

JavaScript: Conditionals & Logical Operators

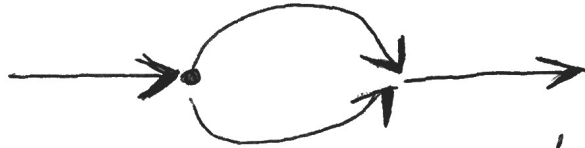
The
Complete
Web
Developer in
2018

The Complete Web Developer in 2018
Zero to Mastery
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Lecture Notes by Stephanie

CONTROL FLOW



execute code in straight line



conditional execution

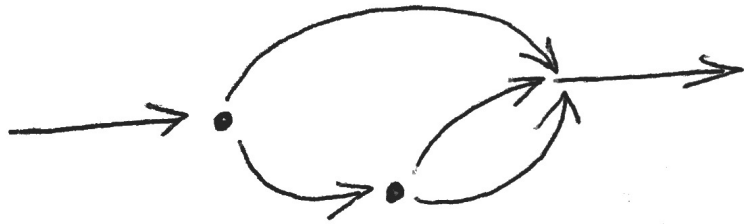
JAVASCRIPT CONDITIONALS

aka "conditional statements"

- if
- else
- else if
- ternary operator
- switch

expressions
return
values

note: an if statement is not an expression,
so it does NOT require a semicolon



conditional execution can be complex

```
ex: if ( ) {  
    ~~~~~;  
} else if ( ) {  
    ~~~~~;  
} else {  
    ~~~~~;  
}
```

if - else statement

```
> if (name === "Billy") {  
    alert("hi Billy!");  
} else {  
    alert("hmmm I dont know you");  
}
```

Note: these are conditional statements, do NOT need semicolon

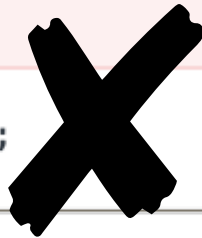
else if statement

```
> if (name === "Billy") {  
    alert("hi Billy!");  
} else if (name === "Susy") {  
    alert("hi Susy!");  
} else {  
    alert("I dont know you");  
}
```

Note: if you use = instead of ===, you will create a new variable instead of checking the condition!!! Be very careful!!!



```
> firstName5  
✖ ▶ Uncaught ReferenceError: firstName5 is VM1709:1  
   not defined  
   at <anonymous>:1:1  
> if (firstName5="Bob") {  
    alert("what up bob");  
}  
< undefined  
> firstName5  
< "Bob"
```



An embedded page at www.google.com says
what up bob



OK

Javascript Logical Operators

&& and

|| or

! not

AND operator: &&

```
> if (firstName === "Bob" && lastName === "Smith") {  
    alert("Hi Bob Smith");  
}
```

OR operator: ||

```
> if (name === "Billy" || name === "Ann") {  
    alert("Hi Billy or Ann!");  
}
```

NOT operator: !

```
> !false  
< true  
> !true  
< false
```

```
> name = "Barry"  
< "Barry"  
> if (!(name === "Malia")) {  
    "You're not Malia";  
}  
< "You're not Malia"
```

```
// Exercise 4
// Make a keyless car!
// This car will only let you drive if you are over 18. Make it do the
following:
```

```
//using prompt() and alert(), ask a user for their age.
// IF they say they are below 18, respond with:
// "Sorry, you are too young to drive this car. Powering off"

// IF they say they are 18, respond with:
// "Congratulations on your first year of driving. Enjoy the ride!"

// IF they say they are over 18, respond with:
// "Powering On. Enjoy the ride!"
```

My solution:

```
> var age = Number(prompt("How old are you
    bro?"));
    if (age < 18) {
        alert("Sorry, too young kiddo");
    } else if (age === 18) {
        alert("Congrats, 18!!");
    } else {
        alert("you old");           // age > 18
    }
}
```