10.2%	10.2%	10.5%
	Total	Count	1	893	1469	295	2658
% within User Remember Numbers		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A.649: Chi-Square Tests (Interface Logo Position * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	13.249 ^a	9	0.152
Likelihood Ratio	9.731	9	0.373
Linear-by-Linear Association	1.624	1	0.203
N of Valid Cases	2658		

a. 7 cells (43.8%) have expected count less than 5. The minimum expected count is .00.

Table A.650: Symmetric Measures (Interface Logo Position * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.071	0.152
	Cramer's V	0.041	0.152
	N of Valid Cases	2658	

Table A.651: Crosstab (Interface Warnings * User Remember Numbers)

		User Remember Numbers					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Warnings	Not Available	Count	0	0	1	0	1
		% within User Remember Numbers	0.0%	0.0%	0.1%	0.0%	0.0%
	Pop-up	Count	0	61	131	18	210
		% within User Remember Numbers	0.0%	6.8%	8.9%	6.1%	7.9%
	On Form	Count	1	832	1337	277	2447
		% within User Remember Numbers	100.0%	93.2%	91.0%	93.9%	92.1%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.652: Chi-Square Tests (Interface Warnings * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.722 ^a	6	0.455
Likelihood Ratio	6.266	6	0.394
Linear-by-Linear Association	0.301	1	0.583
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.653: Symmetric Measures (Interface Warnings * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.046	0.455
	Cramer's V	0.033	0.455
	N of Valid Cases	2658	

Table A.654: Crosstab (Interface Forecolor * User Remember Numbers)

		User Remember Numbers					Total
		Not Available	Very Well	Sometimes	Not Exactly		
Interface Forecolor Available	Not Available	Count	1	0	1	0	2
		% within User Remember Numbers	100.0%	0.0%	0.1%	0.0%	0.1%
Black		Count	0	154	253	45	452
		% within User Remember Numbers	0.0%	17.2%	17.2%	15.3%	17.0%
White		Count	0	739	1215	250	2204
		% within User Remember Numbers	0.0%	82.8%	82.7%	84.7%	82.9%
Total		Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.655: Chi-Square Tests (Interface Forecolor * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.330E3	6	0.000
Likelihood Ratio	16.933	6	0.010
Linear-by-Linear Association	0.667	1	0.414
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.656: Symmetric Measures (Interface Forecolor * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.707	0.000
	Cramer's V	0.500	0.000
	N of Valid Cases	2658	

Table A.657: Crosstab (Interface Paragraphs * User Remember Numbers)

		User Remember Numbers					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Paragraphs	Not Available	Count	0	1	0	0	1
		% within User Remember Numbers	0.0%	0.1%	0.0%	0.0%	0.0%
	Aligned	Count	0	509	927	210	1646
		% within User Remember Numbers	0.0%	57.0%	63.1%	71.2%	61.9%
	Justified	Count	1	383	542	85	1011
		% within User Remember Numbers	100.0%	42.9%	36.9%	28.8%	38.0%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.658: Chi-Square Tests (Interface Paragraphs * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	24.149 ^a	6	0.000
Likelihood Ratio	24.955	6	0.000
Linear-by-Linear Association	20.184	1	0.000
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.659: Symmetric Measures (Interface Paragraphs * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.095	0.000
	Cramer's V	0.067	0.000
	N of Valid Cases	2658	

Table A.660: Crosstab (Interface Progress Bars * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Progress Bars	Not Available	Count	0	1	1	0	2
		% within User Remember Numbers	0.0%	0.1%	0.1%	0.0%	0.1%
	Only Text	Count	0	65	96	18	179
		% within User Remember Numbers	0.0%	7.3%	6.5%	6.1%	6.7%
	Progress Bar	Count	1	827	1372	277	2477
		% within User Remember Numbers	100.0%	92.6%	93.4%	93.9%	93.2%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.661: Chi-Square Tests (Interface Progress Bars * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.175 ^a	6	0.978
Likelihood Ratio	1.441	6	0.963
Linear-by-Linear Association	0.853	1	0.356
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.662: Symmetric Measures (Interface Progress Bars * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.021	0.978
	Cramer's V	0.015	0.978
	N of Valid Cases	2658	

Table A.663: Crosstab (Interface Label Position * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Label Position	Not Available	Count	1	1	0	0	2
		% within User Remember Numbers	100.0%	0.1%	0.0%	0.0%	0.1%
	On The Top	Count	0	261	366	81	708
		% within User Remember Numbers	0.0%	29.2%	24.9%	27.5%	26.6%
	On The Left	Count	0	631	1103	214	1948
		% within User Remember Numbers	0.0%	70.7%	75.1%	72.5%	73.3%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.664: Chi-Square Tests (Interface Label Position * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.335E3	6	0.000
Likelihood Ratio	22.620	6	0.001
Linear-by-Linear Association	3.059	1	0.080
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.665: Symmetric Measures (Interface Label Position * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.709	0.000
	Cramer's V	0.501	0.000
	N of Valid Cases	2658	

Table A.666: Crosstab (Interface Windows * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Windows	Not Available	Count	0	1	0	1	2
		% within User Remember Numbers	0.0%	0.1%	0.0%	0.3%	0.1%
	Windows	Count	0	271	417	73	761
		% within User Remember Numbers	0.0%	30.3%	28.4%	24.7%	28.6%
One Screen		Count	1	621	1052	221	1895
		% within User Remember Numbers	100.0%	69.5%	71.6%	74.9%	71.3%
Total		Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.667: Chi-Square Tests (Interface Windows * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.848 ^a	6	0.249
Likelihood Ratio	7.986	6	0.239
Linear-by-Linear Association	2.936	1	0.087
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.668: Symmetric Measures (Interface Windows * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.054	0.249
	Cramer's V	0.038	0.249
	N of Valid Cases	2658	

Table A.669: Crosstab (Interface Form Icons * User Remember Numbers)

		User Remember Numbers				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Form Icons	Right Count	1	588	1001	180	1770
	% within User					
	Remember Numbers	100.0%	65.8%	68.1%	61.0%	66.6%
	Left Count	0	305	468	115	888
	% within User					
	Remember Numbers	0.0%	34.2%	31.9%	39.0%	33.4%
	Total Count	1	893	1469	295	2658
	% within User					
	Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.670: Chi-Square Tests (Interface Form Icons * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.432 ^a	3	0.092
Likelihood Ratio	6.655	3	0.084
Linear-by-Linear Association	0.465	1	0.496
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .33.

Table A.671: Symmetric Measures (Interface Form Icons * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.049	0.092
	Cramer's V	0.049	0.092
	N of Valid Cases	2658	

Table A.672: Crosstab (Interface Start Menu * User Remember Numbers)

		User Remember Numbers					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Start Menu	Not Available	Count	1	0	0	0	1
		% within User Remember Numbers	100.0%	0.0%	0.0%	0.0%	0.0%
	Bottom	Count	0	699	1173	227	2099
		% within User Remember Numbers	0.0%	78.3%	79.9%	76.9%	79.0%
	Left	Count	0	43	44	12	99
		% within User Remember Numbers	0.0%	4.8%	3.0%	4.1%	3.7%
	Top	Count	0	134	224	45	403
		% within User Remember Numbers	0.0%	15.0%	15.2%	15.3%	15.2%
	Right	Count	0	17	28	11	56
		% within User Remember Numbers	0.0%	1.9%	1.9%	3.7%	2.1%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.673: Chi-Square Tests (Interface Start Menu * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.668E3	12	0.000
Likelihood Ratio	26.556	12	0.009
Linear-by-Linear Association	0.407	1	0.524
N of Valid Cases	2658		

a. 8 cells (40.0%) have expected count less than 5. The minimum expected count is .00.

Table A.674: Symmetric Measures (Interface Start Menu * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.002	0.000
	Cramer's V	0.578	0.000
	N of Valid Cases	2658	

Table A.675: Crosstab (Interface Human or Robot Operator * User Remember Numbers)

		User Remember Numbers				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Human or Robot Operator	Human Count	1	732	1260	242	2235
	% within User					
	Remember Numbers	100.0%	82.0%	85.8%	82.0%	84.1%
	Robot Count	0	161	209	53	423
	% within User					
	Remember Numbers	0.0%	18.0%	14.2%	18.0%	15.9%
Total Count		1	893	1469	295	2658

Table A.675: Crosstab (Interface Human or Robot Operator * User Remember Numbers)

		User Remember Numbers				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Human or Robot Operator	Human Count	1	732	1260	242	2235
	% within User					
	Remember Numbers	100.0%	82.0%	85.8%	82.0%	84.1%
	Robot Count	0	161	209	53	423
	% within User					
	Remember Numbers	0.0%	18.0%	14.2%	18.0%	15.9%
	Total Count	1	893	1469	295	2658
	% within User					
	Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.676: Chi-Square Tests (Interface Human or Robot Operator * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.226 ^a	3	0.065
Likelihood Ratio	7.348	3	0.062
Linear-by-Linear Association	1.107	1	0.293
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .16.

Table A.677: Symmetric Measures (Interface Human or Robot Operator * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.065
	Cramer's V	0.052	0.065
	N of Valid Cases	2658	

Table A.678: Crosstab (Interface Icon Position * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Exactly	Total
Interface Icon Position	Not Available	Count	0	0	1	0	1
		% within User Remember Numbers	0.0%	0.0%	0.1%	0.0%	0.0%
	Top	Count	0	191	306	86	583
		% within User Remember Numbers	0.0%	21.4%	20.8%	29.2%	21.9%
	Left	Count	0	629	1053	189	1871
		% within User Remember Numbers	0.0%	70.4%	71.7%	64.1%	70.4%
	Right	Count	1	59	88	16	164
		% within User Remember Numbers	100.0%	6.6%	6.0%	5.4%	6.2%
	Bottom	Count	0	14	21	4	39
		% within User Remember Numbers	.0%	1.6%	1.4%	1.4%	1.5%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.679: Chi-Square Tests (Interface Icon Position * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	26.705 ^a	12	0.009
Likelihood Ratio	16.852	12	0.155
Linear-by-Linear Association	4.083	1	0.043
N of Valid Cases	2658		

a. 9 cells (45.0%) have expected count less than 5. The minimum expected count is .00.

Table A.680: Symmetric Measures (Interface Icon Position * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.100	0.009
	Cramer's V	0.058	0.009
	N of Valid Cases	2658	

Table A.681: Crosstab (Interface Widgets * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Widgets	I Love	Count	0	411	678	126	1215
		% within User Remember Numbers	0.0%	46.0%	46.2%	42.7%	45.7%
	I Hate	Count	1	482	791	169	1443
		% within User Remember Numbers	100.0%	54.0%	53.8%	57.3%	54.3%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.682: Chi-Square Tests (Interface Widgets * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.063 ^a	3	0.559
Likelihood Ratio	2.447	3	0.485
Linear-by-Linear Association	0.439	1	0.507
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .46.

Table A.683: Symmetric Measures (Interface Widgets * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.028	0.559
	Cramer's V	0.028	0.559
	N of Valid Cases	2658	

Table A.684: Crosstab (Interface Menu Icons * User Remember Numbers)

			User Remember Numbers				
			Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Menu Icons	Not Available	Count	0	1	0	0	1
		% within User Remember Numbers	0.0%	0.1%	0.0%	0.0%	0.0%
	Important	Count	1	782	1306	250	2339
		% within User Remember Numbers	100.0%	87.6%	88.9%	84.7%	88.0%
	Not Important	Count	0	110	163	45	318
		% within User Remember Numbers	0.0%	12.3%	11.1%	15.3%	12.0%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.685: Chi-Square Tests (Interface Menu Icons * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.311 ^a	6	0.389
Likelihood Ratio	6.445	6	0.375
Linear-by-Linear Association	0.511	1	0.475
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.686: Symmetric Measures (Interface Menu Icons * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.049	0.389
	Cramer's V	0.034	0.389
	N of Valid Cases	2658	

Table A.687: Crosstab (Interface Computer Desktop * User Remember Numbers)

		User Remember Numbers					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Computer Desktop	Organized	Count	1	738	1203	236	2178
		% within User Remember Numbers	100.0%	82.6%	81.9%	80.0%	81.9%
	Untidy	Count	0	155	266	59	480
		% within User Remember Numbers	0.0%	17.4%	18.1%	20.0%	18.1%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.688: Chi-Square Tests (Interface Computer Desktop * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.271 ^a	3	0.736
Likelihood Ratio	1.432	3	0.698
Linear-by-Linear Association	0.976	1	0.323
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .18.

Table A.689: Symmetric Measures (Interface Computer Desktop * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.022	0.736
	Cramer's V	0.022	0.736
	N of Valid Cases	2658	

Table A.690: Crosstab (Interface Backcolor * User Remember Numbers)

		User Remember Numbers					
		Not Available	Very Well	Sometimes	Not Exactly	Total	
Interface Backcolor	Not Available	Count	1	0	0	0	1
		% within User Remember Numbers	100.0%	0.0%	0.0%	0.0%	0.0%
	Black	Count	0	411	664	124	1199
		% within User Remember Numbers	0.0%	46.0%	45.2%	42.0%	45.1%
	White	Count	0	482	805	171	1458
		% within User Remember Numbers	0.0%	54.0%	54.8%	58.0%	54.9%
	Total	Count	1	893	1469	295	2658
		% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.691: Chi-Square Tests (Interface Backcolor * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.659E3	6	0.000
Likelihood Ratio	19.209	6	0.004
Linear-by-Linear Association	1.507	1	0.220
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.692: Symmetric Measures (Interface Backcolor * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.000	0.000
	Cramer's V	0.707	0.000
	N of Valid Cases	2658	

Table A.693: Crosstab (Interface Menus * User Remember Numbers)

		User Remember Numbers				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Not Menus Available	Count	1	0	0	0	1
	% within User Remember Numbers	100.0%	0.0%	0.0%	0.0%	0.0%
Horizontal	Count	0	601	993	214	1808
	% within User Remember Numbers	0.0%	67.3%	67.6%	72.5%	68.0%
Vertical	Count	0	292	476	81	849
	% within User Remember Numbers	0.0%	32.7%	32.4%	27.5%	31.9%
Total	Count	1	893	1469	295	2658
	% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.694: Chi-Square Tests (Interface Menus * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.661E3	6	0.000
Likelihood Ratio	20.952	6	0.002
Linear-by-Linear Association	1.341	1	0.247
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.695: Symmetric Measures (Interface Menus * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.001	0.000
	Cramer's V	0.708	0.000
	N of Valid Cases	2658	

Table A.696: Crosstab (Interface Wizards * User Remember Numbers)

		User Remember Numbers				
		Not Available	Very Well	Sometimes	Not Exactly	Total
Interface Always Wizards	Count	0	100	142	32	274
	% within User Remember Numbers	0.0%	11.2%	9.7%	10.8%	10.3%
Occasionally	Count	1	577	1035	182	1795
	% within User Remember Numbers	100.0%	64.6%	70.5%	61.7%	67.5%
Never	Count	0	216	292	81	589
	% within User Remember Numbers	0.0%	24.2%	19.9%	27.5%	22.2%
Total	Count	1	893	1469	295	2658
	% within User Remember Numbers	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.697: Chi-Square Tests (Interface Wizards * User Remember Numbers)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.159 ^a	6	0.019
Likelihood Ratio	15.301	6	0.018
Linear-by-Linear Association	0.051	1	0.821
N of Valid Cases	2658		

a. 3 cells (25.0%) have expected count less than 5. The minimum expected count is .10.

