

Transcription of test with Participant Y

Participant Y had a lot of previous experience with many different GIS applications and editing maps in general. Participant seemed to be excited about trying out the eye tracking. The calibration showed very good precision and accuracy. When preparing for the testing, the participant really enjoyed the game and had fun. Participant was a quick learner and ?

Task 1

06:08 - Start

06:10 - Selects "Mark", checks the paper for the name. 06:13 - Selects "Mati" and tries to reselect it again.

06:19 - Discovers "Close" and presses it.

06:25 - Looks at Tallinn but seems puzzled, starts looking around, checks paper and tries again.

(Either her gaze did not stay stable enough or the pan area was activated instead but did not move the map as it is fully zoomed out)

06:45 - Fixation Menu appears

She has no problems whatsoever zooming inside and navigating to the old town.

07:21 - she has arrived at Raekoja plats. - Done

Times

Choosing username: 0:11

Navigating to Raekoja plats: 1:02

Total 1:13

Task 2

09:03 - Start

Zooms out and moves to south, finds the airport.

09:20 - She has arrived and now checks the paper.

09:29 - Opens the Layers Menu and chooses "Points". Tries it again, seems to be confused, reads the paper tries different things and understands that she has to look in the Tools mMenu.

10:21 - Opens the Tools Menu. And chooses the right tool and immediately uses Fixation Menu to place a point. She forgot that she had to place it over a specific airplane, so she just places it on the airfield.

10:29 - Save

10:32 - Type

11:01 - Enter

11:04 - Save

Times

Navigation to Airfield: 0:17

Placing the point: 1:09

Editing metadata: 0:35 (of which typing took: 0:29)

Total: 2:01

Task 3

12:10 - Start

12:11 - Tools Menu

12:14 - Select Point tool

12:29 - Point selected

12:32 - Edit

She seems to have problem with targeting the Type field as she has gotten too close to the computer. Eye Position Display jumps into view and she immediately understands and leans back and to reposition herself.

12:41 - Type

12:49 - Save

She immediately understands she has to move the point so she continues with selecting the point. Chooses the Move Point tool and uses it to move it onto an airplane.

13:33 - Save. Done.

Times

Editing metadata: 0:39

Moving point: 0:44

Total: 1:23

Discussion

There seems to be nothing too difficult. Using eyes for controlling is unusual for her. She tells that once you get used to know, where to look for things (Layers, Tools, Metadata) - it's quite good!.

She thinks that it was her fault, that the Fixation Menu did not appear in the beginning when she wanted to go to the tallinn.

Task 4

18:07 - Start

Starts zooming out to see the whole field.

Chooses right layer, the right tool and starts placing the points. She uses arrow buttons to move the fixation menu.placing the

"There should be a Point in the middle on the Fixation Menu [instead of the big red area.]"

She successfully places multiple points along the way without losing Fixation Menu. She continues to follow the road using arrow buttons to move it. As it is the wrong technique it takes along time.

21:15 she loses the Fixation Menu accidentally - now she is afraid, that the line is "broken"

The Fixation Menu appears and she tries placing new points and realizes the line is still OK.

22:00 loses fixation menu again for a second

22:18 Isn't there a FastForward somewhere?

22:20 - realize that she can just look at the destination! "Aaaaah!" and moves the eyes to the end of the road.

22:30 the last point is placed

22:34 - Save

22:40 - Type

She is not in a good position and the Eye Position Display notifies "Lean Back" - but she does not notice.

23:10 - Save - Done!

Times

Drawing: 4:27

Metadata: 0:36 (Typing: 0:30)

Total: 5:03

Discussion

The only thing that confused her, was understanding that the line will still continue after losing the Fixation Menu she has a good suggestion - the last point should be connected to the Fixation Menu.

Task 5

26:10 - Start

Navigates to airport building, chooses the correct layer, chooses the correct tool and starts placing points. If the next point is close, she uses arrow buttons, if not she uses the correct method of looking at the final location (Starts also using "look-away" method, to get the Fixation Menu go away).

27:20 - Places the first point (does it quickly in order not to lose the right location)

30:03 - building is ready - 10 points!

Instead of saving, she starts looking the metadata from the tools menu and accidentally chooses "Add polygon" that restarts the placement and the figure is lost....

31:25 - she starts to draw a new one

33:10 - Save (8 point building)

33:14 - Maakasutus

33:31 - Enter

33:32 - Save

Times

Drawing: 7:00 (Building 1 - 3:53, +(time being confused) + Drawing second time: 1:45)

Metadata: 0:22 seconds (0:17s typing)

Total: 7:22

Task 6

35:58 - Start,

selects tool, selects remove point, deletes first point and the other one

36:40 - Done

Times

Total: 42s

Discussion - expected the tools menu to disappear, after selection, but understood that she has to look away.

Task 7

37:32 - Start

Chooses tool, selects building - but chooses Discard - this is not the correct button. Understands and tries again. This time with correct tool.

38:09 - removed the building, moves now to find the line and points

Now she is confused why she can not select the points and lines. She does not

39:09 - she understands that she needs to choose the right layer.

39:31 - removes point

39:56 removes line

Done!

Times

Total: 2:24