



Web Developer Bootcamp

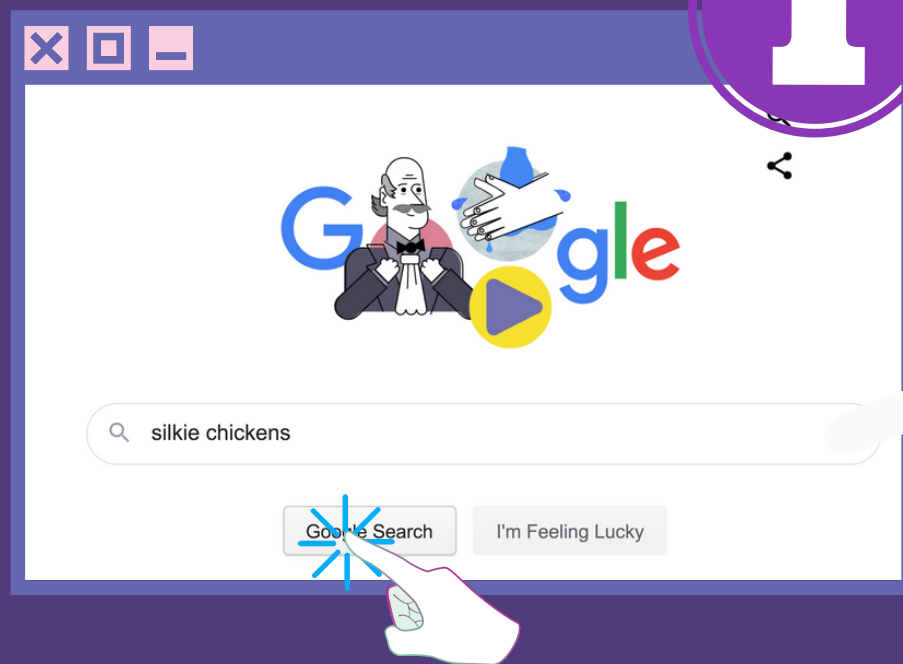
JavaScript Basics

VALUES & VARIABLES



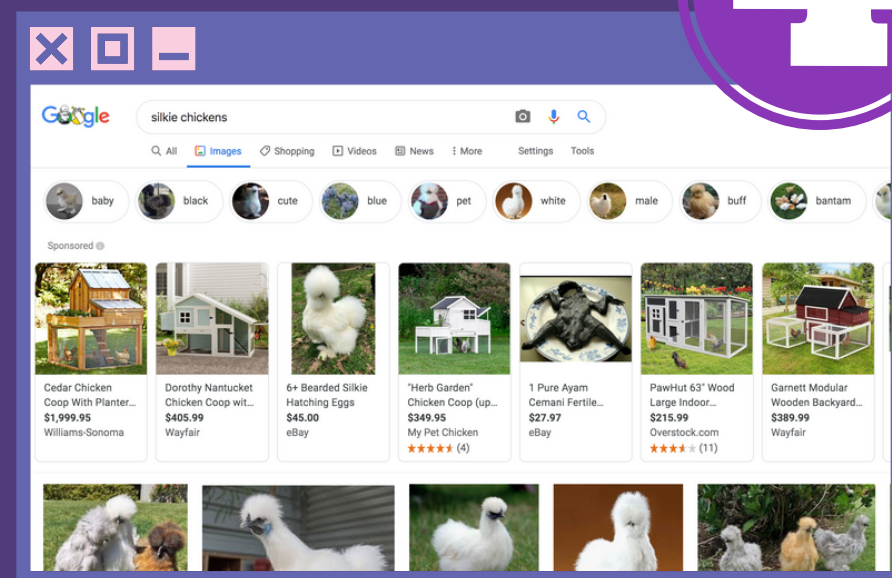
JS-LAND





1

PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS



4

FRONT END

2

HANG ON,



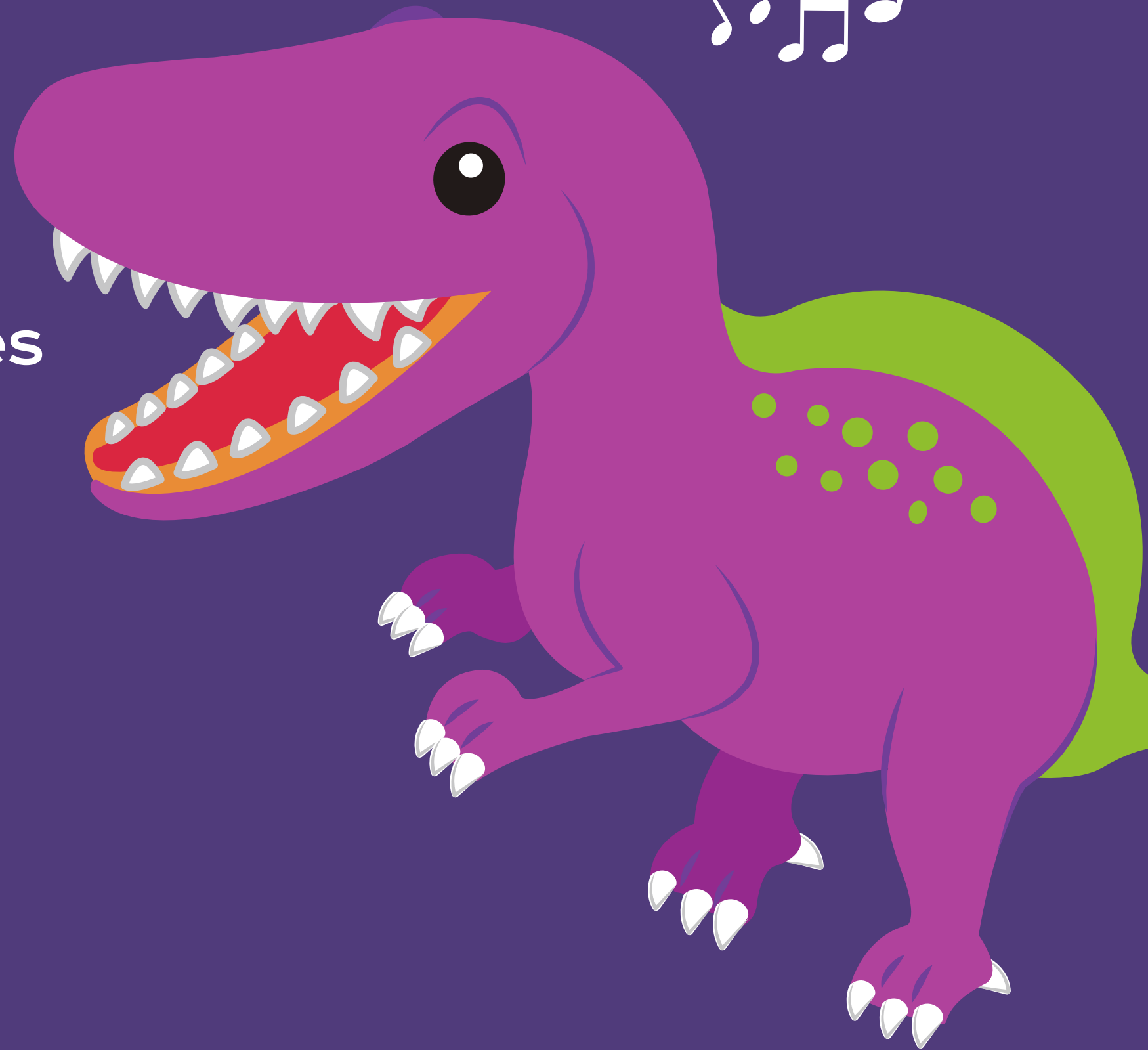
3

HERE YOU GO!



BACK END

THE
PURPLE CSS – adjectives
DINO HTML – nouns
DANCED JS – verbs





1

LEARN JS ON
ITS OWN. NO
HTML/CSS.