Table A.698: Symmetric Measures (Interface Wizards * User Remember Numbers)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.076	0.019
	Cramer's V	0.053	0.019
	N of Valid Cases	2658	

B.14. User Mobile Phone Cross Tables

Table A.699: Crosstab (Interface Logo Position * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Logo Position	Not Available	Count	2	0	3	5
		% within User Mobile Phone	0.2%	0.0%	0.2%	0.2%
	Left	Count	758	126	1189	2073
		% within User Mobile Phone	75.6%	73.7%	80.1%	78.0%
	Center	Count	130	31	140	301
		% within User Mobile Phone	13.0%	18.1%	9.4%	11.3%
	Right	Count	112	14	153	279
		% within User Mobile Phone	11.2%	8.2%	10.3%	10.5%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.700: Chi-Square Tests (Interface Logo Position * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	17.758 ^a	6	0.007
Likelihood Ratio	17.240	6	0.008
Linear-by-Linear Association	3.976	1	0.046
N of Valid Cases	2658		

a. 3 cells (25.0%) have expected count less than 5. The minimum expected count is .32.

Table A.701: Symmetric Measures (Interface Logo Position * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.082	0.007
	Cramer's V	0.058	0.007
	N of Valid Cases	2658	

Table A.702: Crosstab (Interface Warnings * User Mobile Phone)

		User Mobile Phone				
			Functionality	Aesthetics	Complete	Total
Interface Warnings	Not Available	Count	0	0	1	1
		% within User Mobile Phone	0.0%	0.0%	0.1%	0.0%
	Pop-up	Count	82	23	105	210
		% within User Mobile Phone	8.2%	13.5%	7.1%	7.9%
	On Form	Count	920	148	1379	2447
		% within User Mobile Phone	91.8%	86.5%	92.9%	92.1%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.703: Chi-Square Tests (Interface Warnings * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.526 ^a	4	0.049
Likelihood Ratio	8.788	4	0.067
Linear-by-Linear Association	1.028	1	0.311
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .06.

Table A.704: Symmetric Measures (Interface Warnings * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.060	0.049
	Cramer's V	0.042	0.049
	N of Valid Cases	2658	

Table A.705: Crosstab (Interface Forecolor * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Forecolor	Not Available	Count	0	0	2	2
		% within User Mobile Phone	0.0%	0.0%	0.1%	0.1%
	Black	Count	183	31	238	452
		% within User Mobile Phone	18.3%	18.1%	16.0%	17.0%
	White	Count	819	140	1245	2204
		% within User Mobile Phone	81.7%	81.9%	83.8%	82.9%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.706: Chi-Square Tests (Interface Forecolor * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.818 ^a	4	0.431
Likelihood Ratio	4.559	4	0.336
Linear-by-Linear Association	1.652	1	0.199
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .13.

Table A.707: Symmetric Measures (Interface Forecolor * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.038	0.431
	Cramer's V	0.027	0.431
	N of Valid Cases	2658	

Table A.708: Crosstab (Interface Paragraphs * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Paragraphs	Not Available	Count	0	0	1	1
		% within User Mobile Phone	0.0%	0.0%	0.1%	0.0%
	Aligned	Count	616	102	928	1646
		% within User Mobile Phone	61.5%	59.6%	62.5%	61.9%
	Justified	Count	386	69	556	1011
		% within User Mobile Phone	38.5%	40.4%	37.4%	38.0%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.709: Chi-Square Tests (Interface Paragraphs * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.484 ^a	4	0.829
Likelihood Ratio	1.856	4	0.762
Linear-by-Linear Association	0.372	1	0.542
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .06.

Table A.710: Symmetric Measures (Interface Paragraphs * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.024	0.829
	Cramer's V	0.017	0.829
	N of Valid Cases	2658	

Table A.711: Crosstab (Interface Progress Bars * User Mobile Phone)

		User Mobile Phone				
			Functionality	Aesthetics	Complete	Total
Interface Progress Bars	Not Available	Count	0	1	1	2
		% within				
		User Mobile Phone	0.0%	0.6%	0.1%	0.1%
	Only Text	Count	61	11	107	179
		% within				
		User Mobile Phone	6.1%	6.4%	7.2%	6.7%
	Progress Bar	Count	941	159	1377	2477
		% within				
		User Mobile Phone	93.9%	93.0%	92.7%	93.2%
	Total	Count	1002	171	1485	2658
		% within				
		User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.712: Chi-Square Tests (Interface Progress Bars * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.892 ^a	4	0.096
Likelihood Ratio	5.114	4	0.276
Linear-by-Linear Association	1.381	1	0.240
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .13.

Table A.713: Symmetric Measures (Interface Progress Bars * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.054	0.096
	Cramer's V	0.039	0.096
	N of Valid Cases	2658	

Table A.714: Crosstab (Interface Label Position * User Mobile Phone)

		User Mobile Phone				
			Functionality	Aesthetics	Complete	Total
Interface Label Position	Not Available	Count	0	0	2	2
		% within				
		User Mobile Phone	0.0%	0.0%	0.1%	0.1%
	On The Top	Count	273	47	388	708
		% within				
		User Mobile Phone	27.2%	27.5%	26.1%	26.6%
	On The Left	Count	729	124	1095	1948
		% within				
		User Mobile Phone	72.8%	72.5%	73.7%	73.3%
	Total	Count	1002	171	1485	2658
		% within				
		User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.715: Chi-Square Tests (Interface Label Position * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.004 ^a	4	0.735
Likelihood Ratio	2.752	4	0.600
Linear-by-Linear Association	0.227	1	0.634
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .13.

Table A.716: Symmetric Measures (Interface Label Position * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.027	0.735
	Cramer's V	0.019	0.735
	N of Valid Cases	2658	

Table A.717: Crosstab (Interface Windows * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Windows	Not Available	Count	1	0	1	2
		% within User Mobile Phone	0.1%	0.0%	0.1%	0.1%
	Windows	Count	282	52	427	761
		% within User Mobile Phone	28.1%	30.4%	28.8%	28.6%
	One Screen	Count	719	119	1057	1895
		% within User Mobile Phone	71.8%	69.6%	71.2%	71.3%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.718: Chi-Square Tests (Interface Windows * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.604 ^a	4	0.963
Likelihood Ratio	0.722	4	0.949
Linear-by-Linear Association	0.072	1	0.788
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .13.

Table A.719: Symmetric Measures (Interface Windows * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.015	0.963
	Cramer's V	0.011	0.963
	N of Valid Cases	2658	

Table A.720: Crosstab (Interface Form Icons * User Mobile Phone)

		User Mobile Phone			
		Functionality	Aesthetics	Complete	Total
Interface Form Icons	Right Count	665	103	1002	1770
	% within User Mobile Phone	66.4%	60.2%	67.5%	66.6%
	Left Count	337	68	483	888
	% within User Mobile Phone	33.6%	39.8%	32.5%	33.4%
	Total Count	1002	171	1485	2658
	% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.721: Chi-Square Tests (Interface Form Icons * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.650 ^a	2	0.161
Likelihood Ratio	3.567	2	0.168
Linear-by-Linear Association	0.442	1	0.506
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 57.13.

Table A.722: Symmetric Measures (Interface Form Icons * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.037	0.161
	Cramer's V	0.037	0.161
	N of Valid Cases	2658	

Table A.723: Crosstab (Interface Start Menu * User Mobile Phone)

		User Mobile Phone				
			Functionality	Aesthetics	Complete	Total
Interface Start Menu	Not Available	Count	0	0	1	1
		% within User Mobile Phone	0.0%	0.0%	0.1%	0.0%
	Bottom	Count	812	122	1165	2099
		% within User Mobile Phone	81.0%	71.3%	78.5%	79.0%
	Left	Count	35	6	58	99
		% within User Mobile Phone	3.5%	3.5%	3.9%	3.7%
	Top	Count	135	37	231	403
		% within User Mobile Phone	13.5%	21.6%	15.6%	15.2%
	Right	Count	20	6	30	56
		% within User Mobile Phone	2.0%	3.5%	2.0%	2.1%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.724: Chi-Square Tests (Interface Start Menu * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.411 ^a	8	0.179
Likelihood Ratio	11.072	8	0.198
Linear-by-Linear Association	1.503	1	0.220
N of Valid Cases	2658		

a. 4 cells (26.7%) have expected count less than 5. The minimum expected count is .06.

Table A.725: Symmetric Measures (Interface Start Menu * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.066	0.179
	Cramer's V	0.046	0.179
	N of Valid Cases	2658	

Table A.726: Crosstab (Interface Human or Robot Operator * User Mobile Phone)

		User Mobile Phone			
		Functionality	Aesthetics	Complete	Total
Interface Human or Robot Operator	Human Count	837	153	1245	2235
	% within				
	User Mobile Phone	83.5%	89.5%	83.8%	84.1%
	Robot Count	165	18	240	423
	% within				
	User Mobile Phone	16.5%	10.5%	16.2%	15.9%
Total	Count	1002	171	1485	2658
	% within				
	User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.727: Chi-Square Tests (Interface Human or Robot Operator * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.006 ^a	2	0.135
Likelihood Ratio	4.419	2	0.110
Linear-by-Linear Association	0.011	1	0.917
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 27.21.

Table A.728: Symmetric Measures (Interface Human or Robot Operator * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.039	0.135
	Cramer's V	0.039	0.135
	N of Valid Cases	2658	

Table A.729: Crosstab (Interface Icon Position * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Icon Position	Not Available	Count	1	0	0	1
		% within User Mobile Phone	0.1%	0.0%	0.0%	0.0%
	Top	Count	215	45	323	583
		% within User Mobile Phone	21.5%	26.3%	21.8%	21.9%
	Left	Count	717	110	1044	1871
		% within User Mobile Phone	71.6%	64.3%	70.3%	70.4%
	Right	Count	56	11	97	164
		% within User Mobile Phone	5.6%	6.4%	6.5%	6.2%
	Bottom	Count	13	5	21	39
		% within User Mobile Phone	1.3%	2.9%	1.4%	1.5%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.730: Chi-Square Tests (Interface Icon Position * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.946 ^a	8	0.439
Likelihood Ratio	7.641	8	0.469
Linear-by-Linear Association	0.228	1	0.633
N of Valid Cases	2658		

a. 4 cells (26.7%) have expected count less than 5. The minimum expected count is .06.

Table A.731: Symmetric Measures (Interface Icon Position * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.439
	Cramer's V	0.039	0.439
	N of Valid Cases	2658	

Table A.732: Crosstab (Interface Widgets * User Mobile Phone)

			User Mobile Phone			
			Functionality	Aesthetics	Complete	Total
Interface Widgets	I	Count	480	82	653	1215
	Love	% within User Mobile Phone	47.9%	48.0%	44.0%	45.7%
	I	Count	522	89	832	1443
	Hate	% within User Mobile Phone	52.1%	52.0%	56.0%	54.3%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.733: Chi-Square Tests (Interface Widgets * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.096 ^a	2	0.129
Likelihood Ratio	4.095	2	0.129
Linear-by-Linear Association	3.834	1	0.050
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 78.17.

Table A.734: Symmetric Measures (Interface Widgets * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.039	0.129
	Cramer's V	0.039	0.129
	N of Valid Cases	2658	

Table A.735: Crosstab (Interface Menu Icons * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Menu Icons	Not Available	Count	0	0	1	1
		% within				
		User Mobile Phone	0.0%	0.0%	0.1%	0.0%
	Important	Count	904	149	1286	2339
		% within				
		User Mobile Phone	90.2%	87.1%	86.6%	88.0%
	Not Important	Count	98	22	198	318
		% within				
		User Mobile Phone	9.8%	12.9%	13.3%	12.0%
	Total	Count	1002	171	1485	2658
		% within				
		User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.736: Chi-Square Tests (Interface Menu Icons * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.133 ^a	4	0.087
Likelihood Ratio	8.686	4	0.069
Linear-by-Linear Association	6.749	1	0.009
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .06.

Table A.737: Symmetric Measures (Interface Menu Icons * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.087
	Cramer's V	0.039	0.087
	N of Valid Cases	2658	

Table A.738: Crosstab (Interface Computer Desktop * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Computer Desktop	Organized	Count	814	147	1217	2178
		% within				
		User	81.2%	86.0%	82.0%	81.9%
		Mobile				
		Phone				
		Untidy	Count	188	24	268
		% within				
		User	18.8%	14.0%	18.0%	18.1%
		Mobile				
		Phone				
	Total	Count	1002	171	1485	2658
		% within				
		User	100.0%	100.0%	100.0%	100.0%
		Mobile				
		Phone				

Table A.739: Chi-Square Tests (Interface Computer Desktop * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.206 ^a	2	0.332
Likelihood Ratio	2.326	2	0.313
Linear-by-Linear Association	0.147	1	0.702
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 30.88.

Table A.740: Symmetric Measures (Interface Computer Desktop * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.029	0.332
	Cramer's V	0.029	0.332
	N of Valid Cases	2658	

Table A.741: Crosstab (Interface Backcolor * User Mobile Phone)

		User Mobile Phone				
			Functionality	Aesthetics	Complete	Total
Interface Backcolor	Not Available	Count	0	0	1	1
		% within User Mobile Phone	0.0%	0.0%	0.1%	0.0%
	Black	Count	479	77	643	1199
		% within User Mobile Phone	47.8%	45.0%	43.3%	45.1%
	White	Count	523	94	841	1458
		% within User Mobile Phone	52.2%	55.0%	56.6%	54.9%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.742: Chi-Square Tests (Interface Backcolor * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.630 ^a	4	0.229
Likelihood Ratio	6.000	4	0.199
Linear-by-Linear Association	4.577	1	0.032
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .06.

