



□ Functions also clean up your code by placing them all in one area to leave the rest of the HTML/script clean.

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987

A Simple Scenario

- We use email every day to send mail to friends in the state, across the country or around the world.
- You receive mail from your friend in Australia telling you it's 30°
- The temperature is Celsius, but you want Fahrenheit
- You could do a quick calculation, but since you write to this person a lot, it would be better to just write a little function to do the calculation every time.

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₽ You've already s	een Functions!
 Event Handlers are declarations 	like pre-built function
The event handling Friday was a type of	routine that we filled with code on function
□ They just wait for pre executed	ogrammers to add instructions to be
□ Instead of being call time a user activates	ed in the code, they are called every s that particular event
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Calling A Function

- The function declaration specifies how the function works and only needs to be given once
- The function call says when, where and with what values the function will be performed (executed)
 - $\hfill\square$ A function call can be used anywhere that the task to be performed is needed.

onClick="ConvertC2F (document.stinky.number.value)"





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Variables: Global vs. Local

- Variables are used all over in programs
- Most variables declared can be referenced anywhere in the program
 - □ There values can be changed from anywhere
 - □ They are global
- However, variables given as formal parameters or declared inside a function, are local
 - □ They only exist inside the function and can't be changed or referenced from elsewhere in the program
 - □ This means you can reuse variable names created in functions without name conflicts.
 - □ Just make sure you have no global variables with the same name © Cepyred 2022/2000, University of Washing



Parameter Correspondence

- The arguments name the input values and the function then can output results
- The number of formal parameters in the declaration must match the number of arguments in the call, and they correspond one-to-one

onClick = "answertextbox = ConvertC2F (document.stinky.number.value)"

function ConvertC2F (c) {
 var f;
 f = (9 * c) / 5 + 32;
 return f;
 }

What Happens...

- A function call "makes it happen"...
- Substitution Rule: The function call operates as if the function definition replaces the call and the arguments replace the parameters function ConvertC2F (c) {

Code of the Program

var f; f = (9 * c) / 5 + 32; return f; }

onClick ="answertextbox = ConvertC2F (document.stinky.number.value)"

Is the same as:

onClick = "answertextbox = 9*(document.stinky.number.vaue) / 5 +32"





the call

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