CS242 Project Proposal

1. Abstract

1.1 Document Purpose:

This document is a final project proposal for CS242 Programming Studio at The University of Illinois at Urbana-Champaign. It is going to describe the program that I will create to complete this assignment. I am going to program a 2d side-scrolling game. I will specify the game design and timeline for coding the game.

- 1.2 Definition: Mario a 2d side-scrolling action game with a plumber protagonist armed with a super sexy mustache that takes hallucinogenic mushrooms to grow himself.
- 1.3 Background/Motivation: Mario is a favorite game of mine from childhood (also to this day), motivating me to create this program.

2. Technical Specifications

- 2.1 Platform: Cross-platform
- 2.2 Programming Languages: Java
- 2.3 Coding Standard: https://wiki.engr.illinois.edu/display/cs242sp14/Style+Conventions
- 2.4 SDK: JDK 1.6 2.5 IDE: Eclipse
- 2.6 Interface: Eclipse Console/Java GUI Window
- 2.7 Other Technical Details: None

3. Functional Specifications

- 3.1 Affordances: This project will provide entertainment to fans of Mario
- 3.2 Features: This game will feature an experience of playing Mario as true to the original game as possible. You can play the original game as reference.
- 3.3 Scope: While the game should adhere to as many rules as possible given the timeframe, it will most likely be rough around the edges in the GUI than a currently released product.
- 3.4 Prospective Look/Mockup:



Timeline

Week 1: Block/Level library organization.

Level generation through strings.

Outline the GUI

Sprite Sheets

Week 2: Implement basic user interaction (movement, winning levels)

Non-static GUI

Write more tests for simple user actions/manual test plan

Week 3: Simple AI movement for enemies

Point system implemented/Collectibles

Week 4: Generate more levels

Add one special move for the player

Add a hidden area (pipes)

Future Enhancements: Allow for multiple players. Embed the game in a webpage.