



Variables, Types, Conditionals, Functions

Variables

Store data using a name

Use it repeatedly

It's how we remember things



const and let (and var)

3 ways to declare a variable

We'll use 2: const and let

We cannot reassign a variable declared using const

We CAN reassign a variable declared using let



Declaring a variable

Go to the editor!



Declaring a variable

Questions on variables

Types

4 primitive types

string: words

number: numbers

boolean: ONLY true or false

undefined: no value

Types - Which type?

1. "hello"
2. true
3. 'hello'
4. false
5. `hello`
6. undefined
7. 13
8. "goodbye"
9. 13.5

Types - Which type?

Go to the editor!

Types

Questions on types

Conditionals and Comparisons

A comparison is used to compare multiple values.

Are these values equal? Are they different? Is one bigger than the other?

A conditional is used to only run some code if a condition is met. That condition is usually a comparison.

If these values are equal, do something with the values. If they are different, don't do anything.

Comparisons

1. `1 === 1`
2. `"Hello" === "hello"`
3. `1 == "1"`
4. `true !== false`
5. `555 !== "goodbye"`

Numerical Comparisons

$1 > 5$

$5 \geq 5$

$5 < 10$

$5 === 10 / 2$



Conditionals

if a comparison is true
do something

```
if (number === 5) {  
    number = number * 2  
}
```

```
if (name === "Sam") {  
    teaching = true  
}
```



Conditionals

Go to the editor!



Conditionals and Comparisons

Questions on conditionals and comparisons

Functions

Blocks of code that we can repeatedly run from elsewhere in our code.

```
function makeTea () {  
    boilKettle()  
    getMug()  
    placeTeabagInMug()  
    pourWater()  
    removeBag()  
    pourMilk()  
}
```



Function Parameters

We can pass values to the function for it to use inside the block of code.

```
function greetPerson (name) {  
    `Hello, ${name}!`  
}
```

```
greetPerson("Sam")
```

Function Return Value

Just like we can pass values, a function can give us back a value, using the return keyword.

```
function greetPerson (name) {  
  return `Hello, ${name}!`  
}  
  
const greeting = greetPerson("Sam")
```



Functions

Go to the editor!



Functions

Questions on functions

Thanks

Exercises will be deployed on these topics

Functions are complicated

