

3/30/2020
INFO
I OWE YOU!!

- *Project-*
 - *Part 1 released with lab last week*
 - *Part 2 will be released this week with lab*
 - *deadline for entire project is last day lab.*
 - *April 23rd or 24th. More info to come.*
- *Homework 6*
 - *Solutions uploaded to assignment on blackboard*
- *Quiz 5*
 - *sign on and see your scores and answers*
- *Additional videos for this week's lab*

JAVASCRIPT PROGRAMMING PART 3

- *Multiple Statements*
- *Comparisons*
- *Conditional Statements*
- *Loops*



MULTIPLE STATEMENTS

A function with multiple statements:

represents a block of instructions that have some relationship to each other, the calling event, or a point in time building up to a series of events.

MULTIPLE STATEMENTS

Example:

Click on an image:

- 1. Change the image*
- 2. Change its caption*
- 2. Change the background color to blue*
- 3. Change the font color to green*

The blocks of instructions execute one after another. The user sees this as an instantaneous action.

MULTIPLE STATEMENTS WITH CONDITIONS

Example:

Click on an image:

If the image is a dog

Change :

- 1.the image to a cat*
- 2. its caption to “The cat scared the dog away!”*

OR

If the image is a cat

Change:

- 1. the image to a mouse*
- 2.its caption to “The mouse got the cat!”*

Either way:

Change:

- 1.the background color to blue*
- 2.the font color to green*

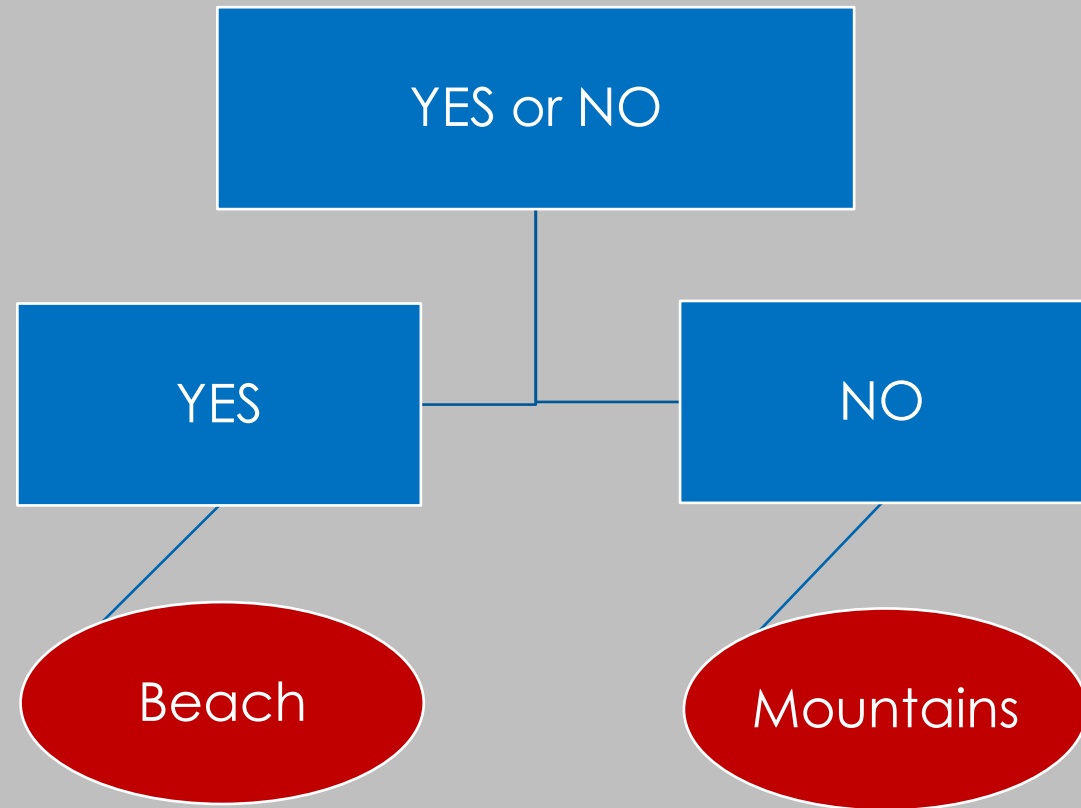
Not all statements execute



Comparisons are used, in programming, for making decisions.

CONDITIONS

*yes or no
true or false
on or off*



CONDITIONS

Evaluate the condition
and return:

true or false

COMPARISON OPERATORS

==	equal to
!=	not equal to
>	Greater than
<	less than
>=	greater than or equal to
<=	less than or equal to

LOGICAL OPERATORS

Evaluate two conditional
statements

&& Logical AND

|| Logical OR

! Reverse Logic

IF STATEMENT 2 CHOICES

```
if (condition logic){
```

A

TRUE → DO A

```
}
```

```
else {
```

B

FALSE → DO B

```
}
```

Example:

```
if (x > 15){
```

```
    document.getElementById('bob').innerHTML="Late";
```

```
}
```

```
else{
```

```
    document.getElementById('bob').innerHTML="Let's go"
```

```
}
```



IF STATEMENT 3 OR MORE CHOICES

```
if (conditional logic){  
    DO A  
}  
else if (conditional logic){ DO B  
}  
else{ DO C  
}
```

IF STATEMENT WITH 2 CONDITIONS WITH AND

```
if (conditional logic) && (conditional logic){  
    TRUE TRUE  
    ACTIONS  
}
```

```
If (grade > 79) && (grade <90){  
    document.getElementById('letter').innerHTML='B';  
}
```

LOGICAL TRUTH TABLES

CONDITION A	CONDITION B	&& AND	OR
TRUE ✓	TRUE ✓	TRUE	TRUE
TRUE	FALSE	FALSE	<u>TRUE</u>
FALSE	TRUE	<u>FALSE</u>	<u>TRUE</u>
FALSE ✓	FALSE ✓	FALSE	FALSE