Table A.743: Symmetric Measures (Interface Backcolor * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.046	0.229
	Cramer's V	0.033	0.229
N of Valid Cases		2658	

Table A.744: Crosstab (Interface Menus * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Menus	Not Available	Count	0	0	1	1
		% within User Mobile Phone	0.0%	0.0%	0.1%	0.0%
	Horizontal	Count	677	114	1017	1808
		% within User Mobile Phone	67.6%	66.7%	68.5%	68.0%
	Vertical	Count	325	57	467	849
		% within User Mobile Phone	32.4%	33.3%	31.4%	31.9%
	Total	Count	1002	171	1485	2658
		% within User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.745: Chi-Square Tests (Interface Menus * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.207 ^a	4	0.877
Likelihood Ratio	1.581	4	0.812
Linear-by-Linear Association	0.328	1	0.567
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .06.

Table A.746: Symmetric Measures (Interface Menus * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.021	0.877
	Cramer's V	0.015	0.877
	N of Valid Cases	2658	

Table A.747: Crosstab (Interface Wizards * User Mobile Phone)

		User Mobile Phone				
		Functionality	Aesthetics	Complete	Total	
Interface Wizards	Always	Count	123	22	129	274
		% within				
		User Mobile Phone	12.3%	12.9%	8.7%	10.3%
	Occasionally	Count	680	108	1007	1795
		% within				
		User Mobile Phone	67.9%	63.2%	67.8%	67.5%
	Never	Count	199	41	349	589
		% within				
		User Mobile Phone	19.9%	24.0%	23.5%	22.2%
	Total	Count	1002	171	1485	2658
		% within				
		User Mobile Phone	100.0%	100.0%	100.0%	100.0%

Table A.748: Chi-Square Tests (Interface Wizards * User Mobile Phone)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	13.004 ^a	4	0.011
Likelihood Ratio	12.989	4	0.011
Linear-by-Linear Association	10.096	1	0.001
N of Valid Cases	2658		

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 17.63.

Table A.749: Symmetric Measures (Interface Wizards * User Mobile Phone)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.070	0.011
	Cramer's V	0.049	0.011
	N of Valid Cases	2658	

B.15. User Real Desktop Cross Tables

Table A.750: Crosstab (Interface Logo Position * User Real Desktop)

		User Real Desktop				
		Not Available	Organized	Untidy	Total	
Interface Logo Position	Not Available	Count	0	3	2	5
		% within User Real Desktop	0.0%	0.2%	0.2%	0.2%
	Left	Count	1	1128	944	2073
		% within User Real Desktop	100.0%	76.8%	79.4%	78.0%
	Center	Count	0	183	118	301
		% within User Real Desktop	0.0%	12.5%	9.9%	11.3%
	Right	Count	0	154	125	279
		% within User Real Desktop	0.0%	10.5%	10.5%	10.5%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.751: Chi-Square Tests (Interface Logo Position * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.626 ^a	6	0.593
Likelihood Ratio	4.877	6	0.560
Linear-by-Linear Association	0.866	1	0.352
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.752: Symmetric Measures (Interface Logo Position * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.042	0.593
	Cramer's V	0.029	0.593
	N of Valid Cases	2658	

Table A.753: Crosstab (Interface Warnings * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Warnings	Not Available	Count	0	1	0	1
		% within User Real Desktop	0.0%	0.1%	0.0%	0.0%
	Pop-up	Count	0	131	79	210
		% within User Real Desktop	0.0%	8.9%	6.6%	7.9%
	On Form	Count	1	1336	1110	2447
		% within User Real Desktop	100.0%	91.0%	93.4%	92.1%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.754: Chi-Square Tests (Interface Warnings * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	5.610 ^a	4	0.230
Likelihood Ratio	6.123	4	0.190
Linear-by-Linear Association	5.077	1	0.024
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.755: Symmetric Measures (Interface Warnings * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.046	0.230
	Cramer's V	0.032	0.230
	N of Valid Cases	2658	

Table A.756: Crosstab (Interface Forecolor * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Forecolor	Not Available	Count	0	0	2	2
		% within User Real Desktop	0.0%	0.0%	0.2%	0.1%
	Black	Count	0	237	215	452
		% within User Real Desktop	0.0%	16.1%	18.1%	17.0%
	White	Count	1	1231	972	2204
		% within User Real Desktop	100.0%	83.9%	81.7%	82.9%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.757: Chi-Square Tests (Interface Forecolor * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.479 ^a	4	0.345
Likelihood Ratio	5.388	4	0.250
Linear-by-Linear Association	2.437	1	0.119

Table A.757: Chi-Square Tests (Interface Forecolor * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.479 ^a	4	0.345
Likelihood Ratio	5.388	4	0.250
Linear-by-Linear Association	2.437	1	0.119
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.758: Symmetric Measures (Interface Forecolor * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.041	0.345
	Cramer's V	0.029	0.345
	N of Valid Cases	2658	

Table A.759: Crosstab (Interface Paragraphs * User Real Desktop)

		User Real Desktop					
		Not Available			Organized	Untidy	Total
Interface Paragraphs	Not Available	Count	0	1	0	1	
		% within User Real Desktop	0.0%	0.1%	0.0%	0.0%	
	Aligned	Count	0	898	748	1646	
		% within User Real Desktop	0.0%	61.2%	62.9%	61.9%	
	Justified	Count	1	569	441	1011	
		% within User Real Desktop	100.0%	38.8%	37.1%	38.0%	
	Total	Count	1	1468	1189	2658	
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%	

Table A.760: Chi-Square Tests (Interface Paragraphs * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.242 ^a	4	0.518
Likelihood Ratio	3.923	4	0.416
Linear-by-Linear Association	0.837	1	0.360
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.761: Symmetric Measures (Interface Paragraphs * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.035	0.518
	Cramer's V	0.025	0.518
	N of Valid Cases	2658	

Table A.762: Crosstab (Interface Progress Bars * User Real Desktop)

		User Real Desktop				
		Not				
		Available	Organized	Untidy	Total	
Interface Progress Bars	Not Available	Count	0	1	1	2
		% within User Real Desktop	0.0%	0.1%	0.1%	0.1%
	Only Text	Count	0	92	87	179
		% within User Real Desktop	0.0%	6.3%	7.3%	6.7%
Progress Bar		Count	1	1375	1101	2477
		% within User Real Desktop	100.0%	93.7%	92.6%	93.2%
Total		Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.763: Chi-Square Tests (Interface Progress Bars * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.251 ^a	4	0.870
Likelihood Ratio	1.314	4	0.859
Linear-by-Linear Association	1.201	1	0.273
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.764: Symmetric Measures (Interface Progress Bars * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.022	0.870
	Cramer's V	0.015	0.870
N of Valid Cases		2658	

Table A.765: Crosstab (Interface Label Position * User Real Desktop)

		User Real Desktop				
		Not				
		Available	Organized	Untidy	Total	
Interface Label Position	Not Available	Count	0	1	1	2
		% within User Real Desktop	0.0%	0.1%	0.1%	0.1%
	On The Top	Count	0	422	286	708
		% within User Real Desktop	0.0%	28.7%	24.1%	26.6%
	On The Left	Count	1	1045	902	1948
		% within User Real Desktop	100.0%	71.2%	75.9%	73.3%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.766: Chi-Square Tests (Interface Label Position * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.779 ^a	4	0.100
Likelihood Ratio	8.071	4	0.089
Linear-by-Linear Association	7.014	1	0.008
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.767: Symmetric Measures (Interface Label Position * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.054	0.100
	Cramer's V	0.038	0.100
	N of Valid Cases	2658	

Table A.768: Crosstab (Interface Windows * User Real Desktop)

		User Real Desktop				
		Not				
		Available	Organized	Untidy	Total	
Interface Windows	Not Available	Count	0	2	0	2
		% within User Real Desktop	0.0%	0.1%	0.0%	0.1%
	Windows	Count	1	426	334	761
		% within User Real Desktop	100.0%	29.0%	28.1%	28.6%
	One Screen	Count	0	1040	855	1895
		% within User Real Desktop	0.0%	70.8%	71.9%	71.3%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.769: Chi-Square Tests (Interface Windows * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.416 ^a	4	0.353
Likelihood Ratio	5.178	4	0.270
Linear-by-Linear Association	0.584	1	0.445
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.770: Symmetric Measures (Interface Windows * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.041	0.353
	Cramer's V	0.029	0.353
	N of Valid Cases	2658	

Table A.771: Crosstab (Interface Form Icons * User Real Desktop)

		User Real Desktop			
		Not Available	Organized	Untidy	Total
Interface Form Icons	Right Count	1	944	825	1770
	% within User Real Desktop	100.0%	64.3%	69.4%	66.6%
	Left Count	0	524	364	888
	% within User Real Desktop	0.0%	35.7%	30.6%	33.4%
	Total Count	1	1468	1189	2658
	% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.772: Chi-Square Tests (Interface Form Icons * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.125 ^a	2	0.017
Likelihood Ratio	8.461	2	0.015
Linear-by-Linear Association	7.377	1	0.007
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .33.

Table A.773: Symmetric Measures (Interface Form Icons * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.017
	Cramer's V	0.055	0.017
	N of Valid Cases	2658	

Table A.774: Crosstab (Interface Start Menu * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Start Menu	Not Available	Count	0	0	1	1
		% within User Real Desktop	0.0%	0.0%	0.1%	0.0%
	Bottom	Count	1	1163	935	2099
		% within User Real Desktop	100.0%	79.2%	78.6%	79.0%
	Left	Count	0	53	46	99
		% within User Real Desktop	0.0%	3.6%	3.9%	3.7%
	Top	Count	0	224	179	403
		% within User Real Desktop	0.0%	15.3%	15.1%	15.2%
	Right	Count	0	28	28	56
		% within User Real Desktop	0.0%	1.9%	2.4%	2.1%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.775: Chi-Square Tests (Interface Start Menu * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.291 ^a	8	0.971
Likelihood Ratio	2.866	8	0.943
Linear-by-Linear Association	0.140	1	0.708
N of Valid Cases	2658		

a. 7 cells (46.7%) have expected count less than 5. The minimum expected count is .00.

Table A.776: Symmetric Measures (Interface Start Menu * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.029	0.971
	Cramer's V	0.021	0.971
	N of Valid Cases	2658	

Table A.777: Crosstab (Interface Human or Robot Operator * User Real Desktop)

		User Real Desktop			
		Not Available	Organized	Untidy	Total
Interface Human or Robot Operator	Human Count	1	1240	994	2235
	% within User Real Desktop	100.0%	84.5%	83.6%	84.1%
	Robot Count	0	228	195	423
	% within User Real Desktop	0.0%	15.5%	16.4%	15.9%
	Total Count	1	1468	1189	2658
	% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.778: Chi-Square Tests (Interface Human or Robot Operator * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.560 ^a	2	0.756
Likelihood Ratio	0.717	2	0.699
Linear-by-Linear Association	0.400	1	0.527
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .16.

Table A.779: Symmetric Measures (Interface Human or Robot Operator * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.015	0.756
	Cramer's V	0.015	0.756
	N of Valid Cases	2658	

Table A.780: Crosstab (Interface Icon Position * User Real Desktop)

		User Real Desktop				
		Not				
		Available	Organized	Untidy	Total	
Interface Icon Position	Not Available	Count	0	1	0	1
		% within User Real Desktop	0.0%	0.1%	0.0%	0.0%
	Top	Count	0	328	255	583
		% within User Real Desktop	0.0%	22.3%	21.4%	21.9%
	Left	Count	1	1023	847	1871
		% within User Real Desktop	100.0%	69.7%	71.2%	70.4%
	Right	Count	0	93	71	164
		% within User Real Desktop	0.0%	6.3%	6.0%	6.2%
	Bottom	Count	0	23	16	39
		% within User Real Desktop	0.0%	1.6%	1.3%	1.5%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.781: Chi-Square Tests (Interface Icon Position * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.056 ^a	8	0.979
Likelihood Ratio	2.715	8	0.951
Linear-by-Linear Association	0.008	1	0.929
N of Valid Cases	2658		

a. 7 cells (46.7%) have expected count less than 5. The minimum expected count is .00.

Table A.782: Symmetric Measures (Interface Icon Position * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.028	0.979
	Cramer's V	0.020	0.979
	N of Valid Cases	2658	

Table A.783: Crosstab (Interface Widgets * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Widgets	I	Count	0	712	503	1215
	Love	% within User Real Desktop	0.0%	48.5%	42.3%	45.7%
	I	Count	1	756	686	1443
	Hate	% within User Real Desktop	100.0%	51.5%	57.7%	54.3%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.784: Chi-Square Tests (Interface Widgets * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.008 ^a	2	0.004
Likelihood Ratio	11.402	2	0.003
Linear-by-Linear Association	9.803	1	0.002
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .46.

