

For my CART 263 final, I am proposing a continuation of a hypertext narrative I designed last year for a separate class by creating a narrative based game as its new chapter. By continuing development of the P5 library, along with P5.play and P5.sound, it is my goal to build a modular engine that would be reusable by anyone with access to the .js files. If all is successful, the engine will have the following technical features:

- Queueable text for dialog boxes from external .txt files.
- Keyframe animation system.
- Inertia based movement controls.
- Enemy pathing systems.
- A fog of war effect optimized to use as little resource as possible.
- A small collision detection library for different shapes.
- A state machine for scenes.
- And if I have time, documentation on how to reuse the engine.

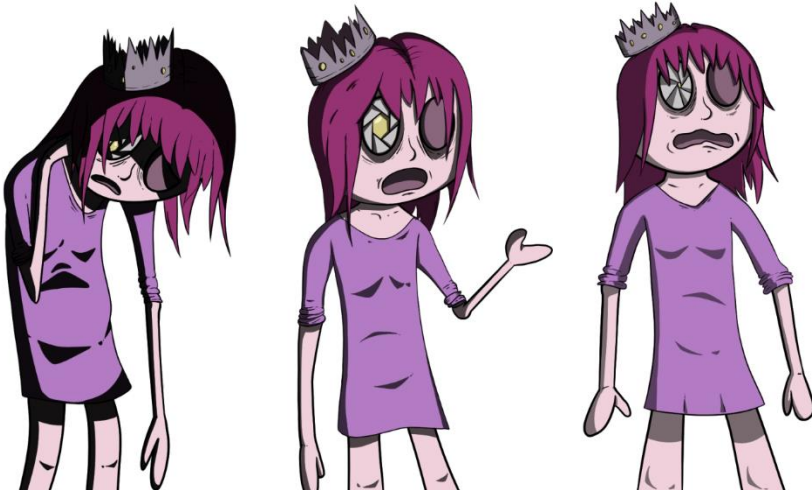
The largest technical challenge of this project will be keeping everything clean and orderly to make the engine usable to others. I have already begun planning out the workflow and it's my hope that by critically looking at my development time project 2 last year, I will be able to accomplish all of this on time.

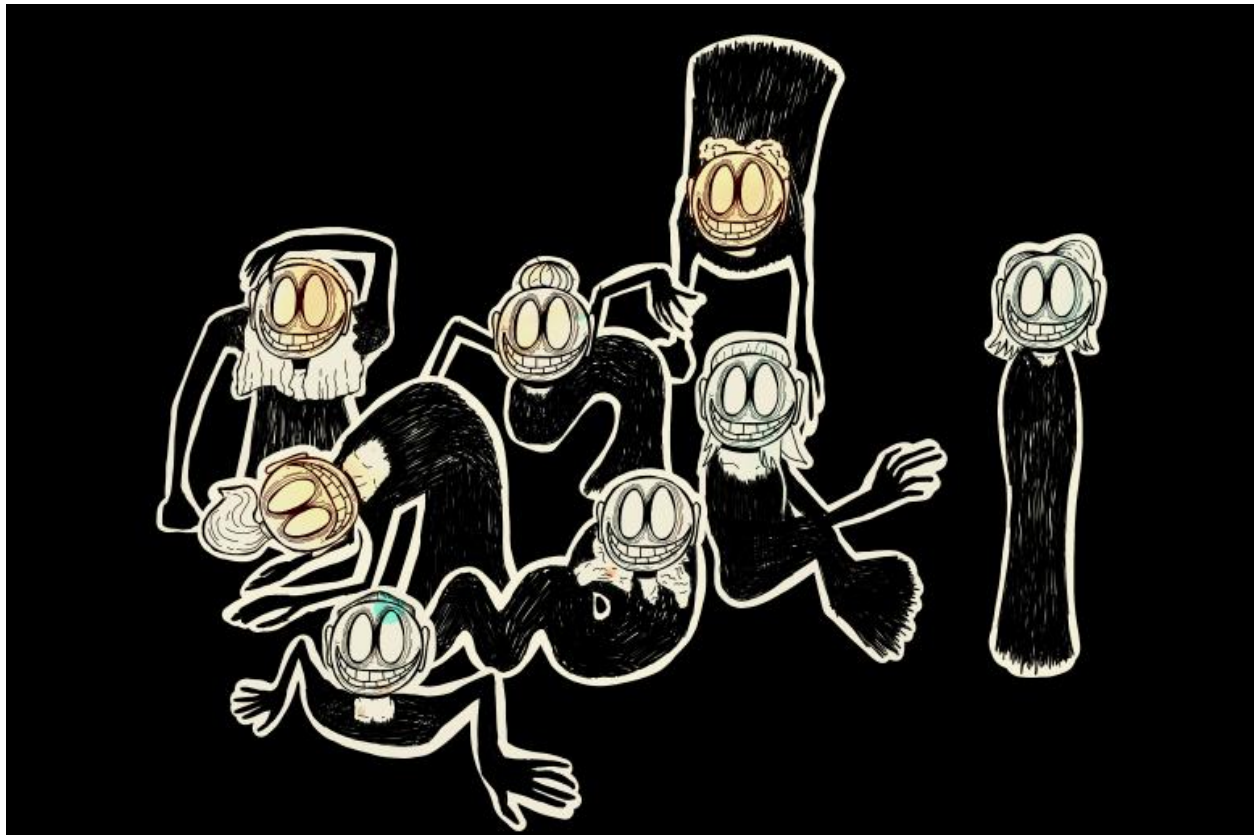
As for the non-technical elements of the project, its narrative structure will be a blend of fantasy, horror, and humour as I explore the journey of transition in the most absurdist way possible. Rather than get into the details about what the story will look like, I would encourage you to give a quick read through of the first 2 chapters at www.palemaskpress.com as that will do a better job explaining where things are going. I acknowledge this is an ambitious project and I'm still not completely convinced I can pull off everything as cleanly as I hope, but I am confident I can have the full project done. Planning for this started at the beginning of semester and little by little I have been building all the non-technical resources so that will not be a bottleneck during development. Be it the technical portion, the audio/visual elements,

