CompSci Course

{CODENATION}

JavaScript Fundamentals

Dot Notation

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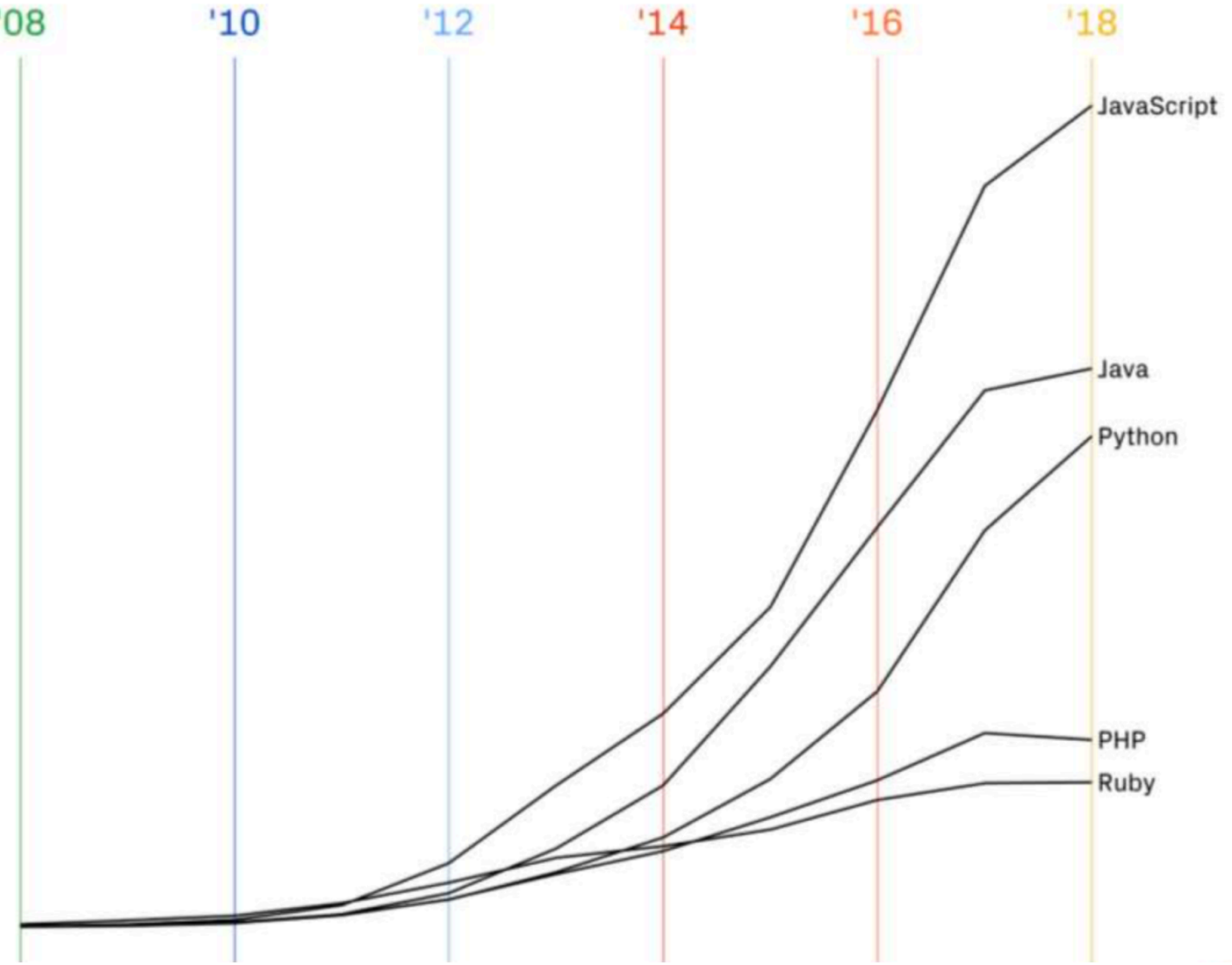
Learning Objectives

- To understand dot notation
- To understand different data types

Dot notation

JavaScript is one of the most popular languages in the world.