Table A.785: Symmetric Measures (Interface Widgets * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.064	0.004
	Cramer's V	0.064	0.004
	N of Valid Cases	2658	

Table A.786: Crosstab (Interface Menu Icons * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Menu Icons	Not Available	Count	0	1	0	1
		% within User Real Desktop	0.0%	0.1%	0.0%	0.0%
	Important	Count	1	1287	1051	2339
		% within User Real Desktop	100.0%	87.7%	88.4%	88.0%
	Not Important	Count	0	180	138	318
		% within User Real Desktop	0.0%	12.3%	11.6%	12.0%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.787: Chi-Square Tests (Interface Menu Icons * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.221 ^a	4	0.875
Likelihood Ratio	1.717	4	0.788
Linear-by-Linear Association	0.195	1	0.659
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.788: Symmetric Measures (Interface Menu Icons * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.021	0.875
	Cramer's V	0.015	0.875
	N of Valid Cases	2658	

Table A.789: Crosstab (Interface Computer Desktop * User Real Desktop)

		User Real Desktop			
		Not			Total
		Available	Organized	Untidy	
Interface Computer Desktop	Organized Count	1	1374	803	2178
	% within User Real Desktop	100.0%	93.6%	67.5%	81.9%
	Untidy Count	0	94	386	480
	% within User Real Desktop	0.0%	6.4%	32.5%	18.1%
	Total Count	1	1468	1189	2658
	% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.790: Chi-Square Tests (Interface Computer Desktop * User Real Desktop)

	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	3.017E2	2	0.000
Likelihood Ratio	313.213	2	0.000
Linear-by-Linear Association	301.362	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.791: Symmetric Measures (Interface Computer Desktop * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.337	0.000
	Cramer's V	0.337	0.000
	N of Valid Cases	2658	

Table A.792: Crosstab (Interface Backcolor * User Real Desktop)

		User Real Desktop				
		Not				
		Available	Organized	Untidy	Total	
Interface	Not	Count	0	0	1	1
Backcolor	Available	% within User Real Desktop	0.0%	0.0%	0.1%	0.0%
	Black	Count	0	677	522	1199
		% within User Real Desktop	0.0%	46.1%	43.9%	45.1%
	White	Count	1	791	666	1458
		% within User Real Desktop	100.0%	53.9%	56.0%	54.9%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.793: Chi-Square Tests (Interface Backcolor * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.316 ^a	4	0.506
Likelihood Ratio	4.068	4	0.397
Linear-by-Linear Association	0.999	1	0.318
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.794: Symmetric Measures (Interface Backcolor * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.035	0.506
	Cramer's V	0.025	0.506
	N of Valid Cases	2658	

Table A.795: Crosstab (Interface Menus * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Menus	Not Available	Count	0	0	1	1
		% within User Real Desktop	0.0%	0.0%	0.1%	0.0%
	Horizontal	Count	1	1019	788	1808
		% within User Real Desktop	100.0%	69.4%	66.3%	68.0%
	Vertical	Count	0	449	400	849
		% within User Real Desktop	0.0%	30.6%	33.6%	31.9%
	Total	Count	1	1468	1189	2658
		% within User Real Desktop	100.0%	100.0%	100.0%	100.0%

Table A.796: Chi-Square Tests (Interface Menus * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.578 ^a	4	0.333
Likelihood Ratio	5.247	4	0.263
Linear-by-Linear Association	2.779	1	0.096
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.797: Symmetric Measures (Interface Menus * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.042	0.333
	Cramer's V	0.029	0.333
	N of Valid Cases	2658	

Table A.798: Crosstab (Interface Wizards * User Real Desktop)

		User Real Desktop				
		Not			Total	
		Available	Organized	Untidy		
Interface Wizards	Always	Count	0	150	124	274
		% within User Real Desktop	0.0%	10.2%	10.4%	10.3%
	Occasionally	Count	1	957	837	1795
		% within User Real Desktop	100.0%	65.2%	70.4%	67.5%
	Never	Count	0	361	228	589
		% within User Real Desktop	0.0%	24.6%	19.2%	22.2%
Total	Count	1	1468	1189	2658	
	% within User Real Desktop	100.0%	100.0%	100.0%	100.0%	

Table A.799: Chi-Square Tests (Interface Wizards * User Real Desktop)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	11.839 ^a	4	0.019
Likelihood Ratio	12.231	4	0.016
Linear-by-Linear Association	6.609	1	0.010
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.800: Symmetric Measures (Interface Wizards * User Real Desktop)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.067	0.019
	Cramer's V	0.047	0.019
	N of Valid Cases	2658	

B.16. User Transmission Cross Tables

Table A.801: Crosstab (Interface Logo Position * User Transmission)

			User Transmission			
			Not			
			Available	Manual	Automatic	Total
Interface Logo Position	Not Available	Count	0	1	4	5
		% within User Transmission	0.0%	0.1%	0.4%	0.2%
	Left	Count	0	1245	828	2073
		% within User Transmission	0.0%	77.5%	78.9%	78.0%
	Center	Count	0	183	118	301
		% within User Transmission	0.0%	11.4%	11.2%	11.3%
	Right	Count	1	178	100	279
		% within User Transmission	100.0%	11.1%	9.5%	10.5%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.802: Chi-Square Tests (Interface Logo Position * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	13.587 ^a	6	0.035
Likelihood Ratio	9.589	6	0.143
Linear-by-Linear Association	2.278	1	0.131
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.803: Symmetric Measures (Interface Logo Position * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.071	0.035
	Cramer's V	0.051	0.035
	N of Valid Cases	2658	

Table A.804: Crosstab (Interface Warnings * User Transmission)

		User Transmission				
		Not				
		Available	Manual	Automatic	Total	
Interface Warnings	Not Available	Count	0	0	1	1
		% within User Transmission	0.0%	0.0%	0.1%	0.0%
	Pop-up	Count	0	129	81	210
		% within User Transmission	0.0%	8.0%	7.7%	7.9%
	On Form	Count	1	1478	968	2447
		% within User Transmission	100.0%	92.0%	92.2%	92.1%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.805: Chi-Square Tests (Interface Warnings * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.699 ^a	4	0.791
Likelihood Ratio	2.105	4	0.717
Linear-by-Linear Association	0.009	1	0.923
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.806: Symmetric Measures (Interface Warnings * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.025	0.791
	Cramer's V	0.018	0.791
	N of Valid Cases	2658	

Table A.807: Crosstab (Interface Forecolor * User Transmission)

		User Transmission				
		Not				
		Available	Manual	Automatic	Total	
Interface Forecolor	Not Available	Count	1	1	0	2
		% within User Transmission	100.0%	0.1%	.0%	0.1%
	Black	Count	0	280	172	452
		% within User Transmission	0.0%	17.4%	16.4%	17.0%
	White	Count	0	1326	878	2204
		% within User Transmission	0.0%	82.5%	83.6%	82.9%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.808: Chi-Square Tests (Interface Forecolor * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.329E3	4	0.000
Likelihood Ratio	16.505	4	0.002
Linear-by-Linear Association	1.085	1	0.298
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.809: Symmetric Measures (Interface Forecolor * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.707	0.000
	Cramer's V	0.500	0.000
	N of Valid Cases	2658	

Table A.810: Crosstab (Interface Paragraphs * User Transmission)

			User Transmission			
			Not			
			Available	Manual	Automatic	Total
Interface Paragraphs	Not Available	Count	0	1	0	1
		% within User Transmission	0.0%	0.1%	0.0%	0.0%
	Aligned	Count	0	988	658	1646
		% within User Transmission	0.0%	61.5%	62.7%	61.9%
	Justified	Count	1	618	392	1011
		% within User Transmission	100.0%	38.5%	37.3%	38.0%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.811: Chi-Square Tests (Interface Paragraphs * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.638 ^a	4	0.620
Likelihood Ratio	3.295	4	0.510
Linear-by-Linear Association	0.384	1	0.536
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.812: Symmetric Measures (Interface Paragraphs * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.032	0.620
	Cramer's V	0.022	0.620
	N of Valid Cases	2658	

Table A.813: Crosstab (Interface Progress Bars * User Transmission)

			User Transmission			
			Not			
			Available	Manual	Automatic	Total
Interface Progress Bars	Not Available	Count	0	1	1	2
		% within User Transmission	0.0%	0.1%	0.1%	0.1%
	Only Text	Count	0	121	58	179
		% within User Transmission	0.0%	7.5%	5.5%	6.7%
	Progress Bar	Count	1	1485	991	2477
		% within User Transmission	100.0%	92.4%	94.4%	93.2%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.814: Chi-Square Tests (Interface Progress Bars * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.224 ^a	4	0.377
Likelihood Ratio	4.384	4	0.357
Linear-by-Linear Association	3.573	1	0.059
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.815: Symmetric Measures (Interface Progress Bars * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.040	0.377
	Cramer's V	0.028	0.377
	N of Valid Cases	2658	

Table A.816: Crosstab (Interface Label Position * User Transmission)

		User Transmission				
		Not				
		Available	Manual	Automatic	Total	
Interface Label Position	Not Available	Count	1	1	0	2
		% within User Transmission	100.0%	0.1%	0.0%	0.1%
	On The Top	Count	0	431	277	708
		% within User Transmission	0.0%	26.8%	26.4%	26.6%
	On The Left	Count	0	1175	773	1948
		% within User Transmission	0.0%	73.1%	73.6%	73.3%
	Total	Count	1	1607	1050	2658
	% within User Transmission	100.0%	100.0%	100.0%	100.0%	

Table A.817: Chi-Square Tests (Interface Label Position * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.329E3	4	0.000
Likelihood Ratio	16.071	4	0.003
Linear-by-Linear Association	0.286	1	0.593
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.818: Symmetric Measures (Interface Label Position * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.707	0.000
	Cramer's V	0.500	0.000
	N of Valid Cases	2658	

Table A.819: Crosstab (Interface Windows * User Transmission)

		User Transmission				
			Not Available	Manual	Automatic	Total
Interface Windows	Not Available	Count	0	2	0	2
		% within User Transmission	0.0%	0.1%	0.0%	0.1%
	Windows	Count	0	468	293	761
		% within User Transmission	0.0%	29.1%	27.9%	28.6%
	One Screen	Count	1	1137	757	1895
		% within User Transmission	100.0%	70.8%	72.1%	71.3%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.820: Chi-Square Tests (Interface Windows * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.200 ^a	4	0.699
Likelihood Ratio	3.178	4	0.528
Linear-by-Linear Association	0.604	1	0.437
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.821: Symmetric Measures (Interface Windows * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.029	0.699
	Cramer's V	0.020	0.699
	N of Valid Cases	2658	

Table A.822: Crosstab (Interface Form Icons * User Transmission)

		<i>User Transmission</i>			
		<i>Not Available</i>	<i>Manual</i>	<i>Automatic</i>	<i>Total</i>
Interface Form Icons	Right Count	1	1085	684	1770
	% within User Transmission	100.0%	67.5%	65.1%	66.6%
	Left Count	0	522	366	888
	% within User Transmission	0.0%	32.5%	34.9%	33.4%
	Total Count	1	1607	1050	2658
	% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.823: Chi-Square Tests (Interface Form Icons * User Transmission)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	2.111 ^a	2	0.348
Likelihood Ratio	2.419	2	0.298
Linear-by-Linear Association	1.704	1	0.192
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .33.

Table A.824: Symmetric Measures (Interface Form Icons * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.028	0.348
	Cramer's V	0.028	0.348
	N of Valid Cases	2658	

Table A.825: Crosstab (Interface Start Menu * User Transmission)

			User Transmission			
			Not Available	Manual	Automatic	Total
Interface Start Menu	Not Available	Count	1	0	0	1
		% within User Transmission	100.0%	0.0%	0.0%	0.0%
	Bottom	Count	0	1284	815	2099
		% within User Transmission	0.0%	79.9%	77.6%	79.0%
	Left	Count	0	65	34	99
		% within User Transmission	0.0%	4.0%	3.2%	3.7%
	Top	Count	0	226	177	403
		% within User Transmission	0.0%	14.1%	16.9%	15.2%
	Right	Count	0	32	24	56
		% within User Transmission	0.0%	2.0%	2.3%	2.1%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.826: Chi-Square Tests (Interface Start Menu * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.663E3	8	0.000
Likelihood Ratio	22.808	8	0.004
Linear-by-Linear Association	3.364	1	0.067
N of Valid Cases	2658		

a. 7 cells (46.7%) have expected count less than 5. The minimum expected count is .00.

Table A.827: Symmetric Measures (Interface Start Menu * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.001	0.000
	Cramer's V	0.708	0.000
	N of Valid Cases	2658	

Table A.828: Crosstab (Interface Human or Robot Operator * User Transmission)

		User Transmission			
		Not Available	Manual	Automatic	Total
Interface Human or Robot Operator	Human Count	1	1383	851	2235
	% within User Transmission	100.0%	86.1%	81.0%	84.1%
	Robot Count	0	224	199	423
	% within User Transmission	0.0%	13.9%	19.0%	15.9%
	Total Count	1	1607	1050	2658
	% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.829: Chi-Square Tests (Interface Human or Robot Operator * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	12.117 ^a	2	0.002
Likelihood Ratio	12.103	2	0.002
Linear-by-Linear Association	12.053	1	0.001
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .16.

Table A.830: Symmetric Measures (Interface Human or Robot Operator * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.068	0.002
	Cramer's V	0.068	0.002
	N of Valid Cases	2658	

Table A.831: Crosstab (Interface Icon Position * User Transmission)

		User Transmission				
		Not				
		Available	Manual	Automatic	Total	
Interface	Not	Count	0	1	0	1
	Icon Position Available	% within User Transmission	0.0%	0.1%	0.0%	0.0%
	Top	Count	0	360	223	583
		% within User Transmission	0.0%	22.4%	21.2%	21.9%
	Left	Count	0	1134	737	1871
		% within User Transmission	0.0%	70.6%	70.2%	70.4%
	Right	Count	1	91	72	164
		% within User Transmission	100.0%	5.7%	6.9%	6.2%
	Bottom	Count	0	21	18	39
		% within User Transmission	0.0%	1.3%	1.7%	1.5%
Total		Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.832: Chi-Square Tests (Interface Icon Position * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	18.459 ^a	8	0.018
Likelihood Ratio	9.155	8	0.329
Linear-by-Linear Association	1.814	1	0.178
N of Valid Cases	2658		

a. 7 cells (46.7%) have expected count less than 5. The minimum expected count is .00.

Table A.833: Symmetric Measures (Interface Icon Position * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.083	0.018
	Cramer's V	0.059	0.018
	N of Valid Cases	2658	

Table A.834: Crosstab (Interface Widgets * User Transmission)

			User Transmission			
			Not Available	Manual	Automatic	Total
Interface Widgets	I Love	Count	0	703	512	1215
		% within User Transmission	0.0%	43.7%	48.8%	45.7%
	I Hate	Count	1	904	538	1443
		% within User Transmission	100.0%	56.3%	51.2%	54.3%
	Total	Count	1	1607	1050	2658
	% within User Transmission	100.0%	100.0%	100.0%	100.0%	

Table A.835: Chi-Square Tests (Interface Widgets * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.280 ^a	2	0.026
Likelihood Ratio	7.655	2	0.022
Linear-by-Linear Association	6.676	1	0.010
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .46.