2

USE JS TO
MANIPULATE
HTML/CSS

Primitive Types

THE BASIC BUILDING BLOCKS

Number

String

Boolean

Null

Undefined

* Technically there are two others: Symbol and BigInt



N

DIFFERENT DATA TYPES

Hall & Oates - When The Morning Comes

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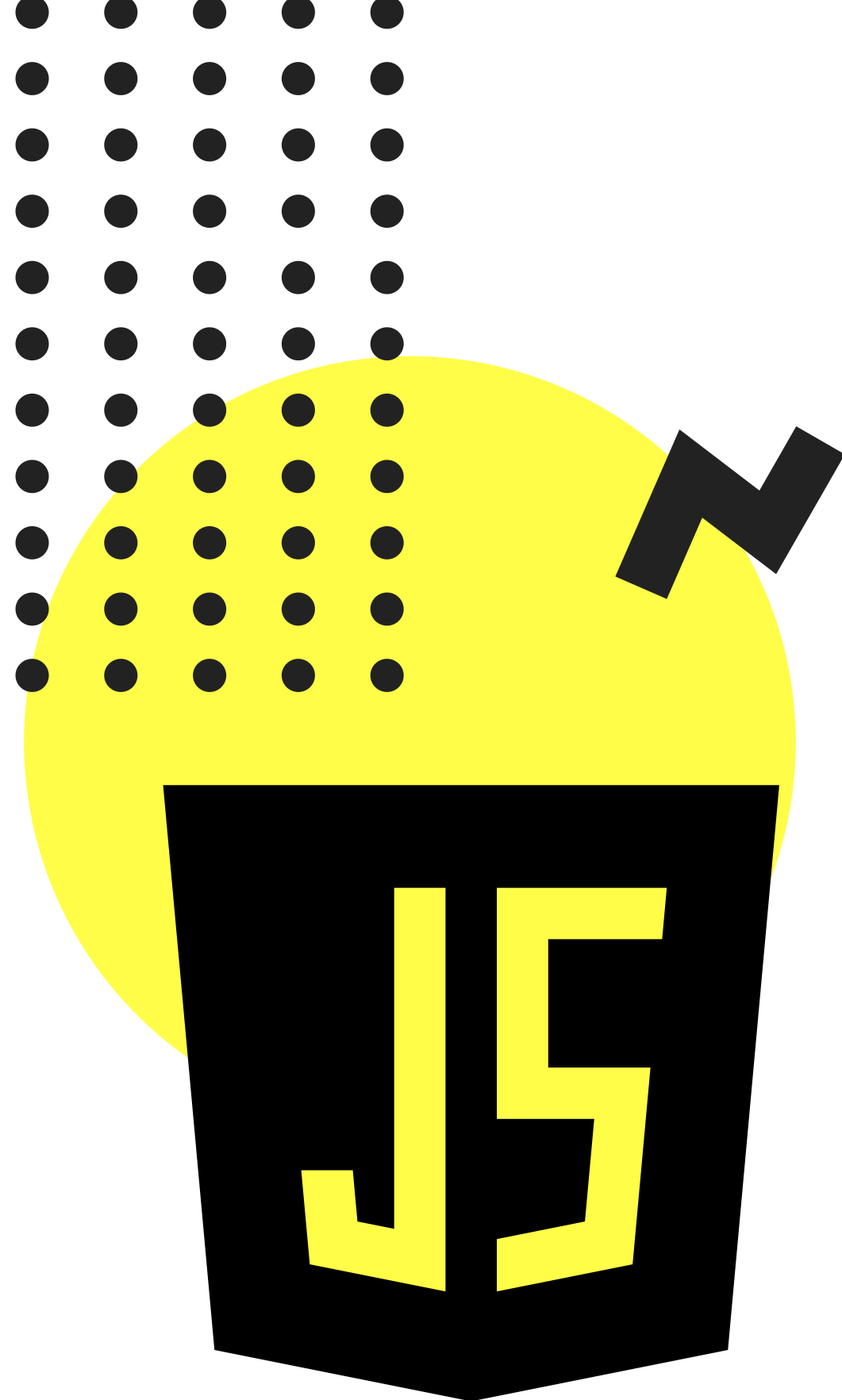


mickey castle
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Running Code in The Console

THE EASIEST PLACE TO START

Early on, we'll run our code using the Chrome developer tools console. Then, we'll learn how to write external scripts.