Top programming languages by repositories created, 2008–2018



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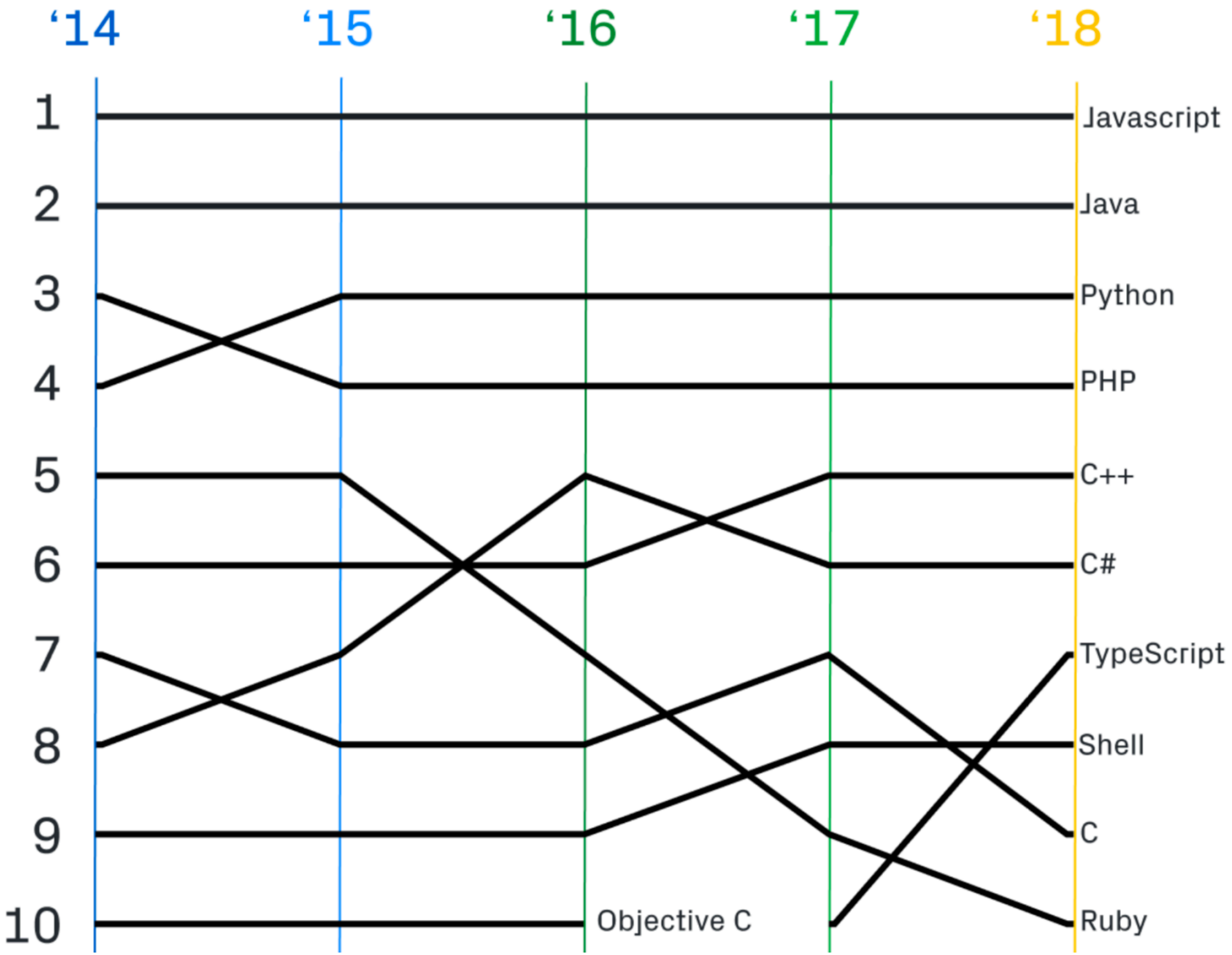
Rank of top programming languages over time



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It is the language of the
Full Stack Developer.

It uses data...

...what is data?...

Data types...

In JavaScript, we have a few simple (primitive is the technical posh word) kinds of data.

Data types...

String : for representing **text**

Number : for representing **numbers** (decimal and integers)

Boolean : for **true** and **false**

More data types...

Null : for nothing

Undefined : for when a data type isn't determined

Symbol : This data type is used as the key for an object property when the property is intended to be private, for the internal use of a class or an object type

Data has properties...