Table A.836: Symmetric Measures (Interface Widgets * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.026
	Cramer's V	0.052	0.026
	N of Valid Cases	2658	

Table A.837: Crosstab (Interface Menu Icons * User Transmission)

		User Transmission				
		Not				
		Available	Manual	Automatic	Total	
Interface	Not	Count	0	1	0	1
Menu Icons	Available	% within User Transmission	0.0%	0.1%	0.0%	0.0%
	Important	Count	1	1405	933	2339
		% within User Transmission	100.0%	87.4%	88.9%	88.0%
	Not	Count	0	201	117	318
	Important	% within User Transmission	0.0%	12.5%	11.1%	12.0%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.838: Chi-Square Tests (Interface Menu Icons * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.926 ^a	4	0.749
Likelihood Ratio	2.405	4	0.662
Linear-by-Linear Association	0.975	1	0.323
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.839: Symmetric Measures (Interface Menu Icons * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.027	0.749
	Cramer's V	0.019	0.749
	N of Valid Cases	2658	

Table A.840: Crosstab (Interface Computer Desktop * User Transmission)

		User Transmission			
		Not			
		Available	Manual	Automatic	Total
Interface Computer Desktop	Organized Count	1	1312	865	2178
	% within User Transmission	100.0%	81.6%	82.4%	81.9%
	Untidy Count	0	295	185	480
	% within User Transmission	0.0%	18.4%	17.6%	18.1%
	Total Count	1	1607	1050	2658
	% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.841: Chi-Square Tests (Interface Computer Desktop * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.454 ^a	2	0.797
Likelihood Ratio	0.633	2	0.729
Linear-by-Linear Association	0.209	1	0.648
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.842: Symmetric Measures (Interface Computer Desktop * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.013	0.797
	Cramer's V	0.013	0.797
	N of Valid Cases	2658	

Table A.843: Crosstab (Interface Backcolor * User Transmission)

		User Transmission				
			Not			
			Available	Manual	Automatic	Total
Interface Backcolor	Not Available	Count	1	0	0	1
		% within User Transmission	100.0%	0.0%	0.0%	0.0%
	Black	Count	0	725	474	1199
		% within User Transmission	0.0%	45.1%	45.1%	45.1%
	White	Count	0	882	576	1458
		% within User Transmission	0.0%	54.9%	54.9%	54.9%
	Total	Count	1	1607	1050	2658
		% within User Transmission	100.0%	100.0%	100.0%	100.0%

Table A.844: Chi-Square Tests (Interface Backcolor * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.658E3	4	0.000
Likelihood Ratio	17.770	4	0.001
Linear-by-Linear Association	0.025	1	0.875
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.845: Symmetric Measures (Interface Backcolor * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.000	0.000
	Cramer's V	0.707	0.000
	N of Valid Cases	2658	

Table A.846: Crosstab (Interface Menus * User Transmission)

		User Transmission			
		Not Available			Total
Interface Menus	Not Available	Count	Manual	Automatic	Total
		1	0	0	1
		% within User Transmission	100.0%	0.0%	0.0%
	Horizontal	Count	0	1087	721
		% within User Transmission	0.0%	67.6%	68.7%
	Vertical	Count	0	520	329
		% within User Transmission	0.0%	32.4%	31.3%
	Total	Count	1	1607	1050
		% within User Transmission	100.0%	100.0%	100.0%

Table A.847: Chi-Square Tests (Interface Menus * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.658E3	4	0.000
Likelihood Ratio	18.078	4	0.001
Linear-by-Linear Association	0.157	1	0.692
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.848: Symmetric Measures (Interface Menus * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.000	0.000
	Cramer's V	0.707	0.000
	N of Valid Cases	2658	

Table A.849: Crosstab (Interface Wizards * User Transmission)

		User Transmission				
		Not Available				
		Manual	Automatic	Total		
Interface Wizards	Always	Count	0	154	120	274
		% within User Transmission	0.0%	9.6%	11.4%	10.3%
	Occasionally	Count	1	1091	703	1795
		% within User Transmission	100.0%	67.9%	67.0%	67.5%
	Never	Count	0	362	227	589
		% within User Transmission	0.0%	22.5%	21.6%	22.2%
Total	Count	1	1607	1050	2658	
	% within User Transmission	100.0%	100.0%	100.0%	100.0%	

Table A.850: Chi-Square Tests (Interface Wizards * User Transmission)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.898 ^a	4	0.575
Likelihood Ratio	3.179	4	0.528
Linear-by-Linear Association	1.515	1	0.218
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.851: Symmetric Measures (Interface Wizards * User Transmission)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.033	0.575
	Cramer's V	0.023	0.575
	N of Valid Cases	2658	

B.17. User Form vs. Function Cross Tables

Table A.852: Crosstab (Interface Logo Position * User Form vs. Function)

		User Form vs. Function				
		Not				
		Available	Function	Form	Total	
Interface Logo Position	Not Available	Count	0	3	2	5
		% within User Form vs. Function	0.0%	0.2%	0.2%	0.2%
	Left	Count	0	1231	842	2073
		% within User Form vs. Function	0.0%	78.6%	77.2%	78.0%
	Center	Count	0	178	123	301
		% within User Form vs. Function	0.0%	11.4%	11.3%	11.3%
	Right	Count	1	155	123	279
		% within User Form vs. Function	100.0%	9.9%	11.3%	10.5%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.853: Chi-Square Tests (Interface Logo Position * User Form vs. Function)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	9.865 ^a	6	0.130
Likelihood Ratio	5.842	6	0.441
Linear-by-Linear Association	0.820	1	0.365
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.854: Symmetric Measures (Interface Logo Position * User Form vs. Function)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.061	0.130
	Cramer's V	0.043	0.130
	N of Valid Cases	2658	

Table A.855: Crosstab (Interface Warnings * User Form vs. Function)

			<i>User Form vs. Function</i>			
			<i>Not</i>			
			<i>Available</i>	<i>Function</i>	<i>Form</i>	<i>Total</i>
Interface Warnings	Not Available	Count	0	0	1	1
		% within User Form vs. Function	0.0%	0.0%	0.1%	0.0%
	Pop-up	Count	0	128	82	210
		% within User Form vs. Function	0.0%	8.2%	7.5%	7.9%
	On Form	Count	1	1439	1007	2447
		% within User Form vs. Function	100.0%	91.8%	92.4%	92.1%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.856: Chi-Square Tests (Interface Warnings * User Form vs. Function)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	1.885 ^a	4	0.757
Likelihood Ratio	2.310	4	0.679
Linear-by-Linear Association	0.171	1	0.679
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.857: Symmetric Measures (Interface Warnings * User Form vs. Function)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.027	0.757
	Cramer's V	0.019	0.757
	N of Valid Cases	2658	

Table A.858: Crosstab (Interface Forecolor * User Form vs. Function)

		User Form vs. Function				
		Not				
		Available	Function	Form	Total	
Interface	Not	Count	1	1	0	2
	Available	% within User Form vs. Function	100.0%	0.1%	0.0%	0.1%
Forecolor	Black	Count	0	265	187	452
		% within User Form vs. Function	0.0%	16.9%	17.2%	17.0%
	White	Count	0	1301	903	2204
		% within User Form vs. Function	0.0%	83.0%	82.8%	82.9%
Total		Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.859: Chi-Square Tests (Interface Forecolor * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.329E3	4	0.000
Likelihood Ratio	16.079	4	0.003
Linear-by-Linear Association	0.036	1	0.850
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.860: Symmetric Measures (Interface Forecolor * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.707	0.000
	Cramer's V	0.500	0.000
	N of Valid Cases	2658	

Table A.861: Crosstab (Interface Paragraphs * User Form vs. Function)

		User Form vs. Function				
		Not Available				
		Function	Form	Total		
Interface Paragraphs	Not Available	Count	0	0	1	1
		% within User Form vs. Function	0.0%	0.0%	0.1%	0.0%
	Aligned	Count	0	941	705	1646
		% within User Form vs. Function	0.0%	60.1%	64.7%	61.9%
	Justified	Count	1	626	384	1011
		% within User Form vs. Function	100.0%	39.9%	35.2%	38.0%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.862: Chi-Square Tests (Interface Paragraphs * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.056 ^a	4	0.060
Likelihood Ratio	9.727	4	0.045
Linear-by-Linear Association	6.634	1	0.010
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.863: Symmetric Measures (Interface Paragraphs * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.058	0.060
	Cramer's V	0.041	0.060
	N of Valid Cases	2658	

Table A.864: Crosstab (Interface Progress Bars * User Form vs. Function)

		User Form vs. Function				
		Not Available				
Interface	Not Available	Count	Form	Function	Total	
Progress Bars	Only Text	Count	0	1	1	2
		% within User Form vs. Function	0.0%	0.1%	0.1%	0.1%
	Progress Bar	Count	0	98	81	179
		% within User Form vs. Function	0.0%	6.3%	7.4%	6.7%
		Count	1	1468	1008	2477
		% within User Form vs. Function	100.0%	93.7%	92.5%	93.2%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.865: Chi-Square Tests (Interface Progress Bars * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.563 ^a	4	0.815
Likelihood Ratio	1.617	4	0.806
Linear-by-Linear Association	1.521	1	0.217
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.866: Symmetric Measures (Interface Progress Bars * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.024	0.815
	Cramer's V	0.017	0.815
	N of Valid Cases	2658	

Table A.867: Crosstab (Interface Label Position * User Form vs. Function)

		User Form vs. Function				
		Not Available				
Interface Label Position	Not Available	Count	Function	Form	Total	
Interface Label Position	Not Available	Count	1	1	0	2
		% within User Form vs. Function	100.0%	0.1%	0.0%	0.1%
	On The Top	Count	0	424	284	708
		% within User Form vs. Function	0.0%	27.1%	26.1%	26.6%
	On The Left	Count	0	1142	806	1948
		% within User Form vs. Function	0.0%	72.9%	73.9%	73.3%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.868: Chi-Square Tests (Interface Label Position * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.329E3	4	0.000
Likelihood Ratio	16.397	4	0.003
Linear-by-Linear Association	0.740	1	0.390
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.869: Symmetric Measures (Interface Label Position * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.707	0.000
	Cramer's V	0.500	0.000
	N of Valid Cases	2658	

Table A.870: Crosstab (Interface Windows * User Form vs. Function)

		User Form vs. Function				
		Not				
		Available	Function	Form	Total	
Interface	Not	Count	0	1	1	2
	Available	% within User Form vs. Function	0.0%	0.1%	0.1%	0.1%
Windows	Windows	Count	0	455	306	761
		% within User Form vs. Function	0.0%	29.0%	28.1%	28.6%
One	Screen	Count	1	1111	783	1895
		% within User Form vs. Function	100.0%	70.9%	71.8%	71.3%
Total	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.871: Chi-Square Tests (Interface Windows * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.756 ^a	4	0.944
Likelihood Ratio	1.030	4	0.905
Linear-by-Linear Association	0.221	1	0.638
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.872: Symmetric Measures (Interface Windows * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.017	0.944
	Cramer's V	0.012	0.944
N of Valid Cases		2658	

Table A.873: Crosstab (Interface Form Icons * User Form vs. Function)

		User Form vs. Function			
		Not			
		Available	Function	Form	Total
Interface Form Icons	Right Count	1	1095	674	1770
	% within User Form vs. Function	100.0%	69.9%	61.8%	66.6%
	Left Count	0	472	416	888
	% within User Form vs. Function	0.0%	30.1%	38.2%	33.4%
	Total Count	1	1567	1090	2658
	% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.874: Chi-Square Tests (Interface Form Icons * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	19.198 ^a	2	0.000
Likelihood Ratio	19.408	2	0.000
Linear-by-Linear Association	18.973	1	0.000
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .33.

Table A.875: Symmetric Measures (Interface Form Icons * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.085	0.000
	Cramer's V	0.085	0.000
	N of Valid Cases	2658	

Table A.876: Crosstab (Interface Start Menu * User Form vs. Function)

		User Form vs. Function				
		Not Available				
			Function	Form	Total	
Interface Start Menu	Not Available	Count	1	0	0	1
		% within User Form vs. Function	100.0%	0.0%	0.0%	0.0%
	Bottom	Count	0	1269	830	2099
		% within User Form vs. Function	0.0%	81.0%	76.1%	79.0%
	Left	Count	0	56	43	99
		% within User Form vs. Function	0.0%	3.6%	3.9%	3.7%
	Top	Count	0	213	190	403
		% within User Form vs. Function	0.0%	13.6%	17.4%	15.2%
	Right	Count	0	29	27	56
		% within User Form vs. Function	0.0%	1.9%	2.5%	2.1%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.877: Chi-Square Tests (Interface Start Menu * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.668E3	8	0.000
Likelihood Ratio	27.264	8	0.001
Linear-by-Linear Association	10.000	1	0.002
N of Valid Cases	2658		

a. 7 cells (46.7%) have expected count less than 5. The minimum expected count is .00.

Table A.878: Symmetric Measures (Interface Start Menu * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.002	0.000
	Cramer's V	0.708	0.000
	N of Valid Cases	2658	

Table A.879: Crosstab (Interface Human or Robot Operator * User Form vs. Function)

		<i>User Form vs. Function</i>			
		<i>Not</i>			
		<i>Available</i>	<i>Function</i>	<i>Form</i>	<i>Total</i>
Interface Human or Robot Operator	Human Count	1	1299	935	2235
	% within User Form vs. Function	100.0%	82.9%	85.8%	84.1%
	Robot Count	0	268	155	423
	% within User Form vs. Function	0.0%	17.1%	14.2%	15.9%
	Total Count	1	1567	1090	2658
	% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.880: Chi-Square Tests (Interface Human or Robot Operator * User Form vs. Function)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	4.181 ^a	2	0.124
Likelihood Ratio	4.377	2	0.112
Linear-by-Linear Association	3.882	1	0.049
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .16.

Table A.881: Symmetric Measures (Interface Human or Robot Operator * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.040	0.124
	Cramer's V	0.040	0.124
	N of Valid Cases	2658	

Table A.882: Crosstab (Interface Icon Position * User Form vs. Function)

		<i>User Form vs. Function</i>				
		<i>Not</i>				
<i>Interface Icon Position</i>	<i>Not Available</i>	<i>Count</i>	<i>Available</i>	<i>Function</i>	<i>Form</i>	<i>Total</i>
		Count	0	1	0	1
		% within User Form vs. Function	0.0%	0.1%	0.0%	0.0%
	Top	Count	0	351	232	583
		% within User Form vs. Function	0.0%	22.4%	21.3%	21.9%
	Left	Count	0	1106	765	1871
		% within User Form vs. Function	0.0%	70.6%	70.2%	70.4%
	Right	Count	1	90	73	164
		% within User Form vs. Function	100.0%	5.7%	6.7%	6.2%
	Bottom	Count	0	19	20	39
		% within User Form vs. Function	0.0%	1.2%	1.8%	1.5%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.883: Chi-Square Tests (Interface Icon Position * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	18.932 ^a	8	0.015
Likelihood Ratio	9.624	8	0.292
Linear-by-Linear Association	2.013	1	0.156
N of Valid Cases	2658		

a. 7 cells (46.7%) have expected count less than 5. The minimum expected count is .00.