50

7

3.874

0.99

-45

-777.23444

Numbers

IN JAVASCRIPT

- JS has one number type
- Positive numbers
- Negative numbers
- Whole numbers (integers)
- Decimal numbers

Math Operations



```
//Addition  
50 + 5 //55
```

```
//Subtraction  
90 - 1 //89
```

```
//Multiplication  
11111 * 7 //77777
```

```
//Division  
400 / 25 //16
```

```
//Modulo!!  
27 % 2 //1
```

// creates a comment
(the line is ignored)



NOT A NUMBER

NaN

NaN is a numeric value that represents
something that is...not a number



Not A Number



```
0/0 //NaN
```

```
1 + NaN //NaN
```

WHAT DOES THIS
EVALUATE TO??



4 + 3 * 4 / 2

WHAT DOES THIS
EVALUATE TO??



```
(13 % 5) ** 2
```

WHAT DOES THIS
EVALUATE TO??



200 + 0/0



Variables

VARIABLES ARE LIKE LABELS FOR VALUES

- We can store a value and give it a name so that we can:
- Refer back to it later
- Use that value to do...stuff
- Or change it later one

BASIC SYNTAX

```
let someName = value;
```



BASIC SYNTAX



```
let year = 1985;
```

Make me a variable called "year" and give it the value of 1985

RECALL VALUES



```
let hens = 4;
```

```
let roosters = 2;
```

```
hens + roosters //6
```

RECALL VALUES



```
let hens = 4;
```

```
//A raccoon killed a hen :(  
hens - 1; //3
```

```
hens; //Still 4!
```

```
//To actually change hens:  
hens = hens - 1;  
hens //3
```

This does not change the
value stored in hens

This does!

CONST



```
const hens = 4;  
hens = 20; //ERROR!
```

```
const age = 17;  
age = age + 1; //ERROR!
```

`const` works just like
let, except you CANNOT
change the value

NOT ALLOWED!
YOU'RE IN TROUBLE!!
I'M TELLING MOM!!!

WHY USE CONST?



```
const pi = 3.14159;  
  
const daysInWeek = 7;  
  
const minHeightForRide = 60;
```

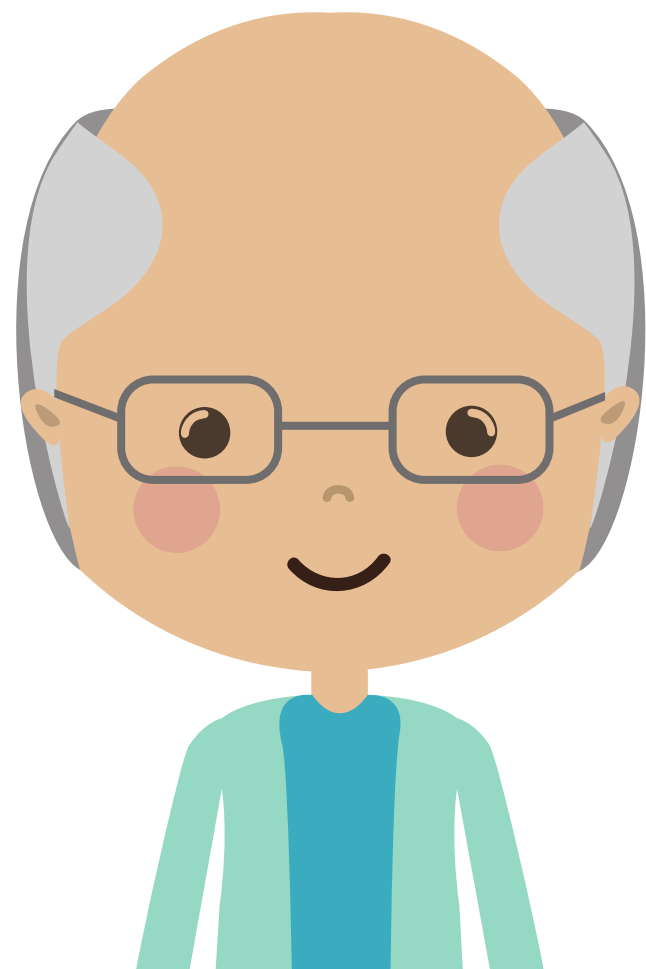

Once we cover Arrays & Objects, we'll see other situations where *const* makes sense over *let*.