Dot notation

Get ~~off~~ on my

data

.property

Let's look at a string

Strings have associated data or additional information available

How many letters in "Hello"?

Dot notation

```
console.log("Hello".length)
```

We use dot notation to access the property of an object...

```
"hello.length";
 string.length;
object.property;
```

Try this...

```
console.log("Hello, what is your name?".length)
```

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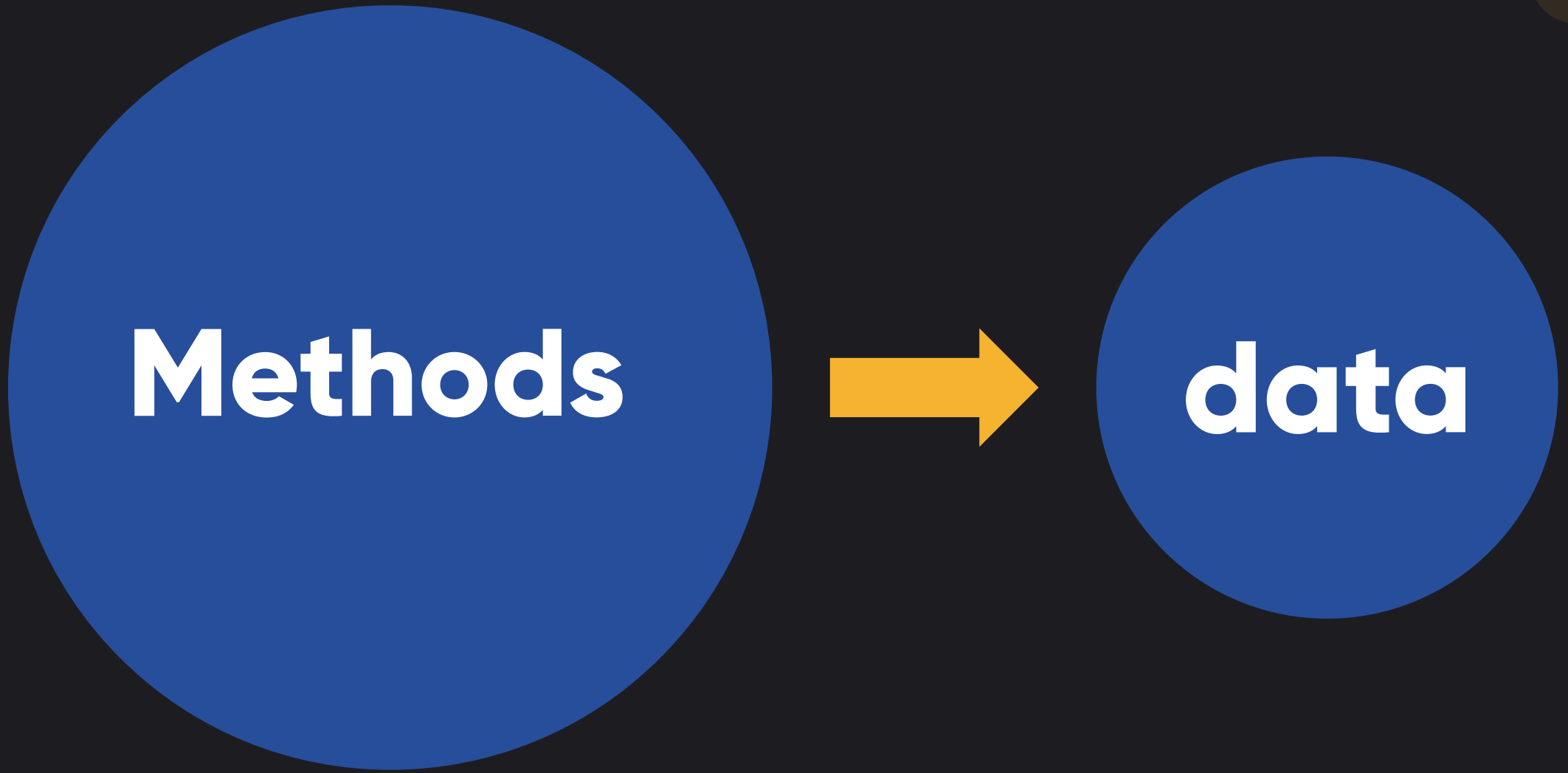
What happens...