or the scripted narrative, this project was intentionally built to push my comfort levels and regardless of anything else, I can genuinely say I am excited to see how it will turn out.

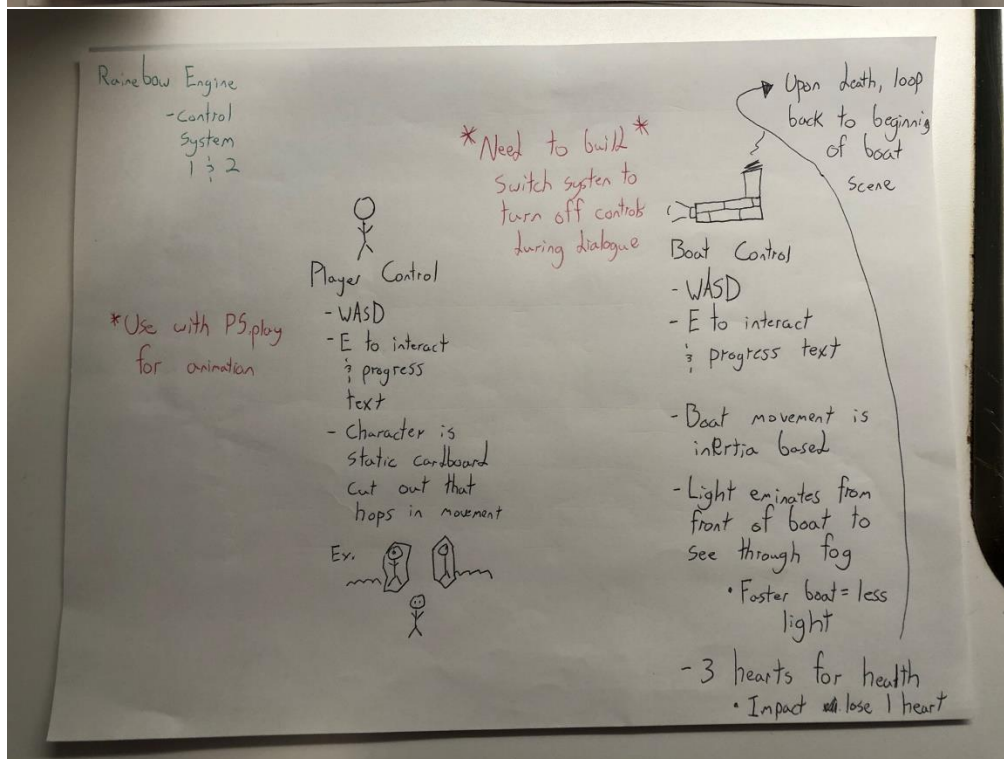
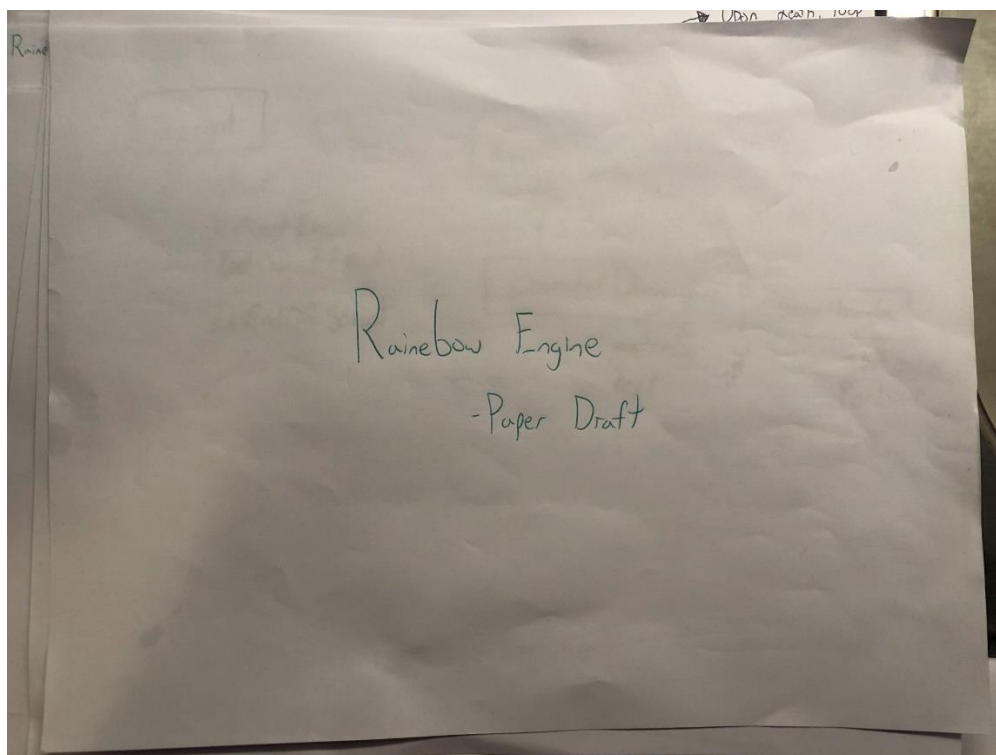
Assets and Mock-Ups

