

Text Input and Delegation-03

In this assignment you will continue to work on your temperature app called WorldTrotter. The outcome of this lab is to setup a text field where users can type in a Fahrenheit value in a UITextField and your app will convert it to, and show, the Celsius equivalent.

1. Open your WorldTrotter app (note: ensure you committed and submitted the commit ID for lab 3 before moving onto this lab).
2. Delete your Fahrenheit label (the top label) and replace it with a UITextField.
3. Customize some of the text field properties for your UITextField. Open the attributes inspector for the text field and make the following changes:
 - a) Set the text color (from the Color menu) to orange.
 - b) Set the font size to System 70.
 - c) Set the Alignment to centered.
 - d) Set the placeholder text to be value. This is the text that will be displayed when the user has not entered any text.
 - e) Set the Border Style to be none, which is the first element of the segmented control with the dotted lines.
4. Change the UITextField keyboard to show the decimal keyboard when a user presses on the field.
5. Create an outlet to your Celsius label and add a Field Editing Did Change action on your UITextField that will update the Celsius label with the text the user types into the UITextField.
6. Add a UITapGestureRecognizer that will dismiss the keyboard when the user presses on the screen.
7. Write code that will convert a Fahrenheit value to a Celsius value.
8. Create a number formatter so your number shows with only 1 decimal place.
9. Implement the delegate `shouldChangeCharactersIn` which you can find in the `UITextFieldDelegate` protocol. In your implementation, you should check that the user has not entered more than one decimal place, if they have do not allow it to be shown in the UITextField.
10. Run your app on the simulator and test that your app works.