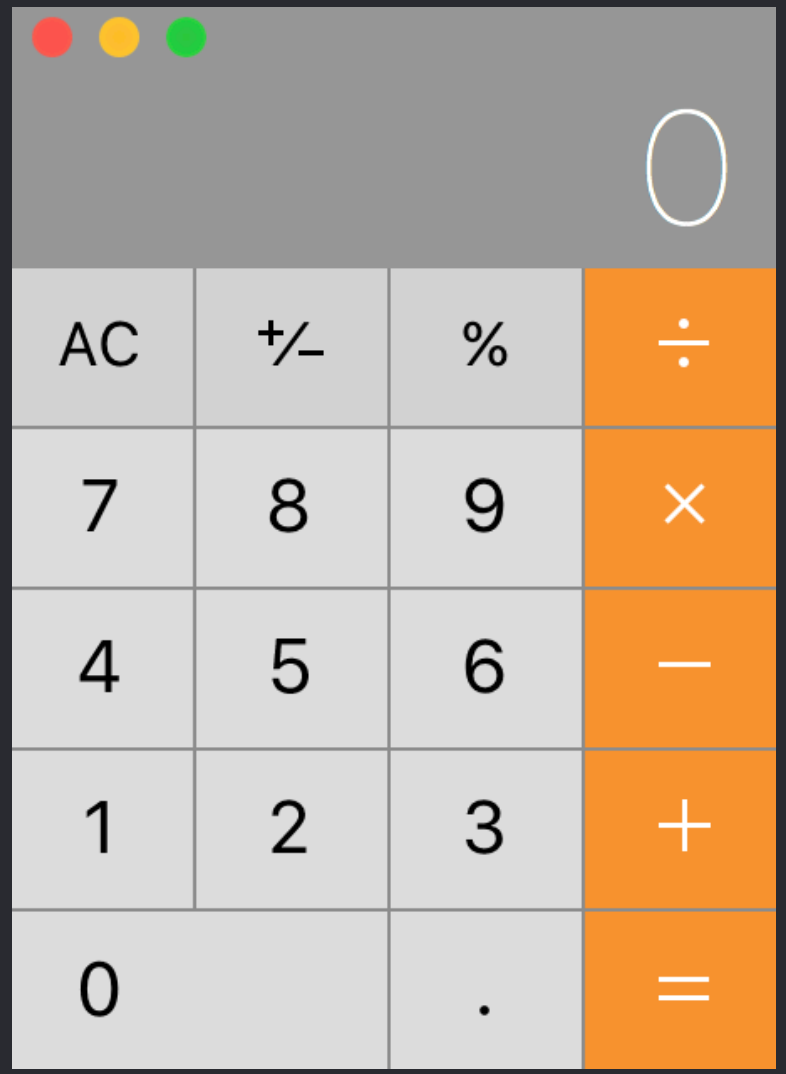
So, it uses data...

...and methods...

Methods and data, are intimately linked.


