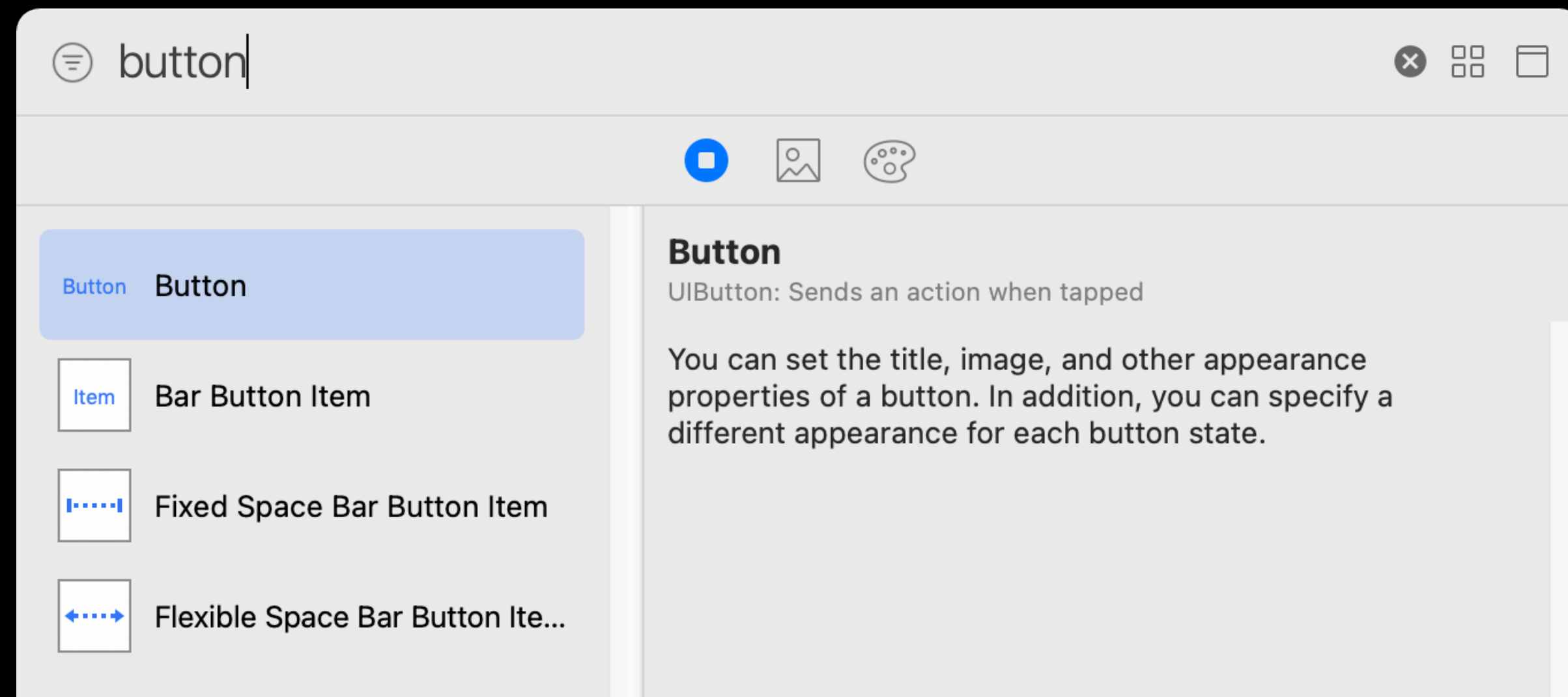


Unit 2—Lesson 9: Controls in Action

Controls

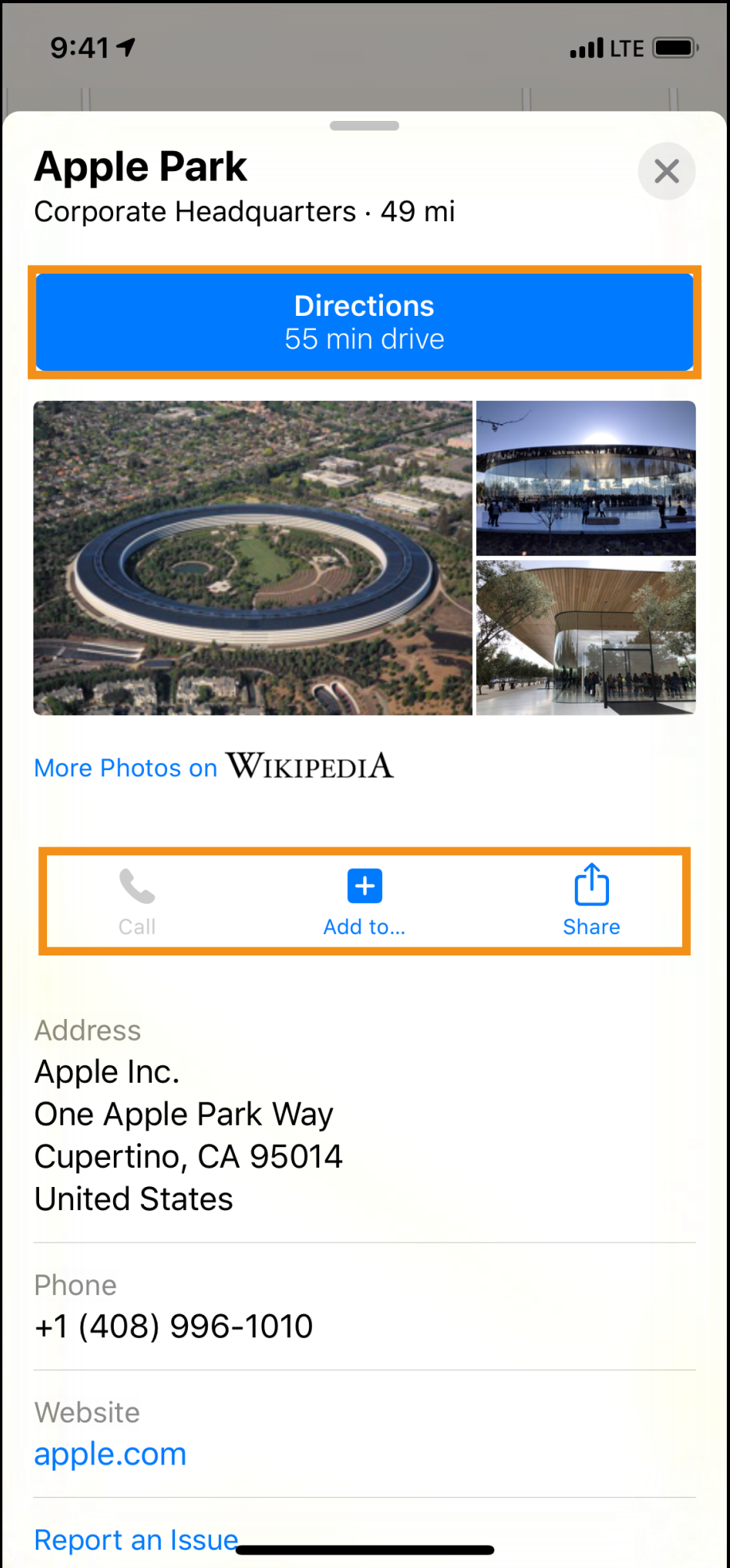
- Buttons
- Switches
- Sliders
- Text fields

Buttons (UIButton)



```
@IBAction func buttonTapped(_ sender: Any)
    // Code to respond to button
}
```

Buttons (UIButton)



Button

Type

System

State Config

Default

Title

Plain

Button

+

Font

System 15.0

Text Color

Default

Shadow Color

Default

Image

Default Image

Background

Default Background Im...

