# JAVASCRIPT FUNDAMENTALS – PART 1

# THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

**SECTION**

JAVASCRIPT FUNDAMENTALS – PART 1

**LECTURE**

A BRIEF INTRODUCTION TO JAVASCRIPT

# WHAT IS JAVASCRIPT?

We don’t have to worry about complex stuff like memory management

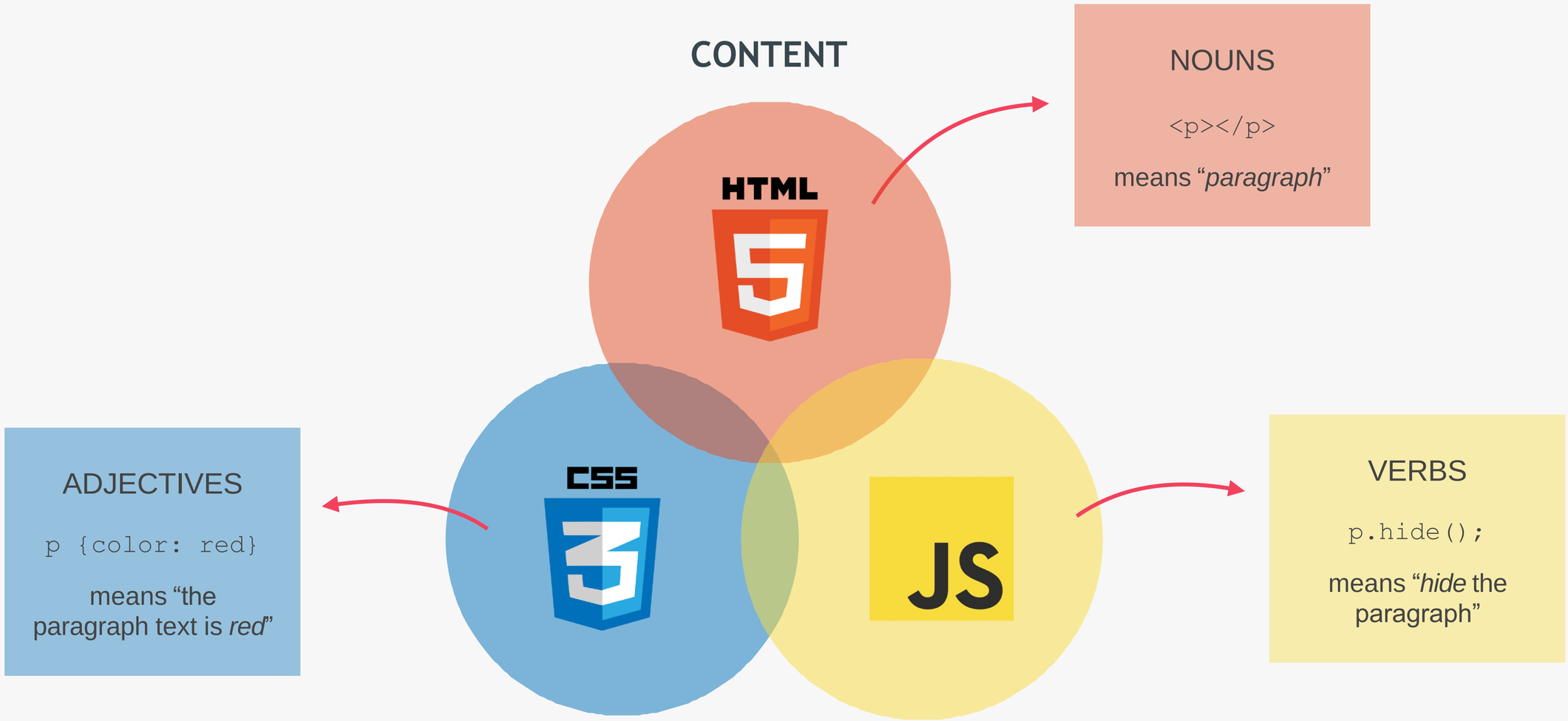
JAVASCRIPT IS A HIGH-LEVEL, OBJECT-ORIENTED, MULTI-PARADIGM PROGRAMMING LANGUAGE. 🤯

