



SY110

Programs – Conditionals

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Fall AY 2018



- 1 Review
- 2 HTML & JavaScript
- 3 Conditional Statements
 - Boolean operators
 - Examples



What we talked about last time

- Reviewed variable types
- Reviewed built-in functions
- Defining variables
- Forcing explicit type conversion
 - ▶ e.g. String → Number
- Get user input
- Displaying output to the screen
- Anything else?



So long interpreter...

- Almost always, JavaScript is run in a browser.
 - ▶ Specifically, the code resides inside of a webpage, or HTML (HyperText Markup Language) document
 - ▶ More on webpages later...
- Today we'll run our JavaScript programs in a simple HTML file, and open them in our browser
- While simple, this is how many webpages work on the WWW



Non-programming example

- 1 If it rains this afternoon
- 2 [insert your outdoor sport here] will be cancelled
- 3 Otherwise, you'll go to practice
- 4 Evening meal formation happens at 1800

JavaScript example

```
if (x > y){  
  var z = x - y;  
}  
else{  
  var z = y - x;  
}  
var w = z + 50;
```

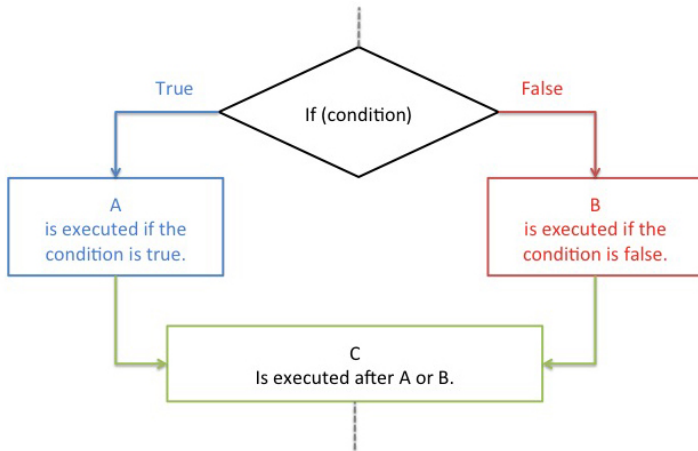


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Common operators

- ==
 - ▶ What does = mean again?
- < and >
- <= and >=
- !=
- !

Combining comparisons

We can combine Boolean expressions with:

- ||
- &&



Let's do some examples



Questions?