

She's Pivotal Workshop Tracks

Track 1: Introduction to Coding Concepts

Leader: Steve Womack

Hour of Code Star Wars Exercise

Description

This learning includes 15 modules. By the last module you are making your own simulated game with the Star Wars characters, so it does work up to some more challenging exercises.

Introduction to students

1. Watch introduction video before starting exercises.
2. Lesson contains 15 modules. We will walk through the first module together.
3. Please ask if you need any assistance. We are here to help.
4. This lesson should take about 30 to 45 minutes, but if you explore, it can last as long as you want.

Links

- Home page (<https://code.org/starwars>) with selection of Blockly or JavaScript programming language versions and inspirational videos
- Select the **Blockly** version of lesson
(<https://code.org/api/hour/begin/starwarsblocks>)

Hour of Code Frozen Exercise

Description

This Blockly learning includes 20 modules and, like the Star Wars exercise, evolves from basic into more challenging activities. It does begin a little more challenging than Star Wars, though.

Introduction

1. Watch the introduction video before starting exercises.
2. Lesson contains 20 modules. We will walk through the first module together.
3. Please ask if you need any assistance. We are here to help.
4. This lesson should take about 45 minutes to 1 hour, but if you explore, it can last as long as you want.

Links

- **Blockly** version of lesson
(<https://studio.code.org/s/frozen/stage/1/puzzle/1>)

Track 2: Intermediate Coding Concepts

Leader: Sharath Sahadevan

1. First exercise

This learning includes 20 modules. By the last module you are making your own simulated game where the angry bird moves through a maze to get the evil pig that stole its eggs. As with the Star Wars game, it works up to more challenging exercises.

Introduction to students

- Watch introduction video before starting exercises.
- Lesson contains 20 puzzles. We will walk through the first module together.
- Hour of Code - Angry Birds example: <https://studio.code.org/hoc/1>
- Please ask if you need any assistance. We are here to help.
- This lesson should take about 30 to 45 minutes, but if you explore, it can last as long as you want.

2. Other exercises

These learning modules are a little more advanced. You can watch videos on how to create projects and how to use the training modules.

- **Scratch**
MIT's introductory block coding framework: <https://scratch.mit.edu/>
- **Google CS First**
Each box on the Google CS First screen leads to a different set of predefined activities
 - Watch the videos to get direction for the exercises
 - Website: <https://www.cs-first.com/create>

Track 3: Advanced Coding Challenge

Leader: Chris Busch

App Lab

Description

App Lab is a programming environment where you can make simple apps. Design an app, code with blocks or JavaScript to make it work, then share your app in seconds.

Introduction

1. Watch the “[What’s App Lab](#)” and “[Introduction](#)” videos before starting exercises.
2. Next, sign-up for the free use of [App Lab](#) (<https://studio.code.org/p/applab>).
3. Use the “[How to build an app](#)” to guide you through a lab.
4. Please ask if you need any assistance. We are here to help.
5. This lesson could take many hours. Do as much as you can here, and then continue from home or school.

Links

- What’s App Lab - <https://www.youtube.com/watch?v=e1St8LB4VJA>
- Introduction - <https://www.youtube.com/watch?v=xlBRL5eOgkI>
- How to build an app - <https://www.youtube.com/watch?v=tDnoxkOSfQw>
- Start Coding - <https://code.org/educate/applab>

Dash

Description

Dash is a free introduction to the browser-based programming of HTML/CSS and JavaScript, which is what goes into making a website. Helps a more computer savvy student understand HTML/CSS and Javascript and can guide them step-by-step.

Introduction

1. Watch introduction video before starting exercises.
2. Next, sign-up for the free use of Dash.
3. Contains five projects with four or five labs in each. Walk through first module together.
4. Please ask if you need any assistance. We are here to help.
5. This lesson could take many hours. Do as much as you can here, and then continue from home or school.

Links

- <https://dash.generalassemb.ly/>

Other Resources

Intro to Blockly - <https://developers.google.com/blockly/>

Play around with Blockly - <https://www.madewithcode.com/projects/animation>

Computer science fundamentals - <https://studio.code.org>