

# Temperature Converter App

## iOS Development

*Goal:* Write a temperature converter app that converts from Celsius to Fahrenheit.

*Use case:* the user enters a temperature in Celsius in the *Celsius Text Field* and initiates the conversion to Fahrenheit by tapping the *Convert Button*. The converted temperature is displayed in the *Fahrenheit Value Label*.

### Programming Requirements

Language: Swift

UI: Created in Interface Builder

### UI Elements

#### Title Label

- Purpose: displays string “Temperature Converter” at top of app.
- Type: UILabel
- Font: System 17.0
- Position/Size: X=118, Y=28, Width: 270, Height: 36

#### Fahrenheit Value Label

- Purpose: display converted temperature in Fahrenheit.
- Type: UILabel
- Font: System 45.0
- Position/Size: X=51, Y=114, Width: 167, Height: 59
- Content alignment: right aligned.

#### °F Label

- Purpose: provide units label to go with Fahrenheit value.
- Type: UILabel
- Font: System 45.0
- Position/Size: X=226, Y=128, Width: 54, Height: 32

#### Celsius Input Text Field

- Purpose: input numerical value of temperature in Celsius.
- Type: UITextField
- Font: System 24.0
- Position/Size: X=118, Y=228, Width: 98, Height: 30
- Content alignment: right aligned.
- Keyboard: The keyboard that appears when entering a value is to be a Decimal Pad.

#### °C Label

- Purpose: provide units label to go with Celsius value.
- Type: UILabel
- Font: System 24.0
- Position/Size: X=224, Y=232, Width: 27, Height: 20

#### Convert Button

- Purpose: to initiate conversion.
- Type: UIButton
- Font: Helvetica Neue 21.0
- Position/Size: X=147, Y=340, Width: 88, Height: 30

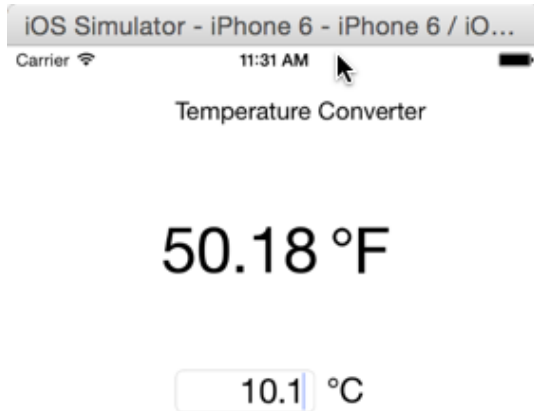
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## Formula

Celsius to Fahrenheit

$$F = C * 1.8 + 32$$

## App User Interface



## Submission Requirements

Create a zip file of your Xcode project and email it to Shawn Moore at [shawn.moore@mail.missouri.edu](mailto:shawn.moore@mail.missouri.edu) and Dale Musser at [musserda@missouri.edu](mailto:musserda@missouri.edu)

The subject line of the email must be: IT 4500 Temp Converter: <Your Name>  
Where <Your Name> is replaced with your name. Example:  
"IT 4500 Temp Converter: Sally Smith"

Due date: 11:59PM on Monday, October 27<sup>th</sup>.