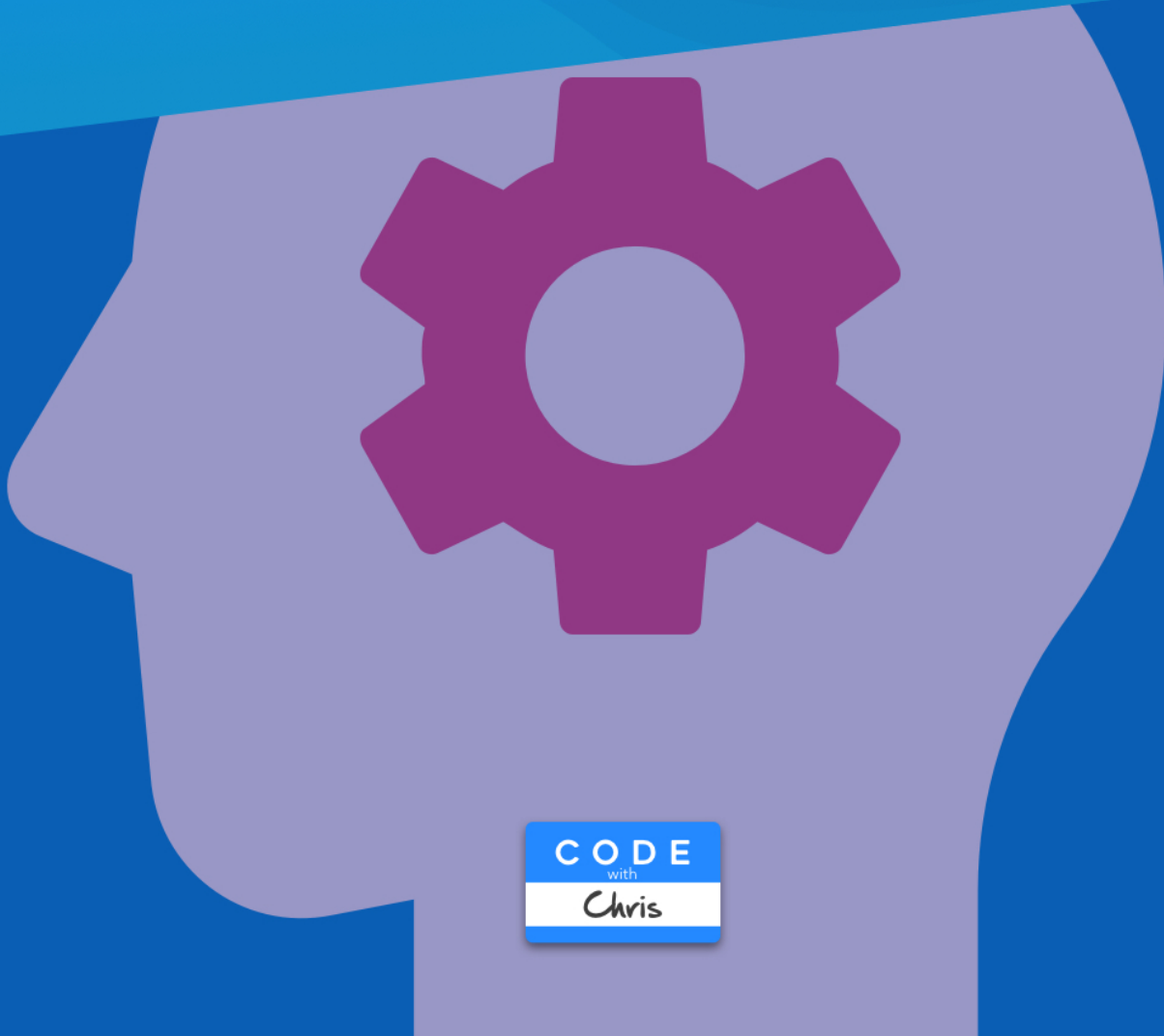


HOW TO MAKE AN APP FOR BEGINNERS

Lesson 10
Coding Logic

RECAP NOTES AND EXERCISES



Key Concepts

1. The If statement allows you to run some code code if a condition is true
2. Use the "if" keyword followed by the condition and then a pair of curly brackets. The code inside of the curly brackets will be executed if the condition is true

```
if x > 10 {  
    print "X is greater than 10"  
}
```

3. You can also specify fallback conditions if the first condition isn't true using the "else if" keyword.

```
if x > 10 {  
    print "X is greater than 10"  
}  
else if x < 5 {  
    print "X is greater than 5"  
}
```

4. Conditions will be tested from top to bottom. The first condition that is true will have its code block executed and none of conditions below it will be checked.
5. If all the conditions are false, then none of the code blocks will be executed.
6. You can use an "else" keyword at the end which serves as a "catch all" or "last resort" condition.

```
if x > 10 {  
    print "X is greater than 10"  
}  
else if x < 5 {  
    print "X is greater than 5"  
}  
else {  
    print "None of the conditions above are true"  
}
```

7. The code in the else branch will be executed when all of the conditions above it are false.

Exercises

In the following challenge, you'll get practice writing IF statements.

Setup

We'll be doing these exercises in a Swift Playground.

Open Xcode and create a new playground
(File Menu->New->Playground).

From the list of Playground templates, just select "Blank"

Challenge:

Write a function called "vowelDetector" that:

- Accepts a String parameter
- Returns a Bool value

- When you call this function and pass a string into it, it should return “true” if a vowel exists in the string. If there are no vowels in the string, then it should return “false”
- Hint: If you want a hint, scroll all the way to the bottom of this document.

Sample Input and Output:

- Input: “sync” -> Output: false
- Input: “hello” -> Output: true

Solution

Check the resource page for the solution playground:
<https://codewithchris.com/beginner-youtube/>

Hint for the challenge: The String class has a method called “contains”.