

Materials

Study 1

- Printed protocol
- In Person
 - Printed consent forms (4: 2 en, 2 fr)
 - Pens (2)
- Online
 - Email the consent form
 - Create/Email the survey link
 - Video conferencing ready
 - Including screen share
- Tutorial setup ready
 - TimeALine working
 - Spreadsheets ready
 - Tutorials accessible

Study 2

- Printed protocol
- Recording software ready, audio only is needed.

First Interview Script

Welcome to the study.

The purpose of this study is to test a tool for doing personal timeline visualizations. We are interested in studying how different people approach designing visualizations with a novel visualization tool, where that tool supports your workstyle, and where it is problematic.

In the next half hour, I'm going to give you an overview of the tool, what its purpose is, give you a chance to go over a couple of tutorials on using the tool, and discuss the dataset and visualization you might want to make.

When we're done here, I'd like to schedule a second interview to talk to you about your experience using the tool. Then I will ask in the next couple of weeks to spend between 1 and 3 hours creating a visualization. When you are finished, we are going to ask you to package your workspace using the utility provided and upload it to our server a couple of days before the followup interview. This is so I can review it to identify anything interesting in the interactions. We will then have a followup interview.

Formalities

Consent forms

<Online participants should already have had a look through these, but at this point give them a chance to ask any questions. In person participants will be given a paper copy>

To receive the [€30-€60] we need to supply your banking details as well as employment status to Inria. Will this be alright for you?

If not, you can still participate in the research, we just won't be able to pay you.

We also have a short demographic survey to fill out.

Finally, the last formality we have is a release of copyright, which we will tackle in our second meeting. I'm just letting you know about it now. After we have completed the second study, you can decide if you would be alright with the visualization you have created being published as part of the research study. If yes, we will ask you to sign a release of copyright on the image so we can legally publish it.

Examples of TimeALine

So to explain the tool, the TimeALine tool is designed to enable sketching with time data for the purpose of storytelling.

Here are some examples of visualizations that inspired us to create the tool: inspirations.png

Some points we aimed to support

- Flexible timeline visualizations are good for storytelling
- Bottom right, they use line shape to convey meaning, also connotative feel (plant top right)
- Top left, using personal data, has multiple datasets that need to be integrated
- Illustrative photos are very popular
- Highlighting points of interest

Tutorial

We have three tutorials, basic lines and data, advanced annotation, view navigation and controls.

What equipment will you be using?

<online>

I am going to give you control of my screen so I can get you to follow along with the tutorial.

Please watch and follow along with these tutorials now.

<during this part, I will be explaining as we go, the idea is to get the users up to “Expert” level as fast as possible>

Their Visualization

Main question: Do you want to use one of our datasets or is there another dataset you are interested in using?

Using our Data

- Please pick one dataset and try to complete a visualization.
- You can feel free to think about it, just send me an email when you've decided on a set.
- You can feel free to extend or modify the data, please do not spend more than 45 minutes on data cleaning/manipulation outside the tool.

Using their Data

- The data must be time data
- The dataset must be in the 10 - 200 items range
- The data should be already collected and require no more than 45 minutes on data cleaning outside the tool

Second Interview Script

Welcome back for the interview portion of the study.

Formalities

Filling out the Inria payment form.

Audio recording

I am going to be audio recording this, will that be alright for you?

Analysis of Results

Before the interview, I will ask the participants to package their workspace and share it with me via MyBox. I will then review the pseudo video and the analysis graph and identify:

- Changes in design: Did they start developing one way then changed to another
- Development rhythm: did they do it all at once or did they go away and return
- Challenges: Did they click through multiple tools repeatedly without making changes? Did they move the mouse around a lot without making changes? Did they undo redo a whole bunch
- Were there significant changes made in a short period of time?
- Unusual or unexpected behavior

Post Interview

<This interview will be largely based on what I see them doing in the workspace>

1. Tell me about your final result
 - a. Is there a narrative thread in the visualization
2. Design process
 - a. If there were design shifts: Ask about what motivated particular design shifts
 - b. Ask about rhythm, did they stop and start or do it all in one go? Is this how they wanted to work or was it motivated by external factors?
 - c. Ask about what motivated interesting features
 - d. Ask what the general design represents
3. Execution
 - a. Were any parts particularly helpful
 - b. Were any parts particularly challenging
 - c. Ask about motivation behind unusual behavior
4. Comparison with their usual design or artistic practices
 - a. How did they find the overall experience with the tool
 - b. How does it compares with their usual design practice
 - c. OR

- d. How does this tool extend you previous practices
- e. Will (or would) you change your practice based on this experience

Payment and release of copyright

I will finally ask them if they would be alright with the image being published, and get them to sign the release of copyright if so.