PlayCanvas E2E (the quick version)

Joao Ruschel • 11.04.2021

Structure

- Introduction
- What is PlayCanvas?
- Phase 1: setup
 - Asset Management, Templates
 - Launching & Editor Link
- Phase 2: Interactivity
 - Scripting, Events, Physics
 - Animation System
 - Debugging
- Phase 3: Polishing & Publishing
 - User Interface
 - Audio
 - Publishing to the World!
- Wrap up

Joao Ruschel

Who am I

- Software Engineer @ PlayCanvas
 - o *jpaulo* on Forum
- Ex-Amazon **Alexa**
- Indie game developer
 - STAP
 - Minar





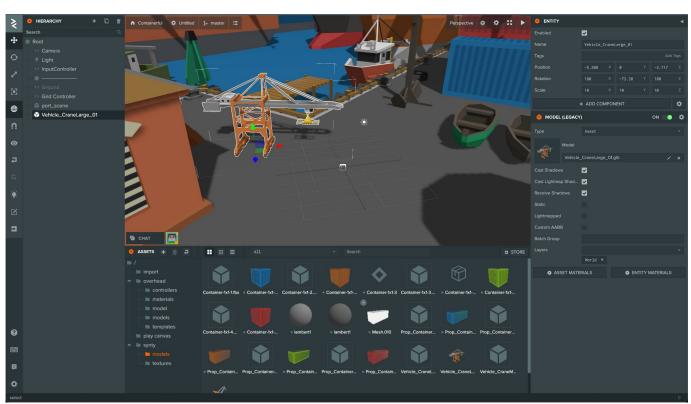


Minar

 STAP







PlayCanvas: the web-first game engine



PlayCanvas

Engine

- **Core** functionality
- Open-Source
 - https://github.com/playcanvas/engine
- 335 kb zipped download
- Available as stand-alone
 - NPM
 - Minified
 - Build from source

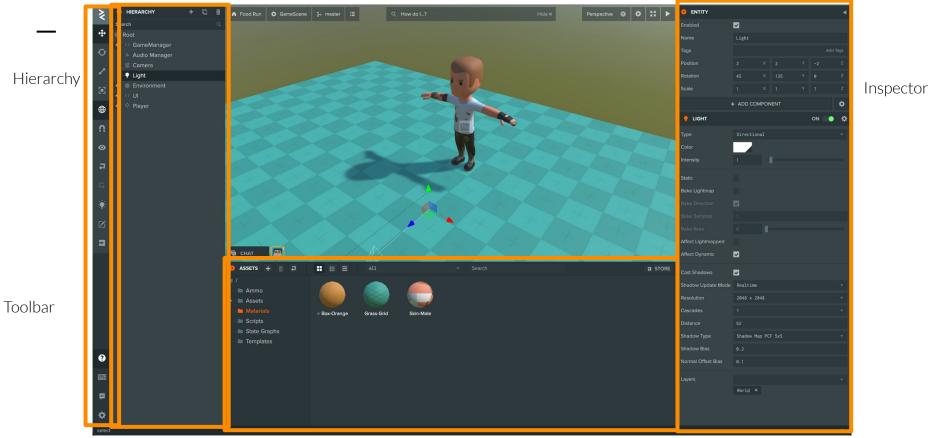
Online Editor

- https://playcanvas.com/
- Collaborative by design
- Powerful backend
 - Asset processing
 - Texture compression
 - Model conversion
- Free tier
- Unlimited free hosting for publishing apps and games



Features

- **Online** code editor with built-in IntelliSense
- Powerful backend
- ZERO 'build time'
- WebXR support
- Fully-featured git-like Version Control System
- Editor is multi-platform and a 2.1MB zipped download
- UI, Audio, Animation system, Physics, Templates
- Advanced graphic features (lightmapper, PBR, shadows, ...)
- Support channels: Documentation, Forums, Discord
- ..