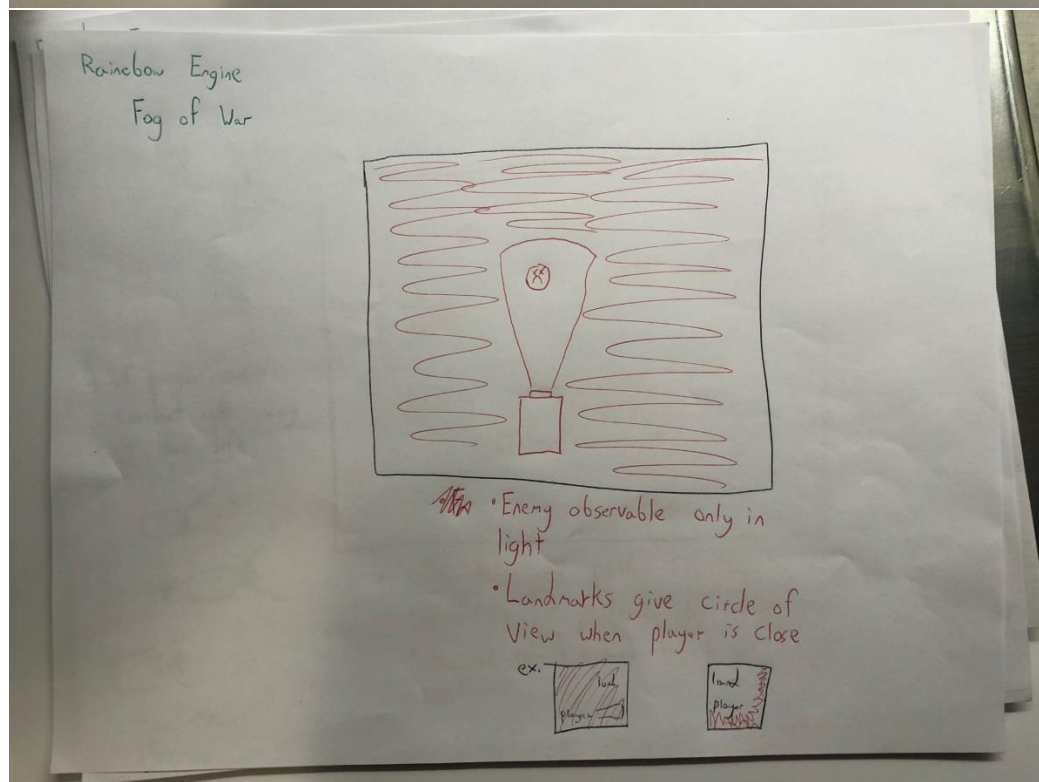
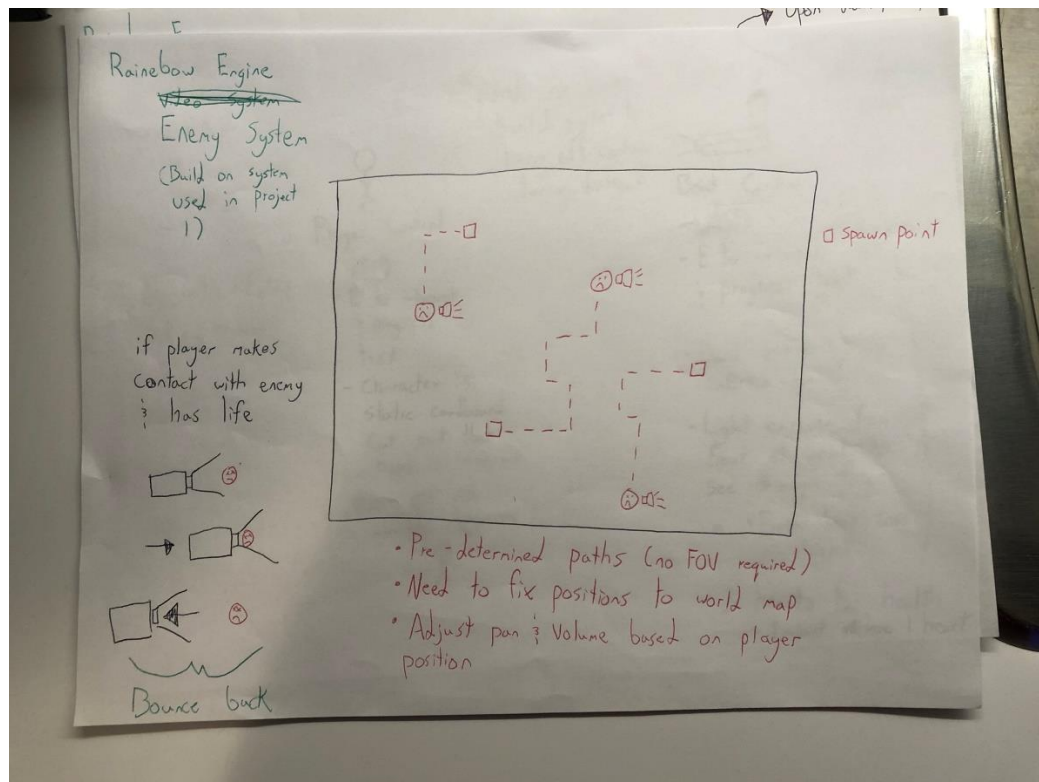