Default Symbol Configuration

Configuration

Unspecified

Scale

Unspecified

Weight

Unspecified

Pointer

☐ Interaction Enabled

Accessibility

☐ Adjusts Image Size

Shadow Offset

0

0

Width

Height

☐ Reverses On Highlight

Drawing

☐ Shows Touch On Highlight

☒ Highlighted Adjusts Image

☒ Disabled Adjusts Image

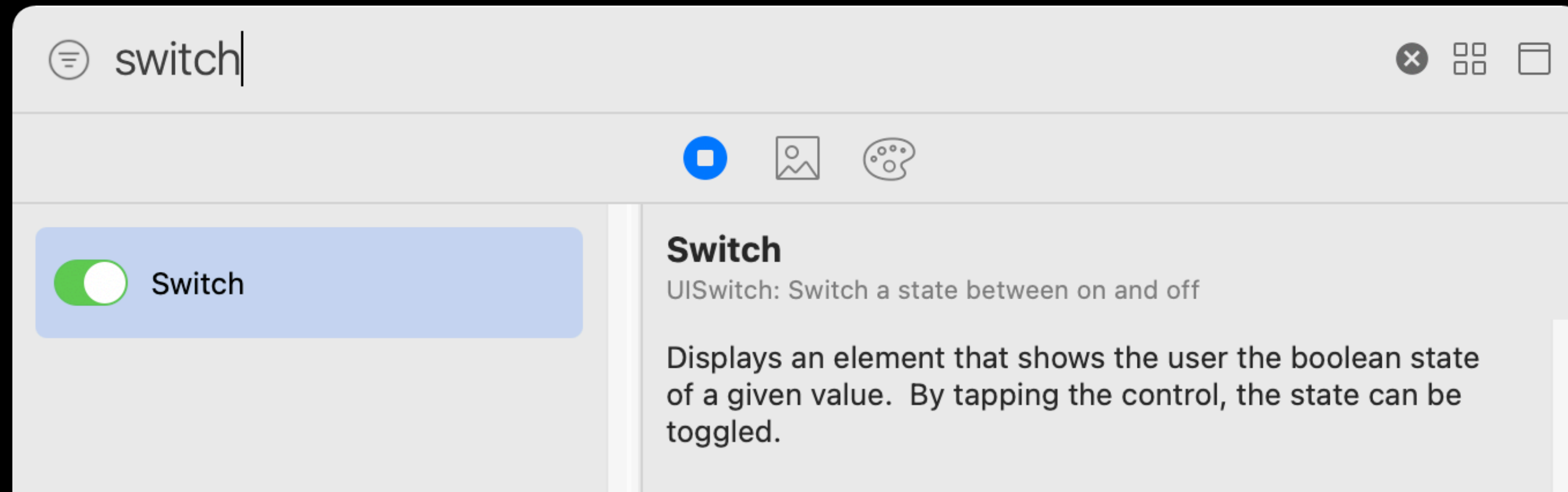