Methods
data

Everyone loves a calculator



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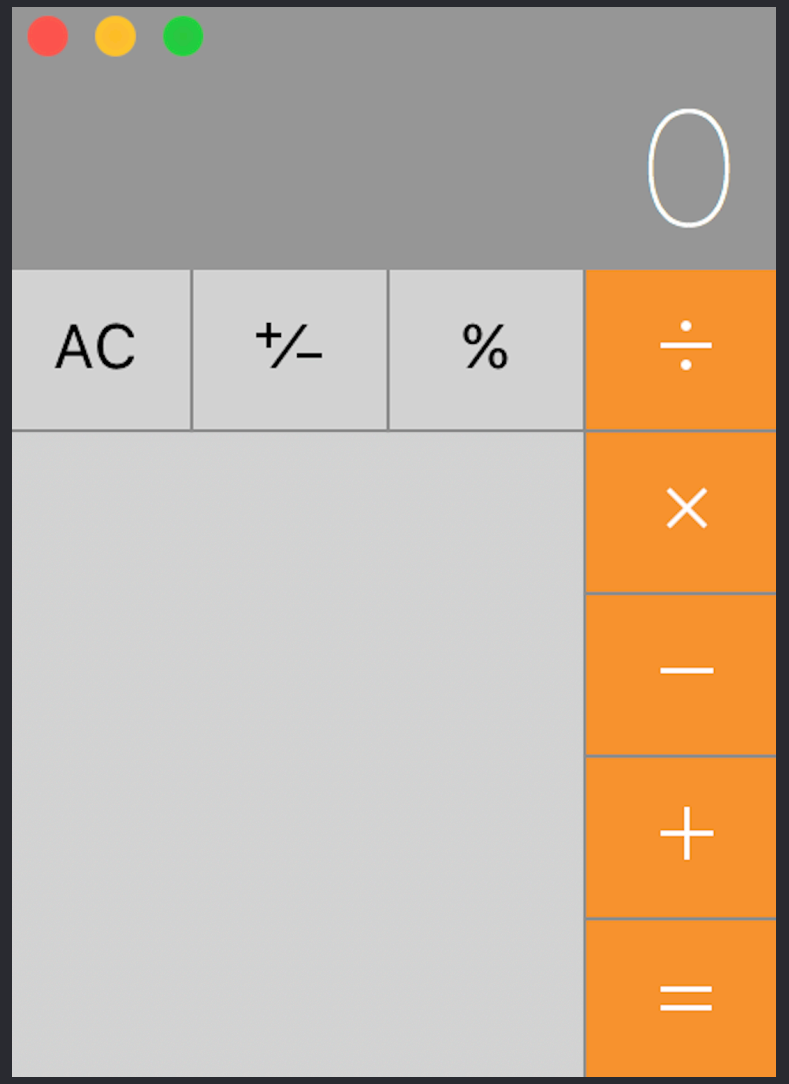
No data!!!!!



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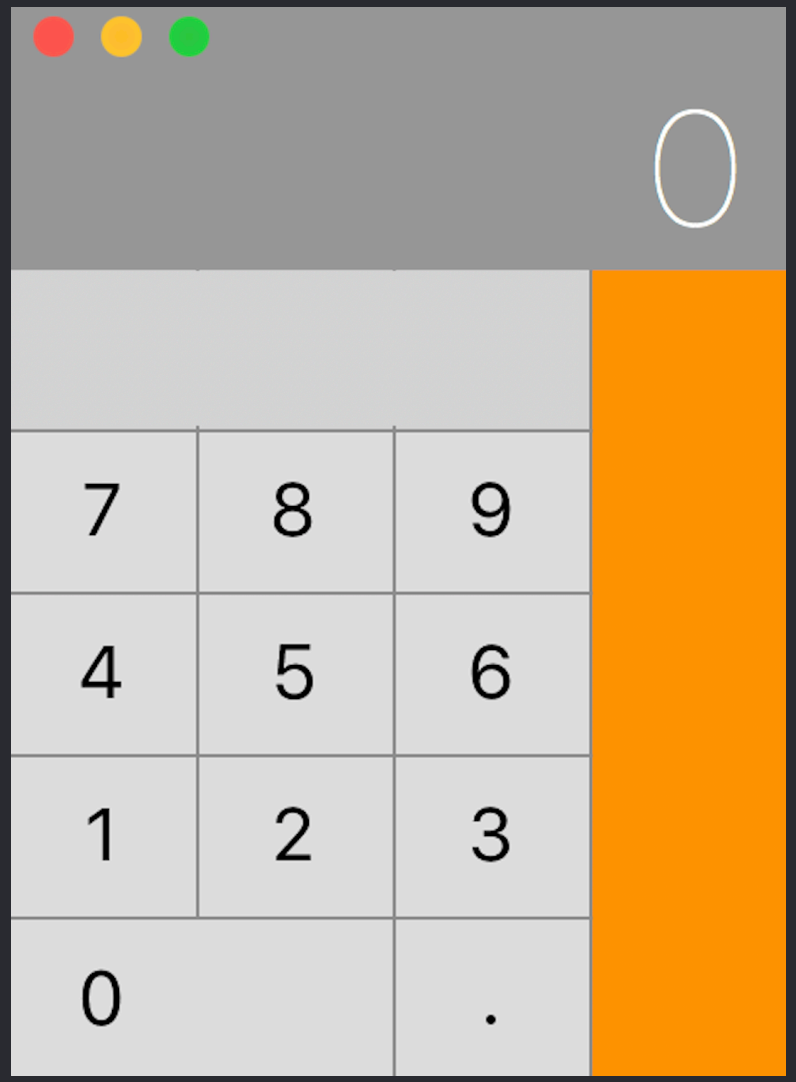
No methods!!!!