Based on objects, for storing most kinds of data

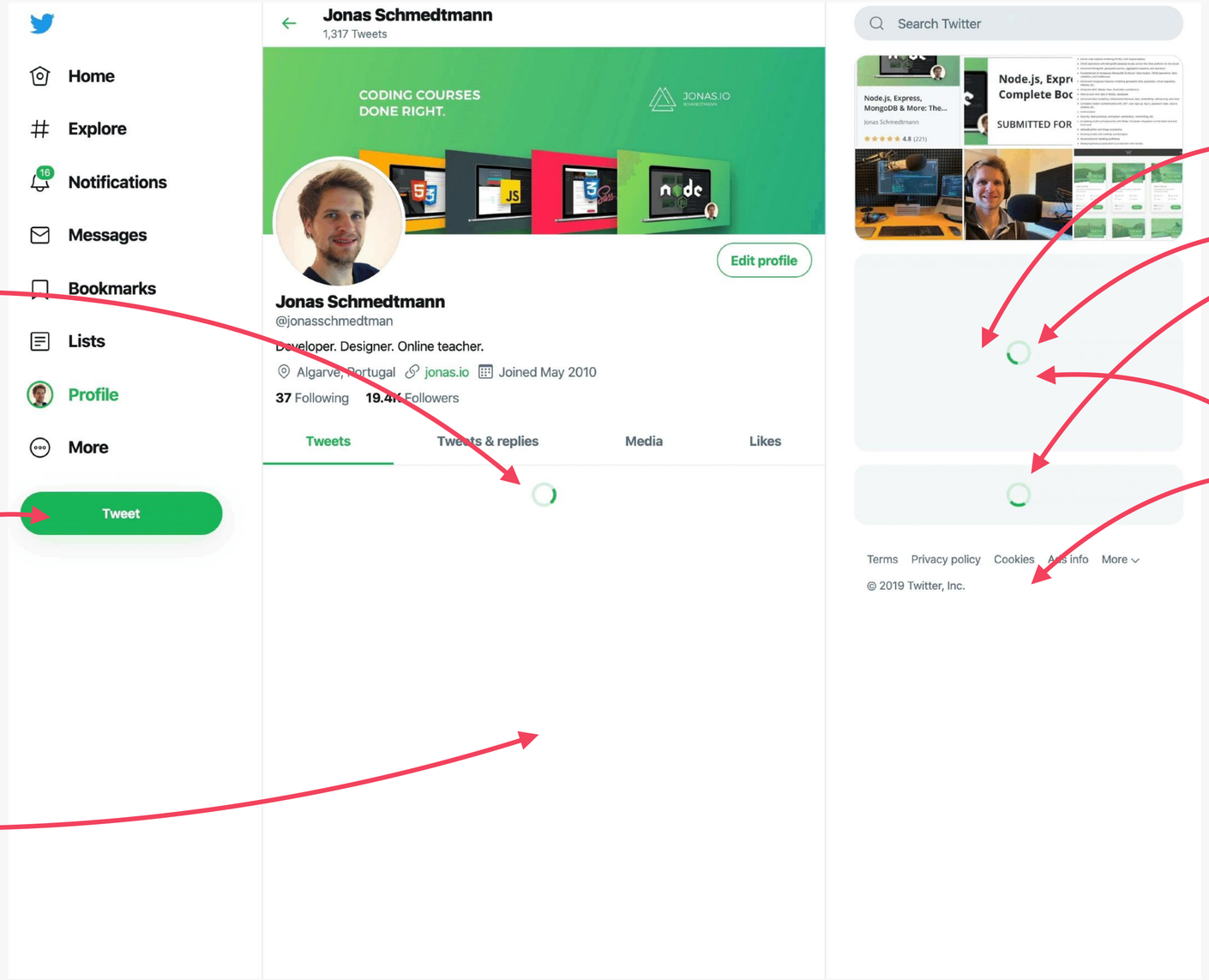
We can use different styles of programming