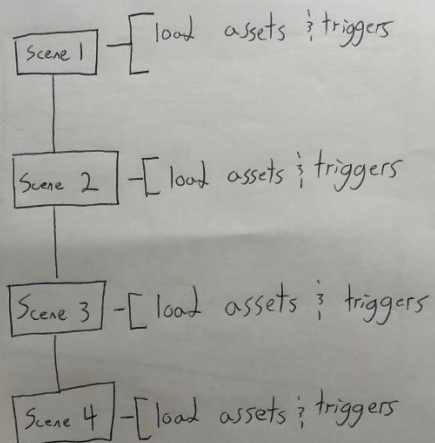


Technical Papers

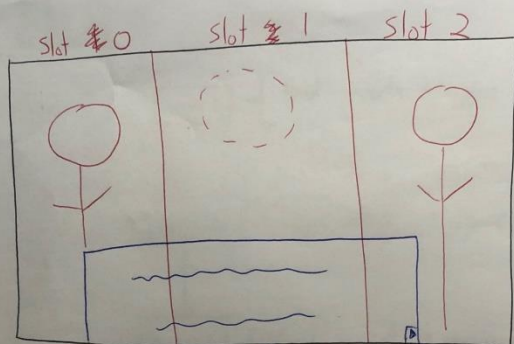




Rainbow Engine Scene State machine



Rainbow Engine - Dialogue/ Narrative System



→ Upon death, loop

• 3 image slots
overlayed over
play area
(possibly with
darkened bkg)

→ Text is formatted

→ indicates texts is displayed
; user can continue

→ Array.length gives appropriate text box count

• txt → Breaks up by paragraph
→ load into string//
each string is own
text box
(Array?)

* How to
trigger events?

Rainbow Engine

Rainbow Engine Game Object

- Bundles all required assets to an object

Scene Animator

- Allows for easier animation of both pre rendered scenes ; scenery animation
- How do i make this??

Collision Detection

- All math formulas for Collision Detection

~~Movie caller~~

- Could I make a movie scene they have text lay over top of it?