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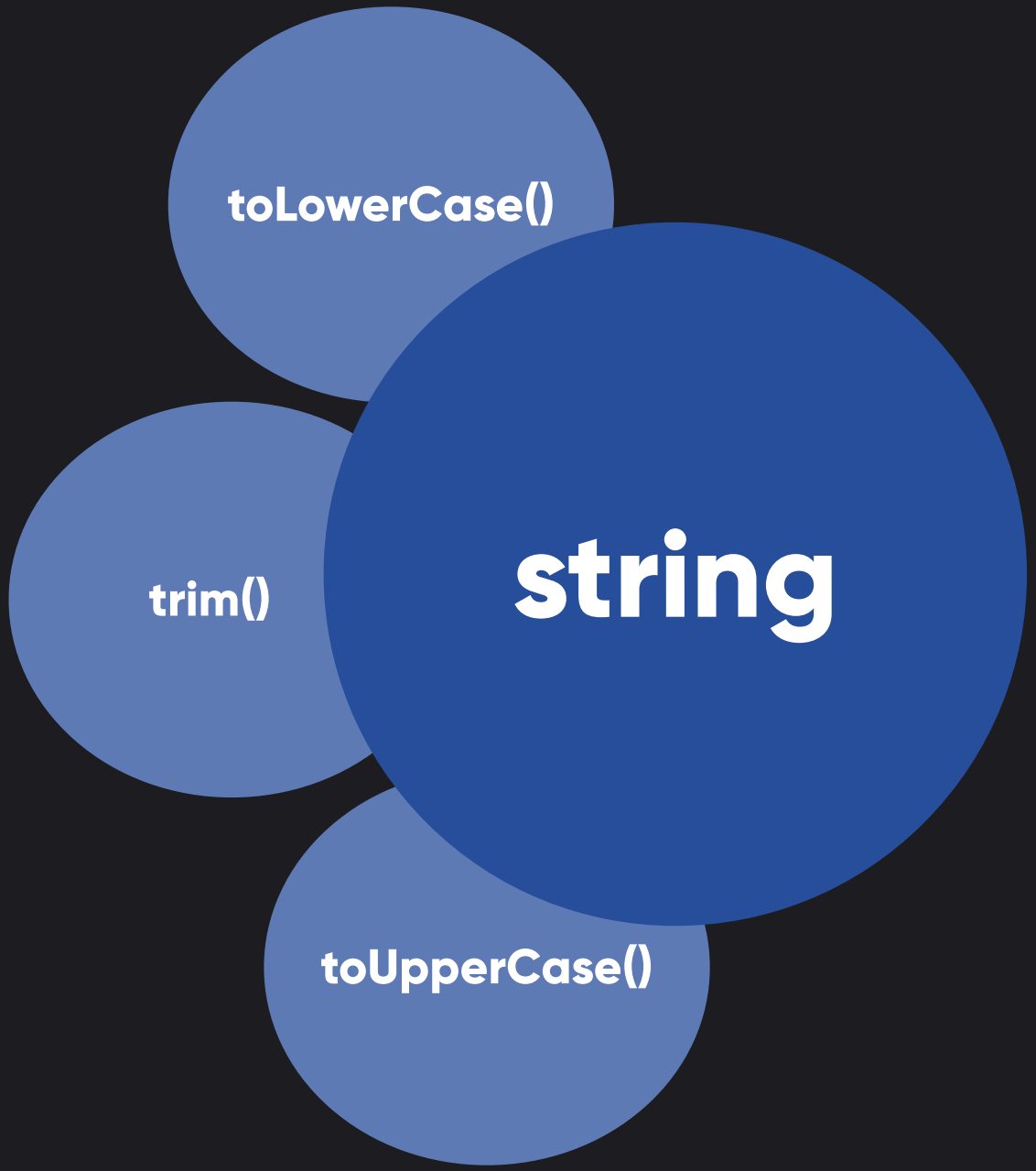

JS

Strings have **methods** that we can use to **manipulate** them.

