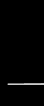


Video Game development in Lua using the LÖVE2d Engine



Overview of the Workshop



- Talk briefly about video game History
- Overview the common principles/workflow of video game development
- Walk through the basics of Lua and LÖVE2d
- Write some basic applications in LÖVE2d
- Finally we will make Pong!

Video game History

- Dates back to the 1950s where they were simple electronic games using the display as output
- 1970 first consumer video game released in arcades was Computer Space
- Followed by Pong in 1971 and the first console the Magnavox Odyssey
- Today video games are one the largest pieces of popular culture across the world
 - One of the largest markets in entertainment
 - One of the top 10 hobbies in the world!



Video game Development Principles

- Conceptualize
 - Brainstorming, research, refinement
- Pre-Production
 - Storyboards, wire frames, mock ups
 - Game play loop, objectives, production, pacing
 - Choosing an engine
 - Lore
 - Art style
- Production
 - Programming, art design, asset creation
 - Refining game play loop and inputs
 - Level design
- Testing
 - Beta testing
 - Feedback
 - Refinement
 - Accessibility
 - Playability

Video game Development Principles

- Launch
 - Marketing
 - Profit??
 - Advertisements
 - Crowdfunding
- Post launch support
 - Bug fixes
 - DLC
 - Community management

Tools of Game Development

- Engines

- Unreal, Unity, Godot, LOVE2D
- Languages: Rust, C++, C#, Lua, python, and more!

- Modeling

- Blender
- Asset Forge



- Image editing

- Photoshop
- Illustrator
- Canva



- Assets

- Kenney
- Unity Asset Store
- Open Game Art

- Sites

- Gamedev.net
- IndieDB
- Gamedev underground

- Education

- Unity Learn
- Unreal Tutorials
- Youtube



Lua Basics

- Dynamically typed
- Interpreted language
- Used quite commonly for configurations, scripting, game dev, and much more!
- Demo/Learning Time!