Line Break

Truncate Middle

Drag and Drop

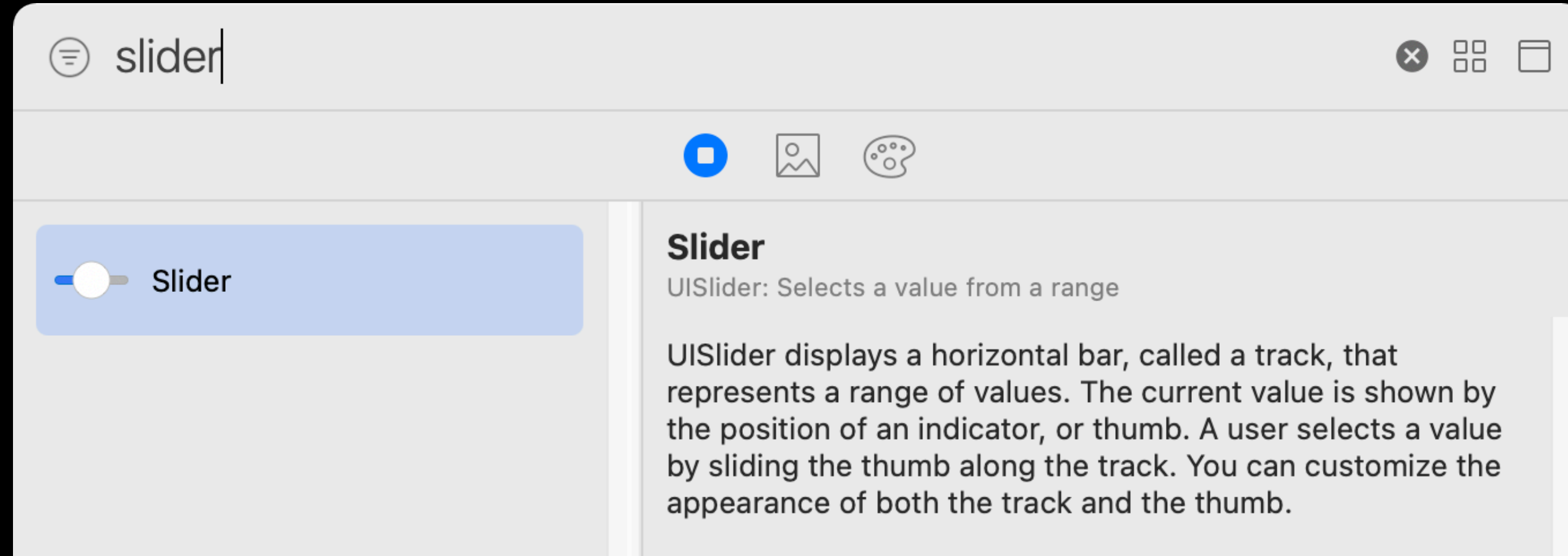
☐ Spring Loaded

Switches (UISwitch)



```
@IBAction func switchToggled(_ sender: UISwitch) {  
    if sender.isOn {  
        print("The switch is on!")  
    } else {  
        print("The switch is off.")  
    }  
}
```

Sliders (UISlider)

