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University of Illinois at Chicago
Consent for Participation in Research
“Evaluating the Use of Large, High-Resolution Displays in Visual Data Analysis”

Why am I being asked?

You are being asked to be a subject in a research study about Large, High-Resolution displays conducted by Computer Science PhD candidate *MHD Khairi Reda* at the University of Illinois at Chicago. You have been asked to participate in the research because you are not a minor and may be eligible to participate. We ask that you read this form and ask any questions you may have before agreeing to be in the research.

Your participation in this research is voluntary. Your decision whether or not to participate will not affect your current or future relations with the University or your grade in any UIC courses. If you decide to participate, you are free to withdraw at any time without affecting that relationship.

Why is this research being done?

Large, High-Resolution displays are becoming increasingly common. Scientists and researchers often use these displays to analyze large amounts of data, which would otherwise be difficult to do on traditional computer screens. It is important to develop techniques for creating effective visualization tools for these environments. The Electronic Visualization Laboratory at UIC has been a pioneer in the study of visualization interfaces for large displays. The development of better visualization tools has the potential to increase productivity and accelerate scientific discovery.

What is the purpose of this research?

The purpose of this research study is to understand the benefits and drawbacks associating with using Large, High-Resolution displays in the context of visual data analysis. Results form this study will allow us to devise guidelines for creating effective visualization tools in the future.

What procedures are involved?

If you agree to be in this research, we will ask you to do the following:

- You will undertake a simulated data analysis scenario, and use an interactive visualization tool to explore a dataset that will be given to you. The description of the scenario will be provided to you along with a list of questions about the data. Your task is to try to answer those questions. There are no ‘right’ and ‘wrong’ answers here. Rather, your answer should reflect your assessment of the data.
- Follow a short training on how to use the visualization tool.
- We may ask you to put on a pair of 3D glasses to view the visualization.
- Use the visualization tool to explore the provided dataset and answer the questions. You may also follow up on any additional questions you may come up with during your analysis. The maximum duration for this part of the study will be 2 hours.
- Undertake a short interview after you finish the task.
- During the study, you will be video and audio taped. We also ask that you try to keep talking out loud while trying to solve the task. Try to say anything that goes through your head.
- If you have questions during the study, please feel free to ask the researcher at any time. You may also take breaks at any time during the study.

Approximately 30 subjects may be involved in this research at the University of Illinois at Chicago.

What are the potential risks and discomforts?

The research has no foreseeable risks to you as a participant. Your information will remain confidential, and is not linked to your performance with the University of Illinois at Chicago.

Are there benefits to taking part in the research?

You will not any direct benefit for participating in this study. By participating in this research, however, you will also be contributing to the field of data visualization.

Will I be reimbursed for any of my expenses or paid for my participation in this research?

You will not be reimbursed for any expenses you incur by participating in this research nor will you be compensated in any way for your participation.

What are the costs for participating in this research?

There is not cost to you for participating in this study.

What about privacy and confidentiality?

The only people who will know that you are a research subject are members of the research team. No information about you, or provided by you during the research, will be disclosed to others without your written permission, except:

- when necessary to protect your rights or welfare (for example, if you are injured and need emergency care or when the UIC Institutional Review Board monitors the research or consent process); or
- when required by law.

When the results of the research are published or discussed in conferences, no information will be included that would reveal your identity. If photographs, videos, or audiotape recordings of you will be used for educational purposes, your identity will be protected or disguised. Any information that is obtained in connection with this study and that can be identified with you will remain confidential and will be disclosed only with your permission or as required by law.

- All identifying data, including images, recordings, and questionnaires will be kept under lock and key at the Electronic Visualization Laboratory for the duration of the study. Access to this data will be restricted to the principal investigator, *MHD Khairi Reda*, and his co-investigators.
- All other information that might identify you, such as response times, will be labeled with a numerical identifier to maintain your anonymity. The index of study participant names and numbers will be kept under lock in the Electronic Visualization Laboratory.
- We will request additional consent from you if we desire to use identifying images or recordings of you in a publication or for public presentation.
- All identifying images, recordings, and questionnaire results will be destroyed once the data has been fully analyzed or within one year, whichever comes first.

What if I am injured as a result of my participation?

In the event of injury related to this research study, treatment will be made available through the University of Illinois at Chicago Hospital. However, you or your third party payer, if any, will be responsible for payment of this treatment. There is no compensation and/or payment for such medical treatment from the University of Illinois at Chicago for such injury, except as may be required of the University by law. If you feel you have been injured, you may contact the researcher, *MHD Khairi Reda* at the Electronic Visualization Laboratory, 312-996-3002.

Can I withdraw or be removed from the study?

You can choose whether to be in this study or not. If you volunteer to be in this study, you may withdraw at any time without consequences of any kind. You may also refuse to answer any questions you don't want to answer and still remain in the study. The investigator may withdraw you from this research if circumstances arise which warrant doing so.

Who should I contact if I have questions?

The researcher conducting this study is *MHD Khairi Reda*. You may ask any questions you have now. If you have questions later, you may contact him at:

Phone: 312-996-3002 Email: mreda2@uic.edu

The faculty sponsor of this research is Associate Professor *Andrew E. Johnson*. You may contact him at:

Phone: 312-996-3002 Email: ajohnson@uic.edu

What are my rights as a research subject?

If you have any questions about your rights as a research subject, you may call the Office for Protection of Research Subjects at 312-996-1711.

What if I am a UIC student?

You may choose not to participate or to stop your participation in this research at any time. This will not affect your class standing or grades at UIC. The investigator may also end your participation in the research. If this happens, your class standing or grades will not be affected. You will not be offered or receive any special consideration if you participate in this research.

What if I am a UIC employee?

Your participation in this research is in no way a part of your university duties, and your refusal to participate will not in any way affect your employment with the university, or the benefits, privileges, or opportunities associated with your employment at UIC. You will not be offered or receive any special consideration if you participate in this research.

Remember: Your participation in this research is voluntary. Your decision whether or not to participate will not affect your current or future relations with the University. If you decide to participate, you are free to withdraw at any time without affecting that relationship.

You will be given a copy of this form for your information and to keep for your records.

Signature of Subject or Legally Authorized Representative

I have read (or someone has read to me) the above information. I have been given an opportunity to ask questions and my questions have been answered to my satisfaction. I agree to participate in this research. I have been given a copy of this form.

Signature

Date

Printed Name

E-mail address

Signature of Researcher

Date (must be same as subject's)