

Workshop:

My first app: Apple Pie

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Agenda

What are we learning today?

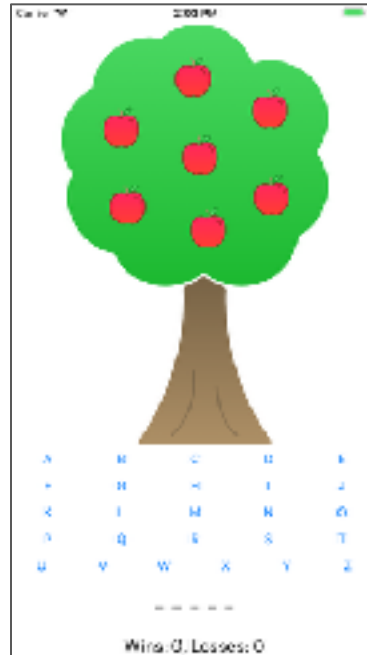
- Xcode: where things are and how to use it
- Auto Layout and Stack Views
- Swift Language:
 - Constants/Variables
 - Data Types
 - Conditional statements
 - Functions
 - Loops

Before we start

Make sure you have Xcode 9.x installed, and that you have downloaded the images from:

<https://github.com/ananogal/Workshop-Apple-Pie-I>

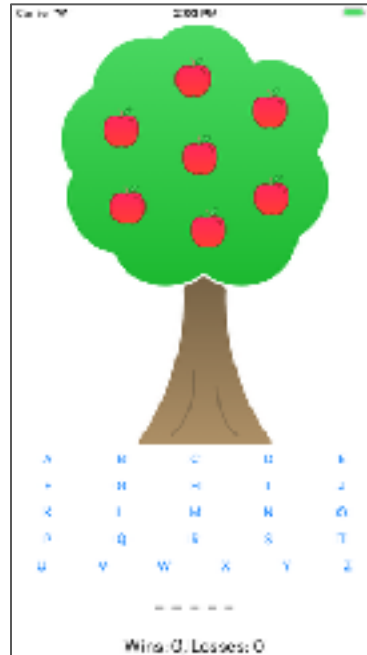
Apple Pie



Challenge

Create a TODO list of all the things you need to do to make this app work.

Apple Pie



Solution

- Have different words to guess
- Show the letters that the player did guess
- Show dashes for each letter not guessed
- Disable selected letter
- Make an apple fall for wrong letters
- Add 1 to wins when player guesses the word
- Add 1 to losses when there are no more apples
- Enable all letters when starting a new round

Demo Playground

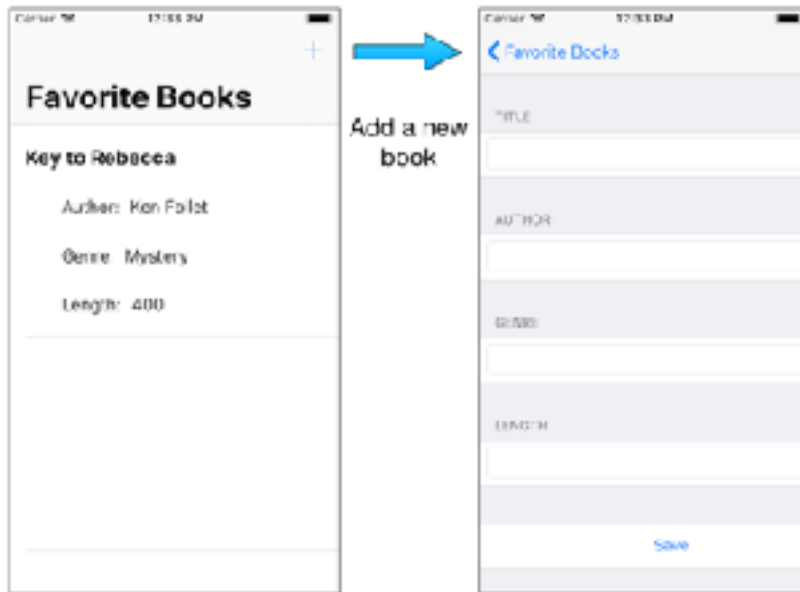
What have we learned so far?