Table A.884: Symmetric Measures (Interface Icon Position * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	.084	0.015
	Cramer's V	0.060	0.015
	N of Valid Cases	2658	

Table A.885: Crosstab (Interface Widgets * User Form vs. Function)

			User Form vs. Function			
			Not			
			Available	Function	Form	Total
Interface Widgets	I	Count	0	697	518	1215
	Love	% within User Form vs. Function	0.0%	44.5%	47.5%	45.7%
	I	Count	1	870	572	1443
	Hate	% within User Form vs. Function	100.0%	55.5%	52.5%	54.3%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.886: Chi-Square Tests (Interface Widgets * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.241 ^a	2	0.198
Likelihood Ratio	3.620	2	0.164
Linear-by-Linear Association	2.551	1	0.110
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .46.

Table A.887: Symmetric Measures (Interface Widgets * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.035	0.198
	Cramer's V	0.035	0.198
	N of Valid Cases	2658	

Table A.888: Crosstab (Interface Menu Icons * User Form vs. Function)

			User Form vs. Function					
			Not Available			Function Form	Total	
Interface Menu Icons	Not Available		Count	% within User Form vs. Function	Count	% within User Form vs. Function		
Important	Not Available	Count	0	0.0%	1	0.1%	1	
		% within User Form vs. Function	0.0%	0.0%	0.1%	0.0%	0.0%	
	Important	Count	1	100.0%	1388	88.6%	950	2339
		% within User Form vs. Function	100.0%	100.0%	88.6%	87.2%	88.0%	
	Not Available	Count	0	0.0%	178	11.4%	140	318
		% within User Form vs. Function	0.0%	0.0%	11.4%	12.8%	12.0%	
Total	Count	1	100.0%	1567	100.0%	1090	2658	
	% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%	100.0%		

Table A.889: Chi-Square Tests (Interface Menu Icons * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.164 ^a	4	0.706
Likelihood Ratio	2.636	4	0.621
Linear-by-Linear Association	1.502	1	0.220
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.890: Symmetric Measures (Interface Menu Icons * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.029	0.706
	Cramer's V	0.020	0.706
	N of Valid Cases	2658	

Table A.891: Crosstab (Interface Computer Desktop * User Form vs. Function)

		User Form vs. Function				
		Not Available			Function Form	Total
Interface Computer Desktop	Organized	Count	1	1266	911	2178
		% within User Form vs. Function	100.0%	80.8%	83.6%	81.9%
	Untidy	Count	0	301	179	480
		% within User Form vs. Function	0.0%	19.2%	16.4%	18.1%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.892: Chi-Square Tests (Interface Computer Desktop * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	3.594 ^a	2	0.166
Likelihood Ratio	3.798	2	0.150
Linear-by-Linear Association	3.267	1	0.071
N of Valid Cases	2658		

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is .18.

Table A.893: Symmetric Measures (Interface Computer Desktop * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.037	0.166
	Cramer's V	0.037	0.166
	N of Valid Cases	2658	

Table A.894: Crosstab (Interface Backcolor * User Form vs. Function)

		User Form vs. Function				
		Not				
		Available	Function	Form	Total	
Interface Backcolor	Not Available	Count	1	0	0	1
		% within User Form vs. Function	100.0%	0.0%	0.0%	0.0%
	Black	Count	0	696	503	1199
		% within User Form vs. Function	0.0%	44.4%	46.1%	45.1%
	White	Count	0	871	587	1458
		% within User Form vs. Function	0.0%	55.6%	53.9%	54.9%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.895: Chi-Square Tests (Interface Backcolor * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.659E3	4	0.000
Likelihood Ratio	18.548	4	0.001
Linear-by-Linear Association	0.499	1	0.480
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.896: Symmetric Measures (Interface Backcolor * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.000	0.000
	Cramer's V	0.707	0.000
N of Valid Cases		2658	

Table A.897: Crosstab (Interface Menus * User Form vs. Function)

		User Form vs. Function				
		Not Available				Total
Interface Menus	Not Available	Count	Available	Function	Form	Total
		Count	1	0	0	1
		% within User Form vs. Function	100.0%	0.0%	0.0%	0.0%
	Horizontal	Count	0	1030	778	1808
		% within User Form vs. Function	0.0%	65.7%	71.4%	68.0%
	Vertical	Count	0	537	312	849
		% within User Form vs. Function	0.0%	34.3%	28.6%	31.9%
	Total	Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.898: Chi-Square Tests (Interface Menus * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.667E3	4	0.000
Likelihood Ratio	27.256	4	0.000
Linear-by-Linear Association	8.430	1	0.004
N of Valid Cases	2658		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .00.

Table A.899: Symmetric Measures (Interface Menus * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	1.002	0.000
	Cramer's V	0.708	0.000
	N of Valid Cases	2658	

Table A.900: Crosstab (Interface Wizards * User Form vs. Function)

		User Form vs. Function				
		Not				
		Available	Function	Form	Total	
Interface Wizards	Always	Count	0	169	105	274
		% within User Form vs. Function	0.0%	10.8%	9.6%	10.3%
		Occasionally Count	1	1058	736	1795
		% within User Form vs. Function	100.0%	67.5%	67.5%	67.5%
	Never	Count	0	340	249	589
		% within User Form vs. Function	0.0%	21.7%	22.8%	22.2%
		Total Count	1	1567	1090	2658
		% within User Form vs. Function	100.0%	100.0%	100.0%	100.0%

Table A.901: Chi-Square Tests (Interface Wizards * User Form vs. Function)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1.690 ^a	4	0.793
Likelihood Ratio	1.999	4	0.736
Linear-by-Linear Association	1.114	1	0.291
N of Valid Cases	2658		

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .10.

Table A.902: Symmetric Measures (Interface Wizards * User Form vs. Function)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.025	0.793
	Cramer's V	0.018	0.793
	N of Valid Cases	2658	

B.18. User New Features Cross Tables

Table A.903: Crosstab (Interface Logo Position * User New Features)

		<i>User New Features</i>					
			<i>Not</i>				
			<i>Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>
Interface Logo Position	Not Available	Count	0	0	2	3	5
		% within User New Features	0.0%	0.0%	0.2%	0.2%	0.2%
	Left	Count	1	168	642	1262	2073
		% within User New Features	33.3%	74.7%	76.4%	79.4%	78.0%
	Center	Count	1	31	105	164	301
		% within User New Features	33.3%	13.8%	12.5%	10.3%	11.3%
	Right	Count	1	26	91	161	279
		% within User New Features	33.3%	11.6%	10.8%	10.1%	10.5%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.904: Chi-Square Tests (Interface Logo Position * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	9.244 ^a	9	0.415
Likelihood Ratio	8.813	9	0.455
Linear-by-Linear Association	3.718	1	0.054
N of Valid Cases	2658		

a. 7 cells (43.8%) have expected count less than 5. The minimum expected count is .01.

Table A.905: Symmetric Measures (Interface Logo Position * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.059	0.415
	Cramer's V	0.034	0.415
	N of Valid Cases	2658	

Table A.906: Crosstab (Interface Warnings * User New Features)

		<i>User New Features</i>					
		<i>Not</i>					
		<i>Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>	
Interface Warnings	Not Available	Count	0	0	1	0	1
		% within User New Features	0.0%	0.0%	0.1%	0.0%	0.0%
	Pop-up	Count	0	23	77	110	210
		% within User New Features	0.0%	10.2%	9.2%	6.9%	7.9%
	On Form	Count	3	202	762	1480	2447
		% within User New Features	100.0%	89.8%	90.7%	93.1%	92.1%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.907: Chi-Square Tests (Interface Warnings * User New Features)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	8.076 ^a	6	0.233
Likelihood Ratio	8.323	6	0.215
Linear-by-Linear Association	5.449	1	0.020
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.908: Symmetric Measures (Interface Warnings * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.055	0.233
	Cramer's V	0.039	0.233
	N of Valid Cases	2658	

Table A.909: Crosstab (Interface Forecolor * User New Features)

		User New Features					
			Not Available	Shy	Confident	Interested	Total
Interface Forecolor	Not Available	Count	1	1	0	0	2
		% within User New Features	33.3%	0.4%	0.0%	0.0%	0.1%
	Black	Count	0	48	147	257	452
		% within User New Features	0.0%	21.3%	17.5%	16.2%	17.0%
	White	Count	2	176	693	1333	2204
		% within User New Features	66.7%	78.2%	82.5%	83.8%	82.9%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.910: Chi-Square Tests (Interface Forecolor * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.516E2	6	0.000
Likelihood Ratio	20.736	6	0.002
Linear-by-Linear Association	5.587	1	0.018
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.911: Symmetric Measures (Interface Forecolor * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.412	0.000
	Cramer's V	0.291	0.000
	N of Valid Cases	2658	

Table A.912: Crosstab (Interface Paragraphs * User New Features)

		<i>User New Features</i>					
		<i>Not</i>					
		<i>Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>	
<i>Interface Paragraphs</i>	<i>Not Available</i>	Count	0	0	0	1	1
		% within User New Features	0.0%	0.0%	0.0%	0.1%	0.0%
	<i>Aligned</i>	Count	2	141	497	1006	1646
		% within User New Features	66.7%	62.7%	59.2%	63.3%	61.9%
	<i>Justified</i>	Count	1	84	343	583	1011
		% within User New Features	33.3%	37.3%	40.8%	36.7%	38.0%
	<i>Total</i>	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.913: Chi-Square Tests (Interface Paragraphs * User New Features)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	4.758 ^a	6	0.575
Likelihood Ratio	5.096	6	0.532
Linear-by-Linear Association	1.555	1	0.212
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.914: Symmetric Measures (Interface Paragraphs * User New Features)

		<i>Value</i>	<i>Approx. Sig.</i>
Nominal by Nominal	Phi	0.042	0.575
	Cramer's V	0.030	0.575
	N of Valid Cases	2658	

Table A.915: Crosstab (Interface Progress Bars * User New Features)

		<i>User New Features</i>					
			<i>Not Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>
Interface Progress Bars	Not Available	Count	0	0	0	2	2
		% within User New Features	0.0%	0.0%	0.0%	0.1%	0.1%
	Only Text	Count	0	21	53	105	179
		% within User New Features	0.0%	9.3%	6.3%	6.6%	6.7%
	Progress Bar	Count	3	204	787	1483	2477
		% within User New Features	100.0%	90.7%	93.7%	93.3%	93.2%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.916: Chi-Square Tests (Interface Progress Bars * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.260 ^a	6	0.642
Likelihood Ratio	4.935	6	0.552
Linear-by-Linear Association	0.417	1	0.519
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.917: Symmetric Measures (Interface Progress Bars * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.040	0.642
	Cramer's V	0.028	0.642
	N of Valid Cases	2658	

Table A.918: Crosstab (Interface Label Position * User New Features)

		<i>User New Features</i>					
			<i>Not Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>
<i>Interface Label Position</i>	<i>Not Available</i>	Count	1	0	0	1	2
		% within User New Features	33.3%	0.0%	0.0%	0.1%	0.1%
	<i>On The Top</i>	Count	1	70	221	416	708
		% within User New Features	33.3%	31.1%	26.3%	26.2%	26.6%
	<i>On The Left</i>	Count	1	155	619	1173	1948
		% within User New Features	33.3%	68.9%	73.7%	73.8%	73.3%
	<i>Total</i>	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.919: Chi-Square Tests (Interface Label Position * User New Features)

	<i>Value</i>	<i>df</i>	<i>Asymp. Sig. (2-sided)</i>
Pearson Chi-Square	4.451E2	6	0.000
Likelihood Ratio	15.145	6	0.019
Linear-by-Linear Association	2.170	1	0.141
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.920: Symmetric Measures (Interface Label Position * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.409	0.000
	Cramer's V	0.289	0.000
	N of Valid Cases	2658	

Table A.921: Crosstab (Interface Windows * User New Features)

			User New Features				
			Not				Total
			Available	Shy	Confident	Interested	
Interface	Not Available	Count	0	0	0	2	2
		% within User New Features	0.0%	0.0%	0.0%	0.1%	0.1%
Windows	Windows	Count	0	65	234	462	761
		% within User New Features	0.0%	28.9%	27.9%	29.1%	28.6%
One Screen	One Screen	Count	3	160	606	1126	1895
		% within User New Features	100.0%	71.1%	72.1%	70.8%	71.3%
Total	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.922: Chi-Square Tests (Interface Windows * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.967 ^a	6	0.813
Likelihood Ratio	4.500	6	0.609
Linear-by-Linear Association	0.416	1	0.519
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.923: Symmetric Measures (Interface Windows * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.033	0.813
	Cramer's V	0.024	0.813
	N of Valid Cases	2658	

Table A.924: Crosstab (Interface Form Icons * User New Features)

		User New Features				
		Not Available	Shy	Confident	Interested	Total
Interface Form Icons	Right Count	2	148	567	1053	1770
	% within User New Features	66.7%	65.8%	67.5%	66.2%	66.6%
	Left Count	1	77	273	537	888
	% within User New Features	33.3%	34.2%	32.5%	33.8%	33.4%
Total Count	3	225	840	1590	2658	
	% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.925: Chi-Square Tests (Interface Form Icons * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	0.474 ^a	3	0.925
Likelihood Ratio	0.475	3	0.924
Linear-by-Linear Association	0.063	1	0.802
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 1.00.

Table A.926: Symmetric Measures (Interface Form Icons * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.013	0.925
	Cramer's V	0.013	0.925
	N of Valid Cases	2658	

Table A.927: Crosstab (Interface Start Menu * User New Features)

		<i>User New Features</i>					
			<i>Not</i>				
			<i>Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>
Interface Start Menu	Not Available	Count	1	0	0	0	1
		% within User New Features	33.3%	0.0%	0.0%	0.0%	0.0%
	Bottom	Count	1	173	682	1243	2099
		% within User New Features	33.3%	76.9%	81.2%	78.2%	79.0%
	Left	Count	0	13	31	55	99
		% within User New Features	0.0%	5.8%	3.7%	3.5%	3.7%
	Top	Count	1	33	106	263	403
		% within User New Features	33.3%	14.7%	12.6%	16.5%	15.2%
	Right	Count	0	6	21	29	56
		% within User New Features	0.0%	2.7%	2.5%	1.8%	2.1%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.928: Chi-Square Tests (Interface Start Menu * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.974E2	12	0.000
Likelihood Ratio	25.978	12	0.011
Linear-by-Linear Association	0.575	1	0.448
N of Valid Cases	2658		

a. 9 cells (45.0%) have expected count less than 5. The minimum expected count is .00.