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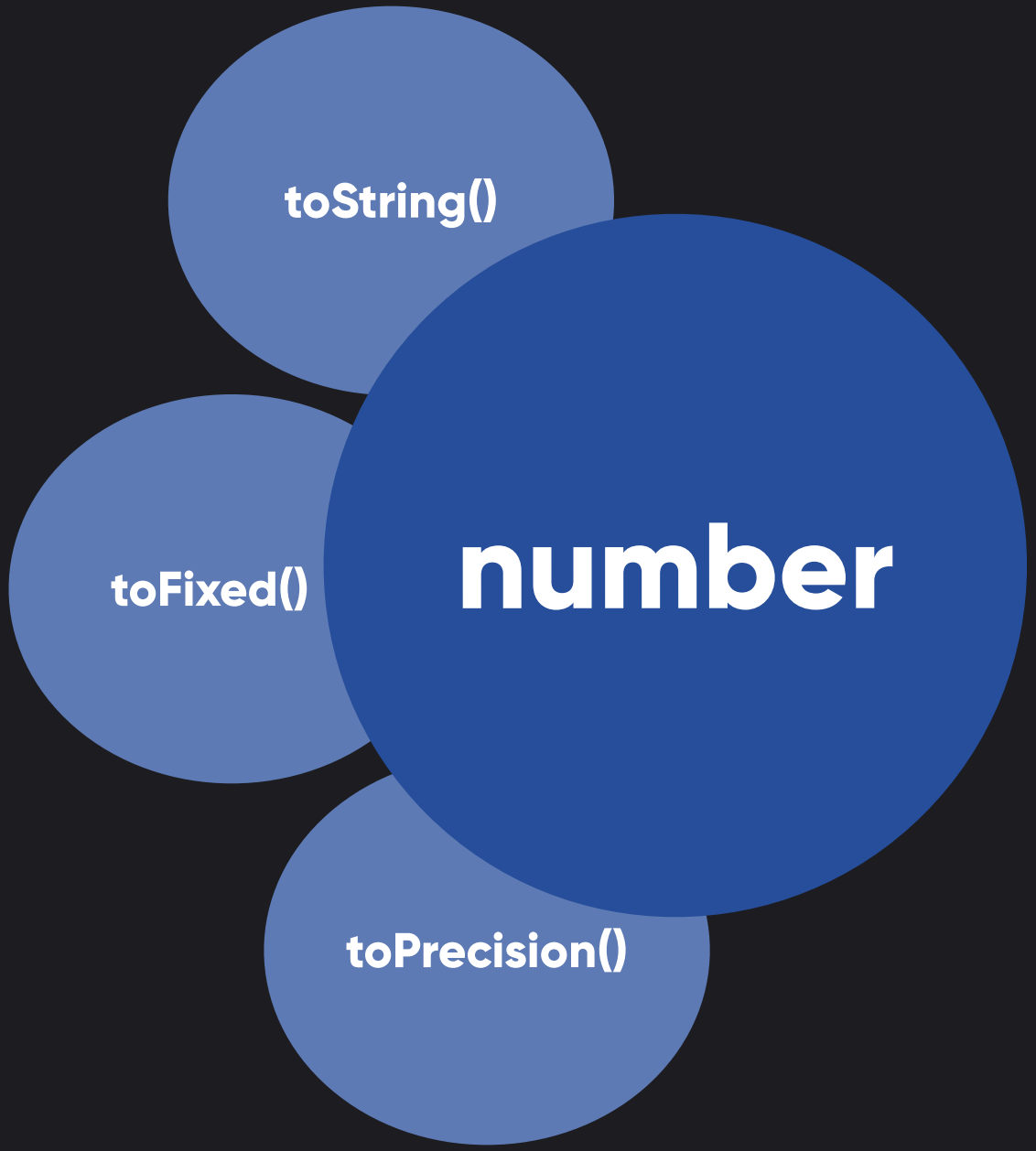

As do **numbers**.

Try this...

```
console.log("Hello".toUpperCase)
```

What happens?...

Methods need parameters()...

Now try this...

```
console.log("Hello".toUpperCase())
```

Dot notation

```
hello.upper()
string.upper()
object.property()
```

Research activity

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Number

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String

Revisiting Learning Objectives

- To understand dot notation
- To understand different data types