Gesturizer

Lesson 7

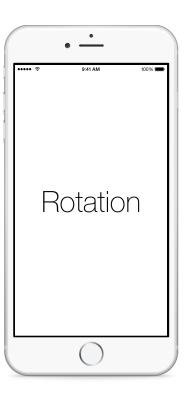


Description

Add a Rotation Gesture Recognizer to the app, and update the label when the rotation completes.

Learning Outcomes

- Apply a Rotation Gesture Recognizer to detect a rotation gesture with multiple touches.
- Apply the state property of a gesture recognizer to properly update an interface.
- Practice simulating a two-finger rotation gesture with the iOS Simulator.
- · Describe and define enumerations.



Vocabulary

rotation gesture	Rotation Gesture Recognizer	UIGestureRecognizer
enumeration	UIGestureRecognizerState	

Materials

Gesturizer Lesson 7 Xcode project

Opening

How might we detect a rotation gesture?

Agenda

- Using the Assistant Editor (\\\\\\\\\\\\\\)), Control-drag a connection from the Rotation Gesture Recognizer to a new controller action called rotation:.

```
@IBAction func rotation(sender: UIRotationGestureRecognizer) {
   if sender.state == .Ended {
      showGestureName("Rotation")
   }
}
```

- Using the Interface Builder Document Outline (\square), Control-drag from the View to the Rotation Gesture Recognizer, and add the Rotation Gesture Recognizer to the View's gestureRecognizers outlet collection.
- Run the app (***R**), hold down the \(\tau\) key to simulate two fingers, click and drag the mouse to simulate a rotation, and observe the **Rotation** text appear.

Closing

What are the differences between a pinch gesture and a rotation gesture? How does the documentation describe each of these gestures?

Modifications and Extensions

- Investigate the rotation and velocity properties of the UIRotationGestureRecognizer, and display their values on the screen.
- Rotate the label according to how the user imparts the rotation gesture.

Resources

Event Handling Guide for iOS https://developer.apple.com/library/ios/documentation/ EventHandling/Conceptual/EventHandlingiPhoneOS/Introduction/Introduction.html

Creating an Action Connection https://developer.apple.com/library/ios/recipes/xcode_help-IB_connections/chapters/CreatingAction.html

Cocoa Core Competencies: Target-Action http://developer.apple.com/library/ios/documentation/General/Conceptual/Devpedia-CocoaApp/TargetAction.html

UIGestureRecognizer Class Reference https://developer.apple.com/library/ios/documentation/UIKit/Reference/UIGestureRecognizer_Class/index.html

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JIPinchGestureRecognizer Class Reference https://developer.apple.com/library/iosdocumentation/UIKit/Reference/UIPinchGestureRecognizer_Class/index.html		