Project Assets

The PlayCanvas Editor

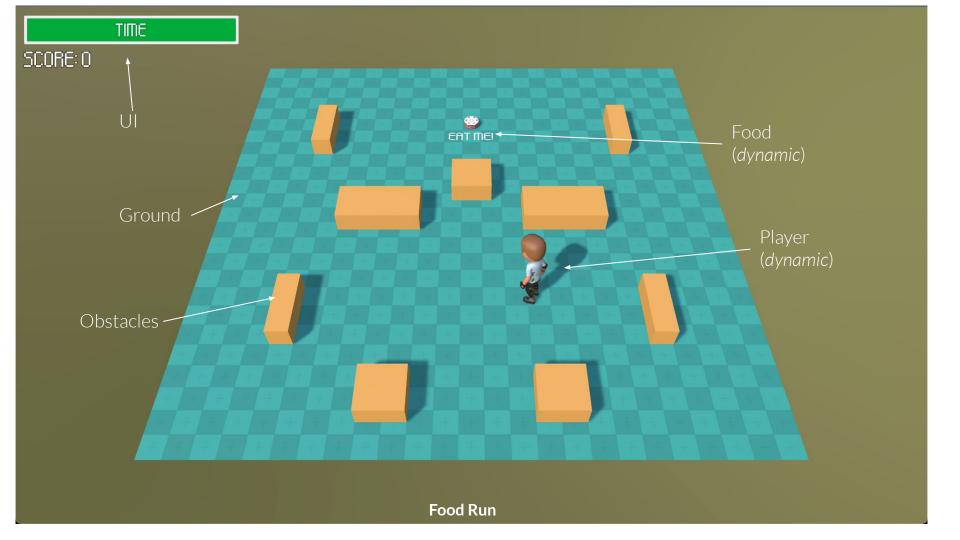


Useful Links

- Made with PlayCanvas
 - https://github.com/playcanvas/awesome-playcanvas
- **Examples** browser
 - https://playcanvas.github.io/
- API reference
 - https://developer.playcanvas.com/
- Tutorials
 - https://developer.playcanvas.com/tutorials
- Forum
 - https://forum.playcanvas.com/
- Twitter
 - https://twitter.com/playcanvas

Let's build something!

https://playcanv.as/p/dCoHvsRY/



Phase 1 Project Setup

Phase 1

¶ Fork 0

- Assets
- Templates
- Launching
- Editor Link

- Open the link "Food Run Starter Kit"
 - a. https://playcanvas.com/project/910590
 - b. Contains all base assets
- 2. **Fork** the project
 - This will create your own copy of the project
 - b. It's your project to do as you please!
- After forking is complete, open it in the Editor



Let's go!

Phase 1 - Wrap Up

- Creating and Managing **Assets**
- Creating and Using Templates
- Testing in the Launch Tab
- Using the **Editor Link**

Phase 2 Interactivity

Phase 2

- Scripting
- Events
- Physics
- Animation System
- Debugging

To continue, choose one:

1. Continue from your current project

OR

- 2. **Fork** the "Food Run Phase 2" project
 - a. https://playcanvas.com/project/910606

Let's go!

Phase 2 - Wrap Up

- Creating and using Scripts
- Attaching, Detaching, and Firing Events
- Using Physics collision and rigidbody
- Creating Animation State Graphs and setting parameters
- **Debugging** code and graphics
 - ChromeDevTools
 - SpectorJS

Phase 3 Polishing & Publishing

Phase 3

- User Interface
- Audio
- Publishing

To continue, choose one:

1. Continue from your current project

OR

- 2. **Fork** the "Food Run Phase 3" project
 - a. https://playcanvas.com/project/910630

Let's go!

Phase 3 - Wrap Up

- User Interface
- Audio
- Publishing

- Creating and Editing User Interfaces
- Using Audio
- Publishing for free using PlayCanvas hosting

Wrap Up

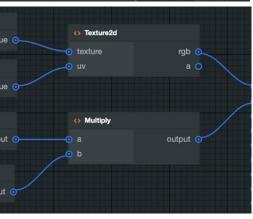


Wrap up

- Build a full game using PlayCanvas
- Publish it to the world!

- Follow us on Twitter!
 - https://twitter.com/playcanvas
 - https://twitter.com/dejohn_paul
- Contribute to Open-Source
 - https://github.com/playcanvas/engine





Extras

- PCUI PlayCanvas User Interface Framework
 - Lightweight HTML5 + CSS3 for complex front-end web tools
 - Used by the Editor to render its UI
 - https://github.com/playcanvas/pcui & NPM
- PCUI-Graph
 - Extension to PCUI for node-based UI
 - Used by the Editor's Animation State Graph editor
 - https://github.com/playcanvas/pcui-graph & NPM
- glTF Viewer
 - https://playcanvas.com/viewer
- Internal Beta: Shader Editor!

Thank you!



PLAYCANVAS



Slide Templates

Progress - Topic area 1

Accomplishment 1

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Accomplishment 2

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Progress - Topic area 2

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Attention areas

Risk 1

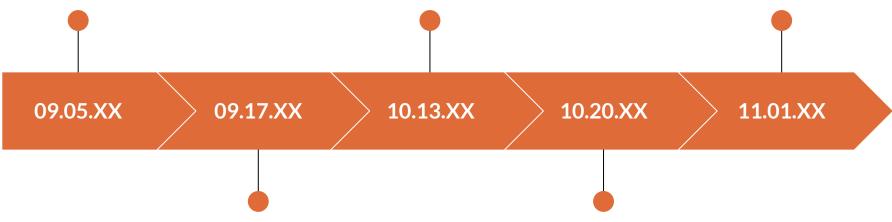
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Risk 2

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Next steps

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Assignment 2

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Assignment 3

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Goals for next meeting

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- 3. Ut enim ad minim veniam, quis nostrud exercitation