VAR

THE OLD VARIABLE KEYWORD

BEFORE LET & CONST, VAR WAS THE ONLY WAY OF DECLARING VARIABLES. THESE DAYS, THERE ISN'T REALLY A REASON TO USE IT.

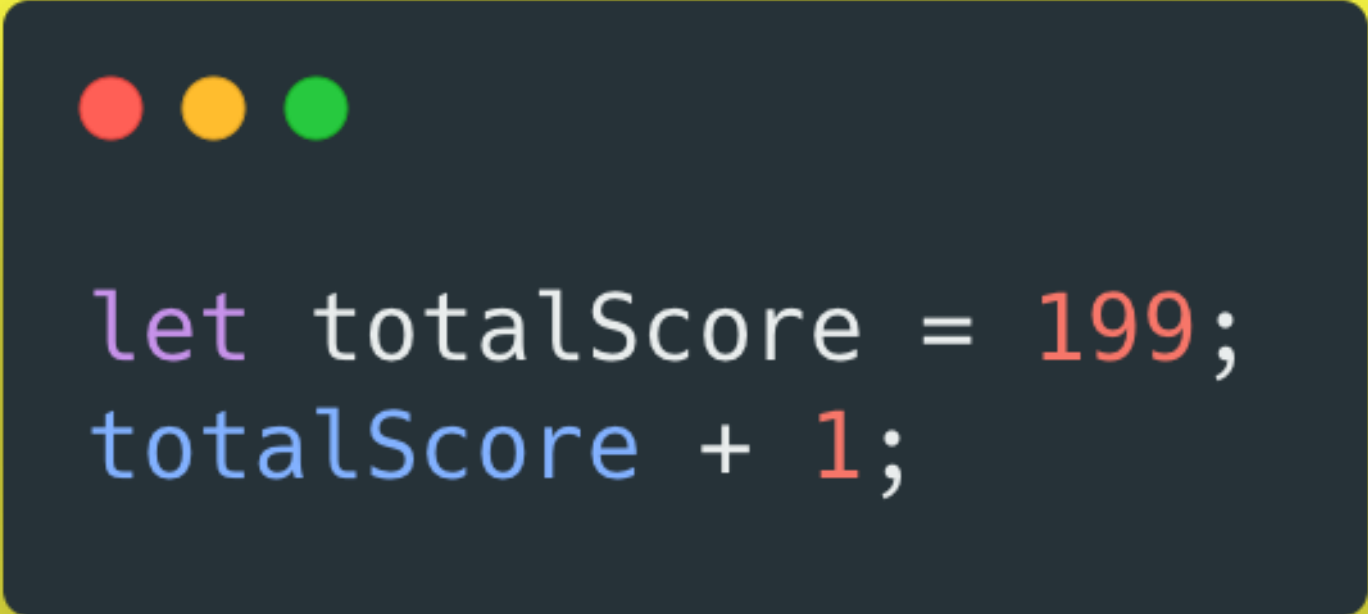


What is the value of totalScore?



```
let totalScore = 199;  
totalScore + 1;
```


What is the value of totalScore?



