Consent Form

Study Overview

This study aims to assess how Functional Reactive Programming Languages are used. To do this, we will be asking you to modify a Mario game to get him to fly. The session will take no more than 1 hour.

During the session, you will be introduced to Elm, a functional reactive programming language, as well as being shown what we want you to create. We'll also present you with a questionnaire to see what experience you've had with Functional programming (or similar concepts) before. Finally we'll give you another questionnaire to ask how you think the session went, and the level of workload in the task.

The session will be recorded on video and then the audio from the session will be transcribed anonymously in order to find any problems that you had during the session. During this process, the data will be stored securely. Important Information

All data collected during this study will be recorded such that your individual results are anonymous and cannot be traced back to you. Your results will not be passed to any third party and are not being collected for commercial reasons. Participation in this study does not involve physical or mental risks outside of those encountered in everyday life. All procedures and information can be taken at face value and no deception is involved. You have the right to withdraw from the study at any time and to have any data about you destroyed. If you do decide to withdraw, please inform the experimenter.

By signing this form you acknowledge that you have read the information given above and understand the terms and conditions of this study.

Name	Age	Sex	Occupation
Participant #1	**23**	**Male**	**Student**

Signed

- **YES**

Date

- **10/12/2013**

Experimenter: Simon Buist, Dept. of Computer Science. EMAIL ADDRESS

Pre-questionnaire

Functional Programming languages

1. Have you ever used a Functional programming language before? Examples are: Scheme, Lisp, Haskell, ML, SPARK. Please circle one answer)

   - **Yes**
   - No

2. If so, please list the Functional programming languages you've used before:

   - **Lisp**

Design & Software

For the purposes of this questionnaire, we consider a piece of software to be an application for which you have received/conceived of a specification, and coded a solution that meets this solution.

1. Have you designed software before?

   - **Yes**
   - No

2. On what platforms have you designed software?

   - **Desktop**
   - Mobile
   - Tablet
   - Web

3. For what purposes have you designed software?

   - Commercial
   - **Academic (e.g. Coursework)**
   - Personal project
   - Other:

4. Roughly how many pieces of software have you designed?

   - **5**

5. What programming languages do you know?

   - **Java, prolog, php, lisp**

General Demographics

1. How old are you?

   - 23

2. What is your sex? (Please circle one answer)

   - **Male**
   - Female

3. What is the highest degree or level of education you have completed? If currently enrolled please indicate the highest you have attained previously. (Please circle one answer)

   - None
   - GCSEs or equivalent
   - **A/AS levels or equivalent**
   - BSc/BA or equivalent
   - MSc/MA or equivalent
   - PhD or equivalent

4. In what field was your highest qualification?

   - General studies

5. What is your current employment status? (Please circle one answer)

   - Unemployed
   - Self-employed
   - Employed
   - **Student**
   - Retired
   - Unable to work

Post-Questionnaire

1. Please detail any comments on the result that you achieved

   - **I am happy with my result.**

2. Please detail any comments on how you achieved it

   - **My first intention was to get myself familiarised with the language and its syntax and understand the basics of what the code was doing. After that I experimented with a few changes and succeeded in finishing the task.**

3. Please detail any other comments

   - **I think that the goal of the task could have been made more clear from the beginning, specifically what is meant by having the character fly and what should happen when you press the jumping button. Also, had to ask for the movement characters as they were not explained in the task description.**

If you want to have the study as a whole explained to you, please do so now. However we ask that you refrain from discussing this with potential future participants.