- ***Swift Language:***
 - Variables and Constants
 - Data Types
 - Operators
 - Conditional Statements
 - Functions
 - Arrays

Demo Project

View Controllers

Manage a Screen or a portion of a Screen



View Controllers

Main.storyboard
(Design)



ViewController.swift
(Code)

```
@IBAction func showAlert() {  
  
}  

```

Add a button to the VC

- Go to Main.storyboard
- Drag and drop a button to the VC
- Center it in the VC
- Run the app

Different Sizes

- Different Devices -> Different screen sizes.
- Change the device
- Change the orientation
- What Happened?

Auto Layout

- Different sizes of screens
- Defines constraints or rules for all screens
- Stack Views
- Size Classes

Demo Auto Layout

Challenge 1

- Create three more Buttons “C”, “D” and “E”.
- All buttons should be 20 pixels from the top and 30 from the left.
- Add a different background-colour for each one.

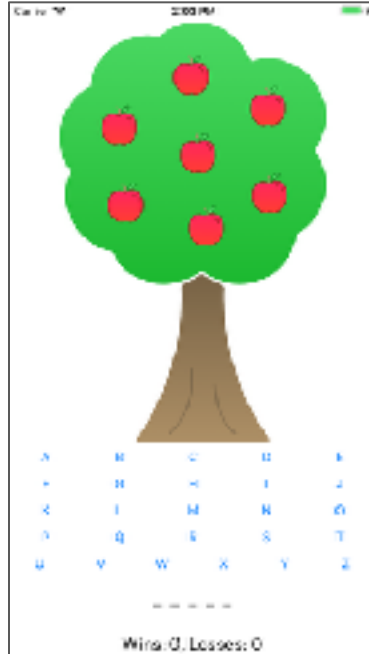
Stack Views

- Allows you to manage several constraints
- Vertical (Column)
- Horizontal (Row)

Demo Stack Views

- Go to Main.Storyboard
- Select all the buttons and embed them in a StackView
- Try out some of the properties of the StackView
- Add a top vertical StackView
- Add constraints to the top StackView

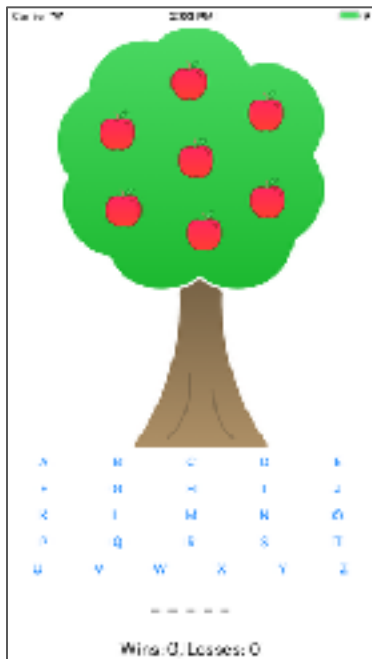
Challenge 2



Walkthrough add images

- In the Navigator panel go to the Project Navigator
- Select the Assets folder
- Go to the folder where you download the images
- Drag and Drop them after the AppIcon
- Go back to the Main.storyboard
- Add an UIImageView to the top StackView
- Set its image property to Tree 7
- Set “Content mode” to “Aspect Fit”.

Challenge 3



- Add two labels to the top Stack view
- Add a height constraint to the first label with the value 60
- Set the font size to 30 and centre the text
- Select the second label and add a height constraint of 30
- Set the font size to 20 and centre the text

What have we learned so far?

- ***Swift Language:***
 - Variables and Constants
 - Data Types
 - Operators
 - Conditional Statements
 - Functions
 - Arrays

What have we learned so far?

- ***ViewControllers:***
 - Controls a screen.
 - are made of 2 parts: the design and code.
- ***Auto Layout:***
 - Defines constraints or rules that can be applied to all screens.
- ***Stack Views:***
 - Manage the constraints of its children.

App Labs

- Unit 1
 - Units 1.1 to Unit 1.4
- Unit 2
 - Unit 2.1 to 2.7

Resources

[App Development with Swift](#)

[Apple Swift Book](#)

[Human Interface Guidelines iOS](#)