

# What Are Control Structures?

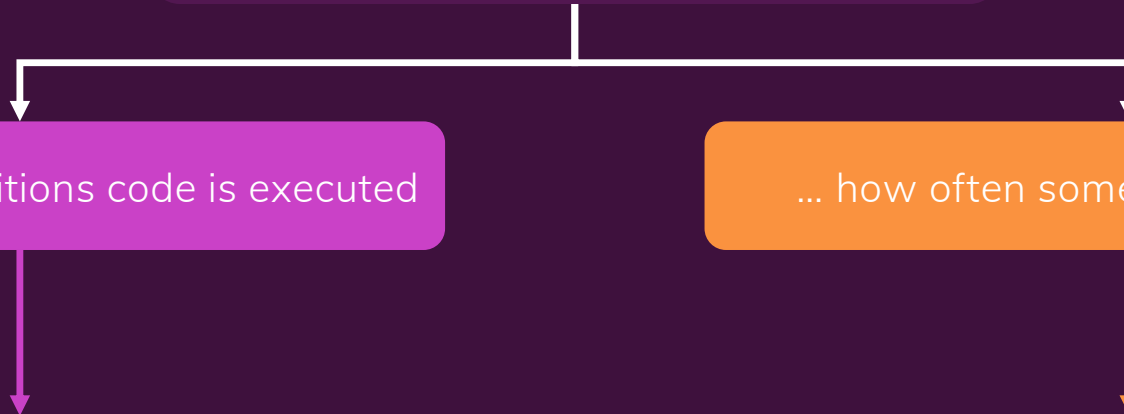
Special JavaScript Syntax / Features that  
allow you to control ...

... under which conditions code is executed

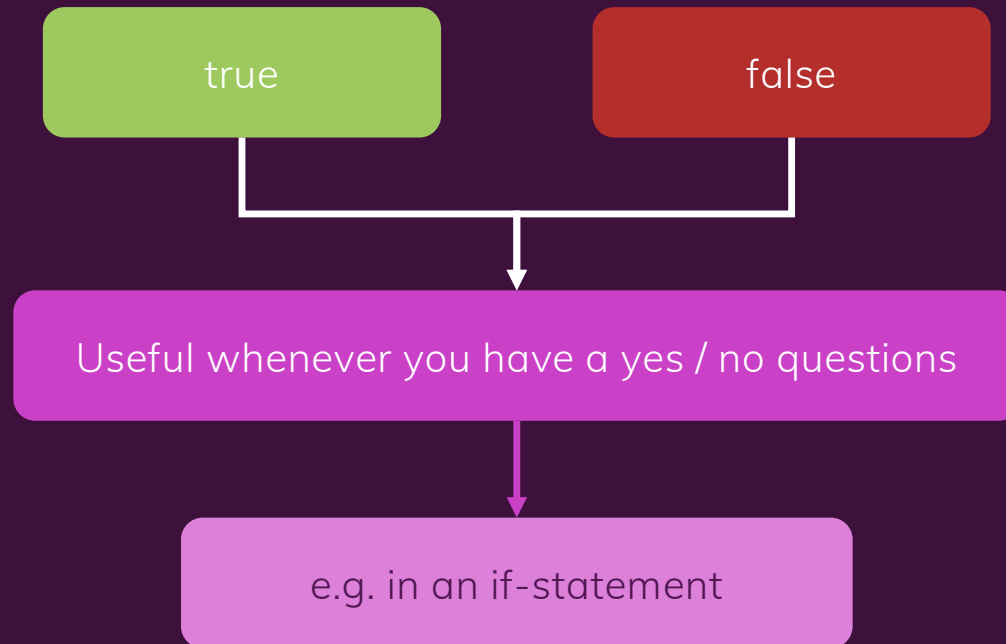
if-Statements

... how often some code is executed

Loops



## Understanding Boolean Values ("Booleans")



# Comparison Operators & Logical Operators

## Comparison Operators *(derive boolean values)*

==, ===

Equality  
(value and/ or  
type)

```
2 == 2 // true
'2' === 2 // false
3 === 3 // true
3 === 5 // false
'h' == 's' // false
```

>, <, >=, <=

Greater than,  
lesser than,  
greater or  
equal, lesser or  
equal

```
5 > 3 // true
5 < 3 // false
'a' < 'b' // true
'c' < 'b' // false
4 <= 4 // true
```

!, !=, !==

Negation /  
inverse  
(i.e. some-thing  
is NOT true)

```
!(4 < 4) // true
5 !== 2 // true
8 != 8 // false
'4' !== 4 // true
'4' != 4 // false
```

&&

AND

Yields true if  
both combined  
values are true

```
// yields true
5 == 5 && 3 < 4

// yields false
5 == 5 && 6 < 4
```

||

OR

Yields true if  
one of both  
values is true

```
// yields true
5 == 5 || 3 < 4

// yields true
5 == 5 || 6 < 4
```

# Loops

Arrays

Objects

for

for ... of

for ... in

while

Loop *n* number of  
times

Loop through all  
elements **of an**  
**array**

Loop through all  
properties in an  
object

Loop as long as a  
certain condition is  
met

You'll use this one a  
lot!

You'll use this one a  
lot!