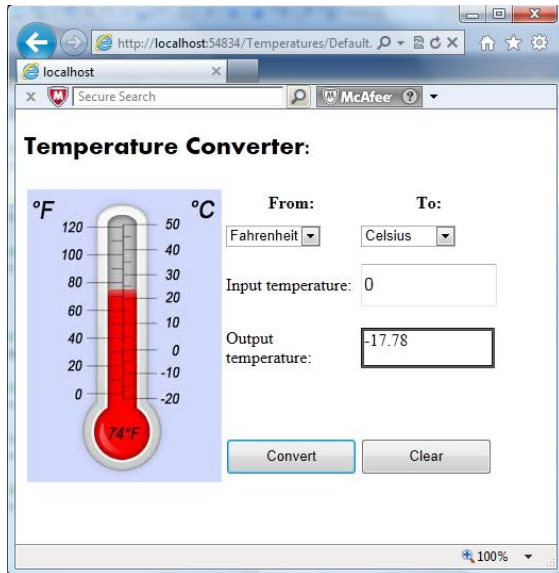


CPRG 214 – Lab 1

20 points

Create a webpage that performs temperature conversions between three systems: Celsius, Fahrenheit and Kelvin.



Here is what this page could look like. You may follow my design or create your own, as long as it satisfies the following requirements:

- User should be able to select one of three systems for the “From” temperature and “To” temperature (drop down list, radio buttons etc.) Make sure to allow converting from a temperature system to the same system (the output value will be the same as input).
- Default conversion is from Celsius to Fahrenheit (that’s what is selected as the page is loaded the first time).
- User enters input temperature in the text box. The text box should be validated to ensure that: 1) user enters a value, and 2) the value entered is a number between -1000 and 1000, regardless of the conversion type. Appropriate error messages should display in red or other bright colour.
- Conversion result is displayed in a label, and is rounded to 2 decimal positions.
- Clear button erases contents of the text box and label and resets the conversion selection to the default one.
- There is at least one image on the page.
- All styles are in an external style sheet and style selectors have meaningful names (no auto-style). You may use Bootstrap if you wish.

Conversion formulas are readily available on the Internet.

Submit

Zip the project folder and submit to the appropriate Dropbox folder. Make sure to name the file with your name and lab number, for example *YourName_Lab1.zip*.

Marking Scheme

Marking criterion	Out Of
User can select the "To" and "From" temperature system (3 choices each)	3
Celsius to Fahrenheit conversion is default	1
Input is validated for presence and range -1000 to 1000, regardless of temperature system. Error messages are displayed in bright colour.	3
Conversion calculation is accurate	5
Result is displayed in a label with 2 decimal digits	1
Clear button resets the controls	1
There is at least one image on the page	1
All styles are in an external style sheet (you may use Bootstrap)	3
Code is written in good style and has comments	2
Total:	20