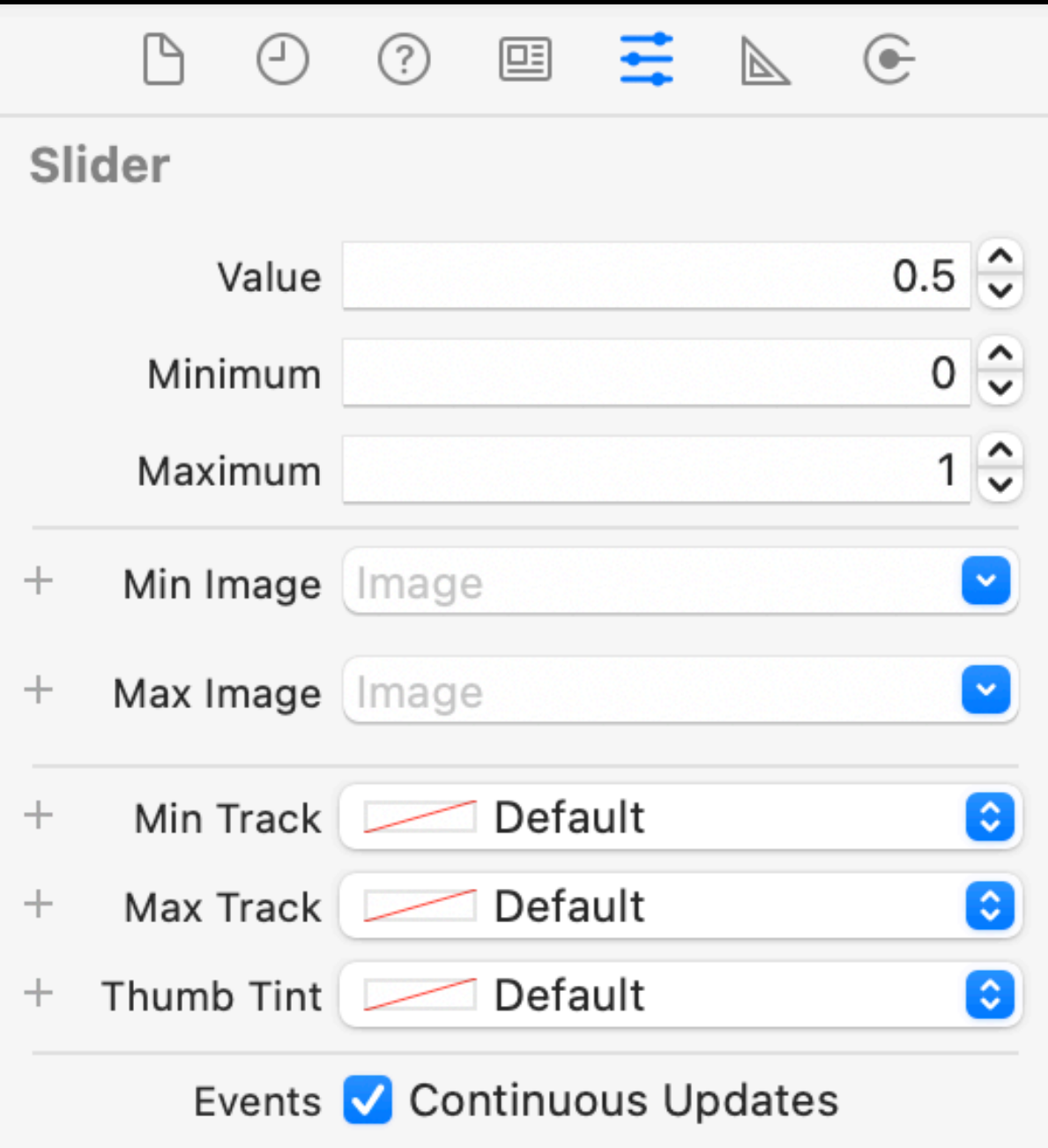


```
@IBAction func sliderValueChanged(_ sender: UISlider) {  
    print(sender.value)  
}
```