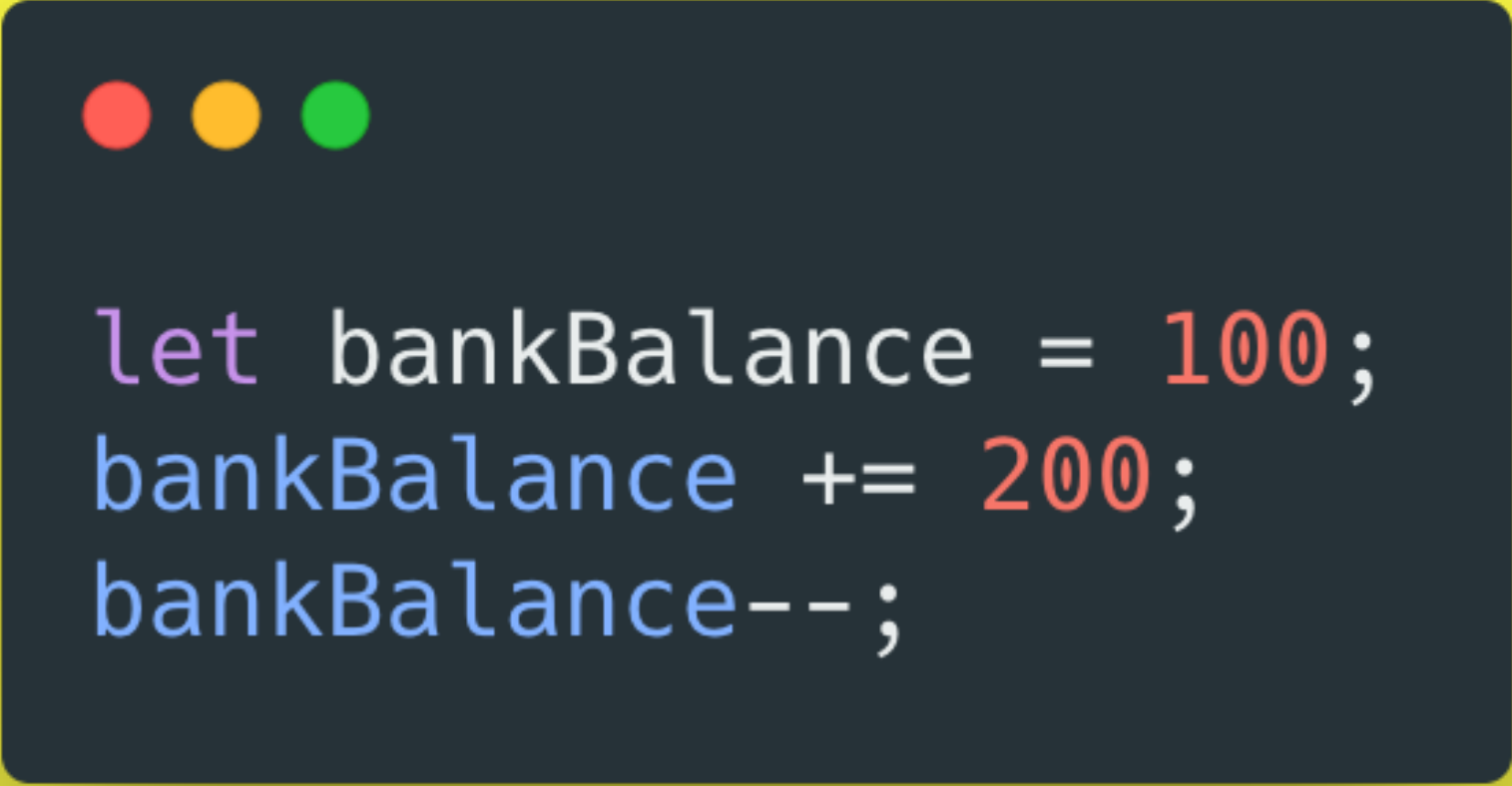
```
let totalScore = 199;  
totalScore + 1;
```

What is the value of temperature?



```
const temperature = 83;  
temperature = 85;
```

What is the value of bankBalance?



```
let bankBalance = 100;  
bankBalance += 200;  
bankBalance--;
```



BOOLEANS

TRUE


or

FALSE



Booleans

TRUE OR FALSE



```
let isLoggedIn = true;  
let gameOver = false;  
const isWaterWet = true;
```

Booleans are very simple.
You have two possible options: true
or false. That's it!

Variables Can Change Types

```
let numPuppies = 23; //Number  
numPuppies = false; //Now a Boolean  
numPuppies = 100;    //Back to Number!
```

It doesn't really make sense to change from a number to a boolean here, but we can!