Table A.929: Symmetric Measures (Interface Start Menu * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.581	0.000
	Cramer's V	0.335	0.000
	N of Valid Cases	2658	

Table A.930: Crosstab (Interface Human or Robot Operator * User New Features)

		User New Features				
		Not				Total
		Available	Shy	Confident	Interested	
Interface Human or Robot Operator	Human Count	2	177	710	1346	2235
	% within					
	User New Features	66.7%	78.7%	84.5%	84.7%	84.1%
	Robot Count	1	48	130	244	423
	% within					
	User New Features	33.3%	21.3%	15.5%	15.3%	15.9%
	Total Count	3	225	840	1590	2658
	% within					
	User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.931: Chi-Square Tests (Interface Human or Robot Operator * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.122 ^a	3	0.106
Likelihood Ratio	5.610	3	0.132
Linear-by-Linear Association	3.274	1	0.070
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .48.

Table A.932: Symmetric Measures (Interface Human or Robot Operator * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.048	0.106
	Cramer's V	0.048	0.106
	N of Valid Cases	2658	

Table A.933: Crosstab (Interface Icon Position * User New Features)

			<i>User New Features</i>				
			<i>Not</i>				
			<i>Available</i>	<i>Shy</i>	<i>Confident</i>	<i>Interested</i>	<i>Total</i>
Interface Icon Position	Not Available	Count	0	0	0	1	1
		% within User New Features	0.0%	0.0%	0.0%	0.1%	0.0%
	Top	Count	0	61	194	328	583
		% within User New Features	0.0%	27.1%	23.1%	20.6%	21.9%
	Left	Count	2	150	579	1140	1871
		% within User New Features	66.7%	66.7%	68.9%	71.7%	70.4%
	Right	Count	1	8	55	100	164
		% within User New Features	33.3%	3.6%	6.5%	6.3%	6.2%
	Bottom	Count	0	6	12	21	39
		% within User New Features	0.0%	2.7%	1.4%	1.3%	1.5%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.934: Chi-Square Tests (Interface Icon Position * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.723 ^a	12	0.204
Likelihood Ratio	14.791	12	0.253
Linear-by-Linear Association	1.892	1	0.169
N of Valid Cases	2658		

a. 9 cells (45.0%) have expected count less than 5. The minimum expected count is .00.

Table A.935: Symmetric Measures (Interface Icon Position * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.077	0.204
	Cramer's V	0.044	0.204
	N of Valid Cases	2658	

Table A.936: Crosstab (Interface Widgets * User New Features)

			User New Features				
			Not				
			Available	Shy	Confident	Interested	Total
Interface	I	Count	0	95	397	723	1215
Widgets	Love	% within User New Features	0.0%	42.2%	47.3%	45.5%	45.7%
	I	Count	3	130	443	867	1443
	Hate	% within User New Features	100.0%	57.8%	52.7%	54.5%	54.3%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.937: Chi-Square Tests (Interface Widgets * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	4.480 ^a	3	0.214
Likelihood Ratio	5.624	3	0.131
Linear-by-Linear Association	0.164	1	0.686
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 1.37.

Table A.938: Symmetric Measures (Interface Widgets * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.041	0.214
	Cramer's V	0.041	0.214
	N of Valid Cases	2658	

Table A.939: Crosstab (Interface Menu Icons * User New Features)

			User New Features				
			Not Available	Shy	Confident	Interested	Total
Interface Menu Icons	Not Available	Count	0	0	1	0	1
		% within User New Features	0.0%	0.0%	0.1%	0.0%	0.0%
	Important	Count	3	191	729	1416	2339
		% within User New Features	100.0%	84.9%	86.8%	89.1%	88.0%
	Not Important	Count	0	34	110	174	318
		% within User New Features	0.0%	15.1%	13.1%	10.9%	12.0%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.940: Chi-Square Tests (Interface Menu Icons * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	7.308 ^a	6	0.293
Likelihood Ratio	7.676	6	0.263
Linear-by-Linear Association	4.068	1	0.044
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.941: Symmetric Measures (Interface Menu Icons * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.052	0.293
	Cramer's V	0.037	0.293
	N of Valid Cases	2658	

Table A.942: Crosstab (Interface Computer Desktop * User New Features)

		User New Features					
		Not Available	Shy	Confident	Interested	Total	
Interface Computer Desktop	Organized	Count	3	177	694	1304	2178
		% within User New Features	100.0%	78.7%	82.6%	82.0%	81.9%
Untidy		Count	0	48	146	286	480
		% within User New Features	0.0%	21.3%	17.4%	18.0%	18.1%
Total		Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.943: Chi-Square Tests (Interface Computer Desktop * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.558 ^a	3	0.465
Likelihood Ratio	3.024	3	0.388
Linear-by-Linear Association	0.328	1	0.567
N of Valid Cases	2658		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is .54.

Table A.944: Symmetric Measures (Interface Computer Desktop * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.031	0.465
	Cramer's V	0.031	0.465
	N of Valid Cases	2658	

Table A.945: Crosstab (Interface Backcolor * User New Features)

		User New Features					
		Not					
		Available	Shy	Confident	Interested	Total	
Interface	Not	Count	1	0	0	0	1
Backcolor	Available	% within					
		User New Features	33.3%	0.0%	0.0%	0.0%	0.0%
	Black	Count	1	101	351	746	1199
		% within					
		User New Features	33.3%	44.9%	41.8%	46.9%	45.1%
	White	Count	1	124	489	844	1458
		% within					
		User New Features	33.3%	55.1%	58.2%	53.1%	54.9%
	Total	Count	3	225	840	1590	2658
		% within					
		User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.946: Chi-Square Tests (Interface Backcolor * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.912E2	6	0.000
Likelihood Ratio	19.838	6	0.003
Linear-by-Linear Association	2.211	1	0.137
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.947: Symmetric Measures (Interface Backcolor * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.579	0.000
	Cramer's V	0.409	0.000
	N of Valid Cases	2658	

Table A.948: Crosstab (Interface Menus * User New Features)

		User New Features					
		Not					
		Available	Shy	Confident	Interested	Total	
Interface Menus	Not Available	Count	1	0	0	0	1
		% within User New Features	33.3%	0.0%	0.0%	0.0%	0.0%
	Horizontal	Count	2	153	545	1108	1808
		% within User New Features	66.7%	68.0%	64.9%	69.7%	68.0%
	Vertical	Count	0	72	295	482	849
		% within User New Features	0.0%	32.0%	35.1%	30.3%	31.9%
	Total	Count	3	225	840	1590	2658
		% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.949: Chi-Square Tests (Interface Menus * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8.918E2	6	0.000
Likelihood Ratio	21.282	6	0.002
Linear-by-Linear Association	1.885	1	0.170
N of Valid Cases	2658		

a. 6 cells (50.0%) have expected count less than 5. The minimum expected count is .00.

Table A.950: Symmetric Measures (Interface Menus * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.579	0.000
	Cramer's V	0.410	0.000
	N of Valid Cases	2658	

Table A.951: Crosstab (Interface Wizards * User New Features)

		User New Features				
		Not				
		Available	Shy	Confident	Interested	Total
Interface Always Wizards	Count	1	30	93	150	274
	% within User New Features	33.3%	13.3%	11.1%	9.4%	10.3%
Occasionally	Count	2	149	563	1081	1795
	% within User New Features	66.7%	66.2%	67.0%	68.0%	67.5%
Never	Count	0	46	184	359	589
	% within User New Features	0.0%	20.4%	21.9%	22.6%	22.2%
Total	Count	3	225	840	1590	2658
	% within User New Features	100.0%	100.0%	100.0%	100.0%	100.0%

Table A.952: Chi-Square Tests (Interface Wizards * User New Features)

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.446 ^a	6	0.375
Likelihood Ratio	6.394	6	0.380
Linear-by-Linear Association	3.275	1	0.070
N of Valid Cases	2658		

a. 3 cells (25.0%) have expected count less than 5. The minimum expected count is .31.

Table A.953: Symmetric Measures (Interface Wizards * User New Features)

		Value	Approx. Sig.
Nominal by Nominal	Phi	0.049	0.375
	Cramer's V	0.035	0.375
	N of Valid Cases	2658	

C. SUMMARIZED RELATIONSHIPS

Table A.954: Interface Logo Position

	<i>Pearson Chi-Square asymp. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.000	0.099
User Gender	0.003	0.073
User Age Class	0.001	0.063
User Left Brained or Right Brained	0.252	0.039
User Designer	0.000	0.121
User Programmer	0.000	0.126
User Data Operator	0.876	0.016
User Knowledge Worker	0.477	0.031
User Entertainer	0.021	0.061
User Wrist Watch	0.504	0.032
User Remember Faces	0.007	0.058
User Remember Names	0.002	0.057
User Remember Numbers	0.152	0.041
User Mobile Phone	0.007	0.058
User Real Desktop	0.593	0.029
User Transmission	0.035	0.051
User Form vs. Function	0.130	0.043
User New Features	0.415	0.034

Table A.955: Interface Warnings

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.000	0.233
User Gender	0.000	0.140
User Age Class	0.689	0.033
User Left Brained or Right Brained	0.537	0.022
User Designer	0.000	0.138
User Programmer	0.000	0.120
User Data Operator	0.000	0.076
User Knowledge Worker	0.000	0.140
User Entertainer	0.010	0.059
User Wrist Watch	0.000	0.070
User Remember Faces	0.526	0.025
User Remember Names	0.499	0.032
User Remember Numbers	0.455	0.033
User Mobile Phone	0.049	0.042
User Real Desktop	0.230	0.032
User Transmission	0.791	0.018
User Form vs. Function	0.757	0.019
User New Features	0.233	0.039

Table A.956: Interface Forecolor

	<i>Pearson Chi-Square asyp. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.000	0.076
User Gender	0.000	0.076
User Age Class	0.300	0.042
User Left Brained or Right Brained	0.690	0.017
User Designer	0.017	0.055
User Programmer	0.136	0.039
User Data Operator	0.098	0.042
User Knowledge Worker	0.000	0.110
User Entertainer	0.001	0.075
User Wrist Watch	0.492	0.032
User Remember Faces	0.593	0.023
User Remember Names	0.000	0.501
User Remember Numbers	0.000	0.500
User Mobile Phone	0.431	0.027
User Real Desktop	0.345	0.029
User Transmission	0.000	0.500
User Form vs. Function	0.000	0.500
User New Features	0.000	0.291

Table A.957: Interface Paragraphs

	Pearson Chi-Square asyp. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.000	0.163
User Gender	0.013	0.057
User Age Class	0.000	0.081
User Left Brained or Right Brained	0.563	0.021
User Designer	0.000	0.143
User Programmer	0.427	0.025
User Data Operator	0.002	0.068
User Knowledge Worker	0.000	0.083
User Entertainer	0.099	0.042
User Wrist Watch	0.066	0.047
User Remember Faces	0.453	0.026
User Remember Names	0.001	0.066
User Remember Numbers	0.000	0.067
User Mobile Phone	0.829	0.017
User Real Desktop	0.518	0.025
User Transmission	0.620	0.022
User Form vs. Function	0.060	0.041
User New Features	0.575	0.030

Table A.958: Interface Progress Bars

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.000	0.097
User Gender	0.765	0.014
User Age Class	0.820	0.029
User Left Brained or Right Brained	0.214	0.034
User Designer	0.053	0.047
User Programmer	0.206	0.034
User Data Operator	0.811	0.013
User Knowledge Worker	0.236	0.033
User Entertainer	0.224	0.034
User Wrist Watch	0.009	0.057
User Remember Faces	0.695	0.020
User Remember Names	0.236	0.039
User Remember Numbers	0.978	0.015
User Mobile Phone	0.096	0.039
User Real Desktop	0.870	0.015
User Transmission	0.377	0.028
User Form vs. Function	0.815	0.017
User New Features	0.642	0.028

Table A.959: Interface Label Position

	Pearson Chi-Square asyp. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.715	0.026
User Gender	0.675	0.017
User Age Class	0.768	0.030
User Left Brained or Right Brained	0.717	0.016
User Designer	0.850	0.011
User Programmer	0.022	0.054
User Data Operator	0.745	0.015
User Knowledge Worker	0.522	0.022
User Entertainer	0.214	0.034
User Wrist Watch	0.305	0.037
User Remember Faces	0.434	0.027
User Remember Names	0.000	0.502
User Remember Numbers	0.000	0.501
User Mobile Phone	0.735	0.019
User Real Desktop	0.100	0.038
User Transmission	0.000	0.500
User Form vs. Function	0.000	0.500
User New Features	0.000	0.289

Table A.960: Interface Windows

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.809	0.024
User Gender	0.394	0.026
User Age Class	0.825	0.029
User Left Brained or Right Brained	0.632	0.019
User Designer	0.861	0.011
User Programmer	0.391	0.027
User Data Operator	0.796	0.013
User Knowledge Worker	0.432	0.025
User Entertainer	0.374	0.027
User Wrist Watch	0.390	0.034
User Remember Faces	0.047	0.043
User Remember Names	0.417	0.034
User Remember Numbers	0.249	0.038
User Mobile Phone	0.963	0.011
User Real Desktop	0.353	0.029
User Transmission	0.699	0.020
User Form vs. Function	0.944	0.012
User New Features	0.813	0.024

Table A.961: Interface Form Icons

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.000	0.173
User Gender	0.005	0.054
User Age Class	0.000	0.102
User Left Brained or Right Brained	0.015	0.047
User Designer	0.000	0.164
User Programmer	0.000	0.112
User Data Operator	0.015	0.047
User Knowledge Worker	0.000	0.083
User Entertainer	0.013	0.048
User Wrist Watch	0.780	0.020
User Remember Faces	0.906	0.009
User Remember Names	0.608	0.026
User Remember Numbers	0.092	0.049
User Mobile Phone	0.161	0.037
User Real Desktop	0.017	0.055
User Transmission	0.348	0.028
User Form vs. Function	0.000	0.085
User New Features	0.925	0.013