Instruct computer to *do* things

# THE ROLE OF JAVASCRIPT IN WEB DEVELOPMENT



# EXAMPLE OF DYNAMIC EFFECTS / WEB APPLICATION




Show spinner + loading data in the background

Show tweet box after clicking

Display tweets after loading data

Display user info on hover

Show spinner + loading data in the background

Show data after loading

# THERE IS NOTHING YOU CAN'T DO WITH JAVASCRIPT (WELL, ALMOST...)

Front-end apps

Dynamic effects and web applications in the browser 😍

THIS COURSE

100% based on JavaScript. They might go away, **but JavaScript won't**!

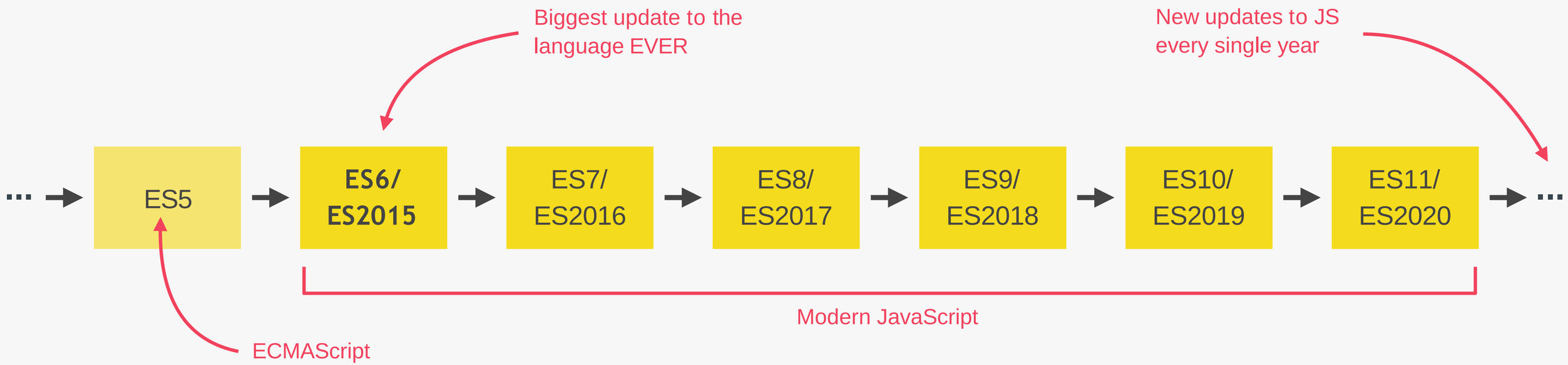
Back-end apps

Web applications on web servers

Native mobile applications

Native desktop applications

# JAVASCRIPT RELEASES... (MORE ABOUT THIS LATER)




🔥 Learn modern JavaScript from the beginning, but without forgetting the older parts!

🥳 Let's finally get started!

# THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

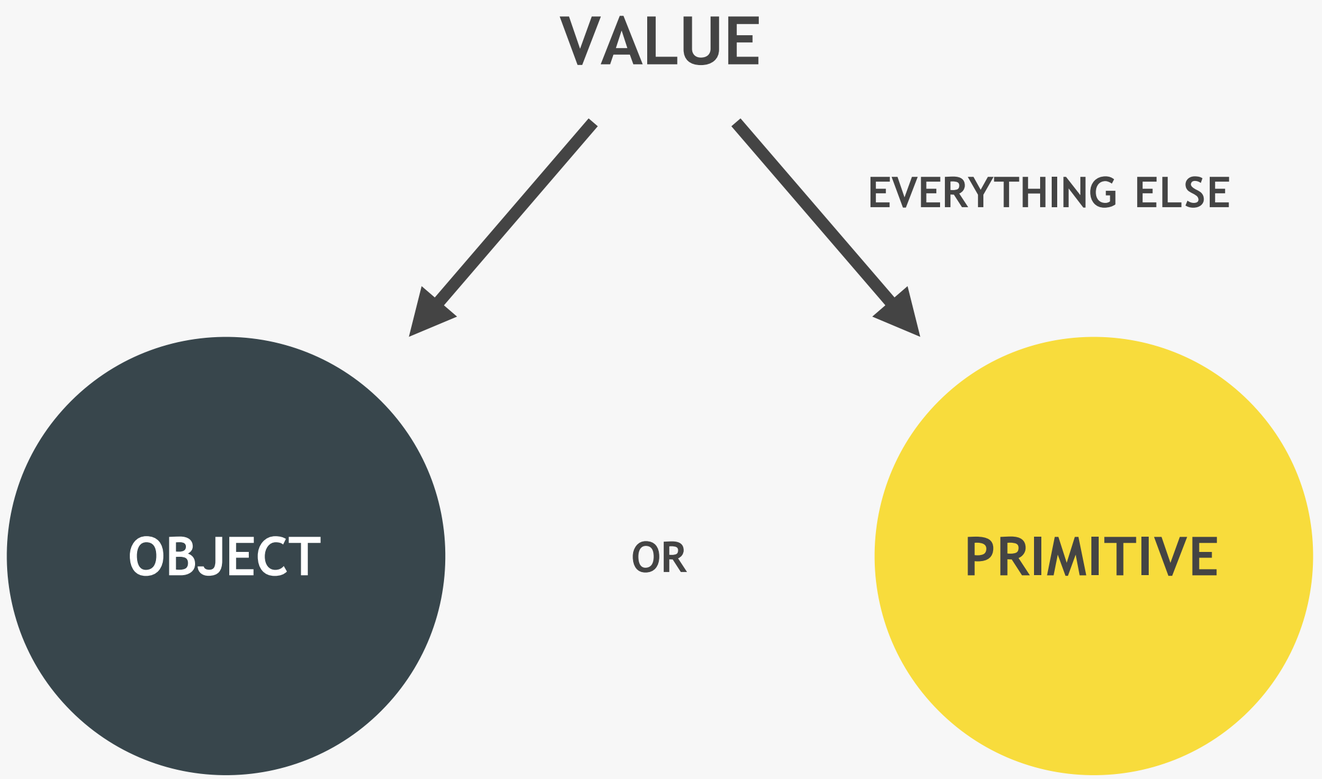
**SECTION**

JAVASCRIPT FUNDAMENTALS – PART 1

**LECTURE**

DATA TYPES

# OBJECTS AND PRIMITIVES




```
let me = {
  name: 'Jonas'
};
```

```
let firstName = 'Jonas';
let age = 30;
```

# THE 7 PRIMITIVE DATA TYPES

1. Number: Floating point numbers 👉 Used for decimals and integers
```
let age = 23;
```
2. String: Sequence of characters 👉 Used for text
```
let firstName = 'Jonas';
```
3. Boolean: Logical type that can only be `true` or `false` 👉 Used for taking decisions
```
let fullAge = true;
```
4. Undefined: Value taken by a variable that is not yet defined (‘empty value’)
```
let children;
```
5. Null: Also means ‘empty value’
6. Symbol (ES2015): Value that is unique and cannot be changed *[Not useful for now]*
7. BigInt (ES2020): Larger integers than the Number type can hold

☝️ JavaScript has dynamic typing: We do *not* have to manually define the data type of the value stored in a variable. Instead, data types are determined automatically.

Value has type, NOT variable!