

Psychological Task Design & Development

A Programming Workshop Part I_A - Introduction

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Background

- PhD candidate – Developmental Psychology (UvA)
- Project details:
 - Focus on cognitive processes in development of addiction
 - Developing cognitive training aimed at adolescents to prevent escalation of substance use: www.implicit.eu
 - Using game elements to motivate them to finish training
- 6+ years experience designing & developing computer-based psychological assessment and training
 - Tools: Adobe Flash (ActionScript 3), PHP, R, Presentation, ..
- 2 Assistants:
 - Johanna Quist (former student, programming adept)
 - Soraya Sanchez Maceiras (current master student)

Introduction – What's The Plan?

Focus on task design and development

- Basics of programming; several advanced techniques

Many languages (Presentation, Inquisit, E-Prime, JavaScript, etc.)

- Can't cover them all! → focus on one language: ActionScript 3

Why ActionScript 3?

- Clear syntax for learning
- Many features for advanced designs (NB: no fMRI / EEG support)
- Basis for Flash (web), but also AIR (desktop, mobile apps)

What we won't (learn to) build in this workshop:

- Complete tasks (not enough time!)
- Flashy animations
- Elaborate analysis scripts

(Rough) Workshop Overview

Part I (This morning)

- A. General introduction to the workshop
- B. Task design & requirements engineering

Part II (This afternoon)

- A. Flash IDE - getting to know the environment
- B. Basic programming principles (with exercises)
- C. Advanced programming concepts (with exercises)

Part III (Tomorrow morning)

- A. PhD Presentations: Peggy Bongers & Jantine Boselie
- B. Where can we take this?
- C. Advanced programming continued (with exercises)

Part IV (Tomorrow afternoon)

- A. Advanced programming continued (with exercises)
- B. Recap & future programming

Before Getting Started

- First time EPP Programming Workshop: Diverse audience
 - Schedule may be adjusted a bit
 - Do ask questions!
 - Feedback is welcome!
 - Topic requests for day 2? Write them down!
- Team up!
 - Many basic & advanced exercises (& challenges!)
 - Do work together with someone with more / less experience
 - Show of hands: experience?
 - Support website: wouboe.nl (slides, exercises, solutions)
- Does everybody have a laptop + Adobe Flash CC installed?