Table A.962: Interface Start Menu

	<i>Pearson Chi-Square asyp. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.000	0.085
User Gender	0.000	0.133
User Age Class	0.011	0.055
User Left Brained or Right Brained	0.087	0.055
User Designer	0.001	0.082
User Programmer	0.066	0.058
User Data Operator	0.962	0.015
User Knowledge Worker	0.002	0.079
User Entertainer	0.388	0.039
User Wrist Watch	0.591	0.036
User Remember Faces	0.312	0.042
User Remember Names	0.000	0.578
User Remember Numbers	0.000	0.578
User Mobile Phone	0.179	0.046
User Real Desktop	0.971	0.021
User Transmission	0.000	0.708
User Form vs. Function	0.000	0.708
User New Features	0.000	0.335

Table A.963: Interface Human or Robot Operator

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.000	0.105
User Gender	0.174	0.026
User Age Class	0.001	0.086
User Left Brained or Right Brained	0.036	0.041
User Designer	0.722	0.007
User Programmer	0.037	0.040
User Data Operator	0.668	0.008
User Knowledge Worker	0.049	0.038
User Entertainer	0.094	0.033
User Wrist Watch	0.000	0.087
User Remember Faces	0.000	0.090
User Remember Names	0.123	0.047
User Remember Numbers	0.065	0.052
User Mobile Phone	0.135	0.039
User Real Desktop	0.756	0.015
User Transmission	0.002	0.068
User Form vs. Function	0.124	0.040
User New Features	0.106	0.048

Table A.964: Interface Icon Position

	<i>Pearson Chi-Square asyp. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.000	0.126
User Gender	0.000	0.095
User Age Class	0.076	0.048
User Left Brained or Right Brained	0.215	0.047
User Designer	0.000	0.132
User Programmer	0.000	0.115
User Data Operator	0.364	0.040
User Knowledge Worker	0.000	0.119
User Entertainer	0.002	0.081
User Wrist Watch	0.560	0.037
User Remember Faces	0.358	0.041
User Remember Names	0.000	0.068
User Remember Numbers	0.009	0.058
User Mobile Phone	0.439	0.039
User Real Desktop	0.979	0.020
User Transmission	0.018	0.059
User Form vs. Function	0.015	0.060
User New Features	0.204	0.044

Table A.965: Interface Widgets

	<i>Pearson Chi-Square asyp. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.000	0.101
User Gender	0.000	0.076
User Age Class	0.509	0.035
User Left Brained or Right Brained	0.272	0.021
User Designer	0.493	0.013
User Programmer	0.000	0.111
User Data Operator	0.758	0.006
User Knowledge Worker	0.802	0.005
User Entertainer	0.046	0.039
User Wrist Watch	0.000	0.095
User Remember Faces	0.001	0.075
User Remember Names	0.000	0.109
User Remember Numbers	0.559	0.028
User Mobile Phone	0.129	0.039
User Real Desktop	0.004	0.064
User Transmission	0.026	0.052
User Form vs. Function	0.198	0.035
User New Features	0.214	0.041

Table A.966: Interface Menu Icons

	<i>Pearson Chi-Square asympt. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.159	0.042
User Gender	0.883	0.010
User Age Class	0.000	0.087
User Left Brained or Right Brained	0.825	0.012
User Designer	0.247	0.032
User Programmer	0.098	0.042
User Data Operator	0.925	0.008
User Knowledge Worker	0.541	0.022
User Entertainer	0.000	0.087
User Wrist Watch	0.403	0.034
User Remember Faces	0.125	0.037
User Remember Names	0.075	0.046
User Remember Numbers	0.389	0.034
User Mobile Phone	0.087	0.039
User Real Desktop	0.875	0.015
User Transmission	0.749	0.019
User Form vs. Function	0.706	0.020
User New Features	0.293	0.037

Table A.967: Interface Computer Desktop

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.001	0.078
User Gender	0.905	0.002
User Age Class	0.001	0.085
User Left Brained or Right Brained	0.807	0.005
User Designer	0.001	0.066
User Programmer	0.002	0.061
User Data Operator	0.005	0.054
User Knowledge Worker	0.580	0.011
User Entertainer	0.971	0.001
User Wrist Watch	0.556	0.028
User Remember Faces	0.028	0.052
User Remember Names	0.172	0.043
User Remember Numbers	0.736	0.022
User Mobile Phone	0.332	0.029
User Real Desktop	0.000	0.337
User Transmission	0.797	0.013
User Form vs. Function	0.166	0.037
User New Features	0.465	0.031

Table A.968: Interface Backcolor

	Pearson Chi-Square asympt. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.735	0.026
User Gender	0.223	0.034
User Age Class	0.252	0.044
User Left Brained or Right Brained	0.550	0.021
User Designer	0.098	0.042
User Programmer	0.171	0.036
User Data Operator	0.904	0.009
User Knowledge Worker	0.701	0.016
User Entertainer	0.002	0.067
User Wrist Watch	0.532	0.031
User Remember Faces	0.348	0.029
User Remember Names	0.000	0.708
User Remember Numbers	0.000	0.707
User Mobile Phone	0.229	0.033
User Real Desktop	0.506	0.025
User Transmission	0.000	0.707
User Form vs. Function	0.000	0.707
User New Features	0.000	0.409

Table A.969: Interface Menus

	<i>Pearson Chi-Square asyp. sig. (2-sided)</i>	<i>Strength of relationship (Cramer's V)</i>
User Country Class	0.000	0.163
User Gender	0.000	0.140
User Age Class	0.002	0.067
User Left Brained or Right Brained	0.333	0.029
User Designer	0.000	0.200
User Programmer	0.019	0.055
User Data Operator	0.002	0.069
User Knowledge Worker	0.000	0.149
User Entertainer	0.006	0.062
User Wrist Watch	0.309	0.037
User Remember Faces	0.762	0.019
User Remember Names	0.000	0.707
User Remember Numbers	0.000	0.708
User Mobile Phone	0.877	0.015
User Real Desktop	0.333	0.029
User Transmission	0.000	0.707
User Form vs. Function	0.000	0.708
User New Features	0.000	0.410

Table A.970: Interface Wizards

	Pearson Chi-Square asyp. sig. (2-sided)	Strength of relationship (Cramer's V)
User Country Class	0.000	0.098
User Gender	0.000	0.076
User Age Class	0.000	0.073
User Left Brained or Right Brained	0.650	0.018
User Designer	0.000	0.077
User Programmer	0.000	0.078
User Data Operator	0.187	0.036
User Knowledge Worker	0.005	0.064
User Entertainer	0.181	0.036
User Wrist Watch	0.087	0.046
User Remember Faces	0.000	0.066
User Remember Names	0.000	0.070
User Remember Numbers	0.019	0.053
User Mobile Phone	0.011	0.049
User Real Desktop	0.019	0.047
User Transmission	0.575	0.023
User Form vs. Function	0.793	0.018
User New Features	0.375	0.035

D. DISTRIBUTION OF PARTICIPANTS AMONG COUNTRIES

Table A.971: Distribution of participants among countries

Country	Class	Frequency	Percent	Valid percent	Cumulative percent
Afghanistan	Middle East	13	0.5	0.5	0.5
Albania	Western World	4	0.2	0.2	0.6
Algeria	Middle East	3	0.1	0.1	0.8
American Samoa	Western World	3	0.1	0.1	0.9
Andorra	Western World	1	0.0	0.0	0.9
Angola	Western World	2	0.1	0.1	1.0
Anguilla	Western World	2	0.1	0.1	1.1
Antarctica	Western World	1	0.0	0.0	1.1
Argentina	Western World	35	1.3	1.3	2.4
Armenia	Middle East	1	0.0	0.0	2.4
Aruba	Western World	2	0.1	0.1	2.5
Australia	Western World	65	2.4	2.4	5.0
Austria	Western World	22	0.8	0.8	5.8
Azerbaijan	Domestic	2	0.1	0.1	5.9
Bahamas	Western World	1	0.0	0.0	5.9
Bangladesh	Middle East	1	0.0	0.0	5.9
Belarus	Western World	4	0.2	0.2	6.1
Belgium	Western World	26	1.0	1.0	7.1
Belize	Western World	1	0.0	0.0	7.1
Bolivia	Western World	1	0.0	0.0	7.1
Brazil	Western World	90	3.4	3.4	10.5
Bulgaria	Western World	10	0.4	0.4	10.9

Table A.971: Distribution of participants among countries (continued)

Country	Class	Frequency	Percent	Valid percent	Cumulative percent
Burkina Faso	Western World	1	0.0	0.0	10.9
Canada	Western World	74	2.8	2.8	13.7
Cape Verde	Western World	1	0.0	0.0	13.8
Chile	Western World	43	1.6	1.6	15.4
China	Far East	10	0.4	0.4	15.8
Colombia	Western World	25	0.9	0.9	16.7
Costa Rica	Western World	3	0.1	0.1	16.8
Croatia	Western World	8	0.3	0.3	17.1
Cyprus	Western World	7	0.3	0.3	17.4
Czech Republic	Western World	26	1.0	1.0	18.4
Denmark	Western World	14	0.5	0.5	18.9
Dominica	Western World	1	0.0	0.0	18.9
Dominican Republic	Western World	3	0.1	0.1	19.0
Ecuador	Western World	1	0.0	0.0	19.1
Egypt	Middle East	2	0.1	0.1	19.1
El Salvador	Western World	1	0.0	0.0	19.2
Estonia	Western World	6	0.2	0.2	19.4
Falkland Islands	Western World	1	0.0	0.0	19.5
Finland	Western World	10	0.4	0.4	19.8
France	Western World	63	2.4	2.4	22.2
French Polynesia	Western World	1	0.0	0.0	22.2
Georgia	Middle East	3	0.1	0.1	22.3
Germany	Western World	301	11.3	11.3	33.7
Greece	Western World	7	0.3	0.3	33.9
Grenada	Western World	1	0.0	0.0	34.0
Guatemala	Western World	2	0.1	0.1	34.0

Table A.971: Distribution of participants among countries (continued)

Country	Class	Frequency	Percent	Valid percent	Cumulative percent
Hong Kong	Far East	4	0.2	0.2	34.2
Hungary	Western World	15	0.6	0.6	34.8
Iceland	Western World	4	0.2	0.2	34.9
India	Middle East	49	1.8	1.8	36.8
Indonesia	Middle East	15	0.6	0.6	37.3
Iran	Middle East	4	0.2	0.2	37.5
Ireland	Western World	7	0.3	0.3	37.7
Israel	Middle East	8	0.3	0.3	38.0
Italy	Western World	46	1.7	1.7	39.8
Japan	Far East	1	0.0	0.0	39.8
Jordan	Middle East	1	0.0	0.0	39.8
Kazakhstan	Domestic	5	0.2	0.2	40.0
Laos	Middle East	1	0.0	0.0	40.1
Latvia	Western World	5	0.2	0.2	40.3
Lebanon	Middle East	1	0.0	0.0	40.3
Libya	Middle East	1	0.0	0.0	40.3
Lithuania	Western World	1	0.0	0.0	40.4
Macedonia	Western World	3	0.1	0.1	40.5
Malaysia	Middle East	11	0.4	0.4	40.9
Mauritius	Western World	2	0.1	0.1	41.0
Mexico	Western World	25	0.9	0.9	41.9
Moldova	Western World	7	0.3	0.3	42.2
Morocco	Middle East	2	0.1	0.1	42.2
Nepal	Middle East	2	0.1	0.1	42.3
Netherlands	Western World	83	3.1	3.1	45.4
Netherlands Antilles	Western World	1	0.0	0.0	45.5

Table A.971: Distribution of participants among countries (continued)

Country	Class	Frequency	Percent	Valid percent	Cumulative percent
New Zealand	Western World	17	0.6	0.6	46.1
Nicaragua	Western World	2	0.1	0.1	46.2
Nigeria	Middle East	1	0.0	0.0	46.2
North Korea	Far East	1	0.0	0.0	46.3
Norway	Western World	22	0.8	0.8	47.1
Pakistan	Middle East	4	0.2	0.2	47.3
Palestinian Territory	Middle East	1	0.0	0.0	47.3
Paraguay	Western World	2	0.1	0.1	47.4
Peru	Western World	4	0.2	0.2	47.5
Philippines	Western World	8	0.3	0.3	47.8
Poland	Western World	65	2.4	2.4	50.3
Portugal	Western World	25	0.9	0.9	51.2
Puerto Rico	Western World	1	0.0	0.0	51.2
Romania	Western World	26	1.0	1.0	52.2
Russian Federation	Western World	46	1.7	1.7	54.0
Saudi Arabia	Middle East	3	0.1	0.1	54.1
Serbia and Montenegro	Western World	9	0.3	0.3	54.4
Singapore	Far East	6	0.2	0.2	54.6
Slovakia	Western World	10	0.4	0.4	55.0
Slovenia	Western World	3	0.1	0.1	55.1
South Africa	Western World	13	0.5	0.5	55.6
South Korea	Far East	3	0.1	0.1	55.7
Spain	Western World	76	2.9	2.9	58.6
Sri Lanka	Middle East	2	0.1	0.1	58.7
Sweden	Western World	33	1.2	1.2	59.9

Table A.971: Distribution of participants among countries (continued)

Country	Class	Frequency	Percent	Valid percent	Cumulative percent
Switzerland	Western World	26	1.0	1.0	60.9
Syrian Arab Republic	Middle East	2	0.1	0.1	60.9
Taiwan	Far East	4	0.2	0.2	61.1
Thailand	Middle East	14	0.5	0.5	61.6
Trinidad and Tobago	Western World	1	0.0	0.0	61.7
Tunisia	Middle East	1	0.0	0.0	61.7
Turkey	Domestic	379	14.3	14.3	76.0
Ukraine	Western World	16	0.6	0.6	76.6
United Arab Emirates	Middle East	2	0.1	0.1	76.6
United Kingdom	Western World	134	5.0	5.0	81.7
United States	Western World	472	17.8	17.8	99.4
Uruguay	Western World	4	0.2	0.2	99.6
Uzbekistan	Domestic	1	0.0	0.0	99.6
Venezuela	Western World	4	0.2	0.2	99.8
Vietnam	Western World	4	0.2	0.2	99.9
Virgin Islands U.S.	Western World	1	0.0	0.0	100.0
Zambia	Western World	1	0.0	0.0	100.0
Total		2658	100	100	