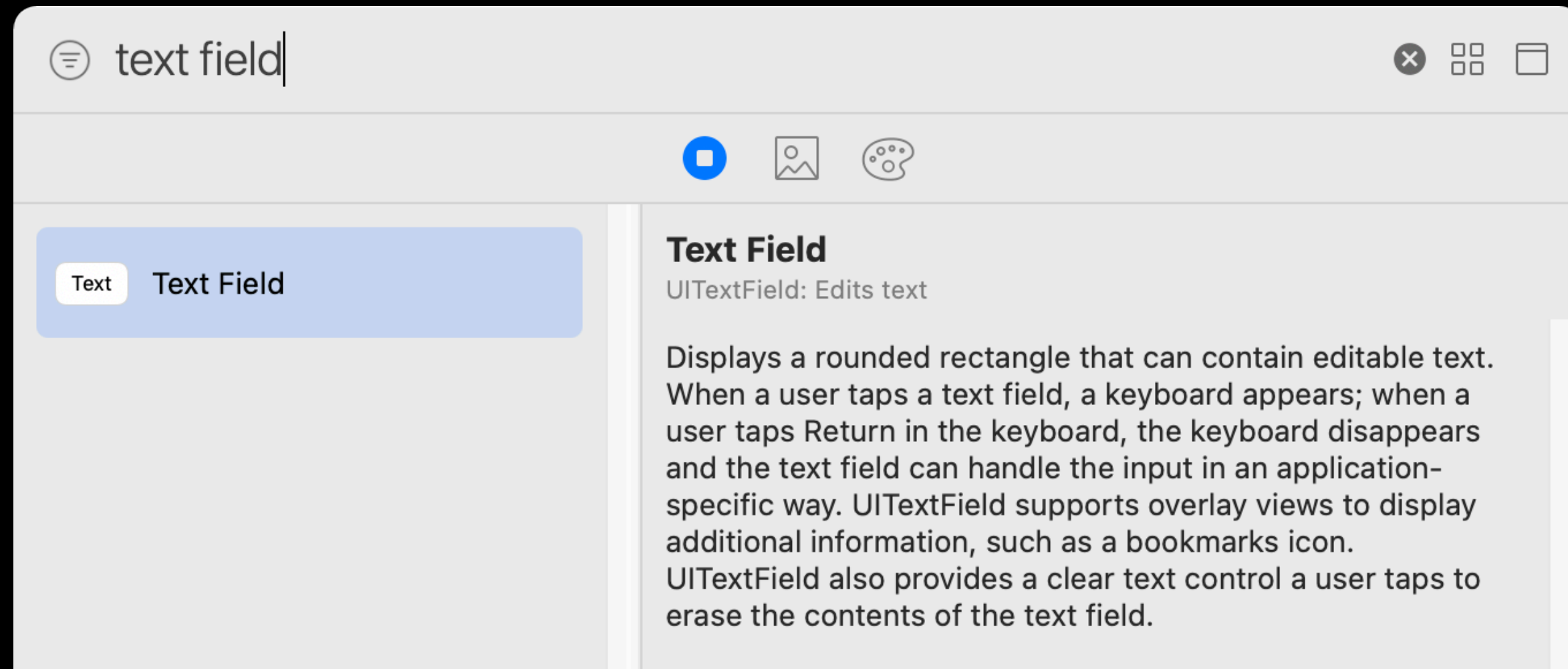
Sliders (UISlider)

Configuration

Property	Description
Value	Starting value the slider will represent
Minimum	Lowest number value the slider may represent
Maximum	Highest number value the slider will represent
Min Image	Optional image on the minimum end of the slider
Max Image	Optional image on the maximum end of the slider



Text fields (UITextField)



```
@IBAction func keyboardReturnKeyTapped(_ sender: UITextField) {  
    if let text = sender.text {  
        print(text)  
    }  
}
```


Text fields (UITextField)

Property	Description
Text	Text displayed by the text field
Placeholder	Text displayed when the text field is empty
Capitalization	How the keyboard deals with capitalization
Correction	Enables or disables autocorrect
Keyboard	Which keyboard is displayed—for example, email, web, or default
Return Key	Text on the return key
Secure	Specific text fields that don't display their contents, commonly used for passwords

Text Field

TextPlain

Text

+ColorDefault (Label Co...

+FontSystem 14.0

Dynamic Type☐ Automatically Adjusts Font

Alignment

PlaceholderPlaceholder Text

+BackgroundBackground Image

+DisabledDisabled Background I...

Border Style

Clear ButtonNever appears

☐ Clear when editing begins

Min Font Size17

☒ Adjust to Fit

Text Input Traits

Content TypeUnspecified

CapitalizationNone

CorrectionDefault

Smart DashesDefault

Smart InsertDefault

Smart QuotesDefault

Spell CheckingDefault

Keyboard TypeDefault

Keyboard LookDefault

Return KeyDefault

☐ Auto-enable Return Key

☐ Secure Text Entry

Actions and outlets

```
@IBOutlet var toggle: UISwitch!
@IBOutlet var slider: UISlider!

@IBAction func buttonTapped(_ sender: UIButton) {
    if toggle.isOn {
        . . .
    }

    print(slider.value)
}
```

Unit 2—Lesson 9

Controls in Action



Use Interface Builder to add buttons, switches, and sliders to a scene

Create actions and outlets, write some basic code, and gain an understanding of how these tools work together

Unit 2—Lesson 9

Lab: Basic Interactions



Create and compile an app with two buttons that, when tapped, change the contents of a label