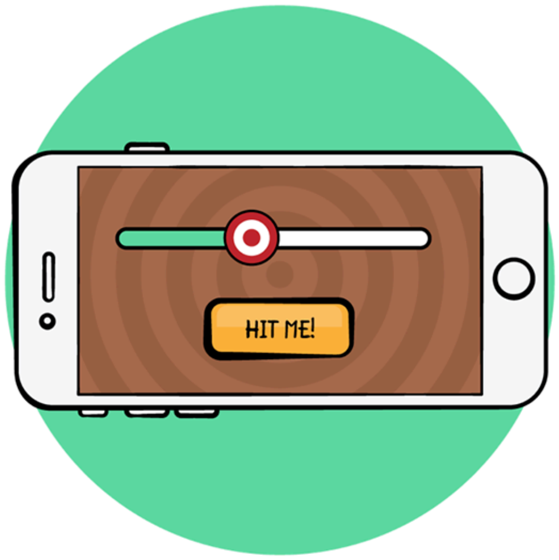
BEGINNING iOS 10

PART 1

GETTING STARTED



HANDS-ON CHALLENGES

Beginning iOS 10 Part 1: Getting Started

Brian Moakley

Challenge #5: Accessing Controls

By Brian Moakley

In this challenge, you'll be creating a tip calculator. The tip calculator has already been created for you. Only, instead of printing the result to the console, you will have to print to the actual screen. None of the outlets have been set up so it's up to you to create all the actions and the outlets.

Getting Started

There's a few things that need to be added. First, when working with text fields, they won't automatically dismiss when the uers hits the return key. You have to add that behavior, otherwise, the players will not be able to escape them.

Open the Xcode starter project and in **ViewController**, add the following code underneath the `ViewController` class:

```
extension ViewController: UITextFieldDelegate {
  func textFieldShouldReturn(_ textField: UITextField) -> Bool {
    textField.resignFirstResponder()
    return true
  }
}
```

This bit of code implements the method to return the keyboard. To do this, the text field must resign its first responder status. A first responder means that the control is receiving all the input. By resigning its status as a first responder, other controls can receive events. This also causes the keyboard to dismiss itself.

That's only part of the solution. Your text fields must become delegates. This means, they must listen to events of the control. Once you name your text fields, you need to set the delegate like so:

```
amount.delegate = self
```

The text field will now respond to the event.

The rest now is up to you! Add some outlets to the text view and the labels. To get information from a text field, you use the `text` property. If you have a text field called amount, you'd access the value like so:

```
let total = amount.text
```

This returns a string so you will have to cast the value. Here's the formula to calculate the tip:

```
amount * percentage / 100
```

Good luck!