

# THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

# SECTION

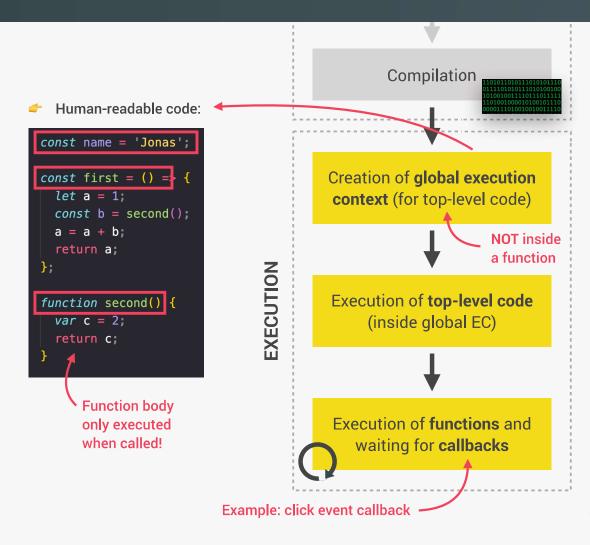
HOW JAVASCRIPT WORKS BEHIND THE SCENES

# LECTURE

EXECUTION CONTEXTS AND THE CALL STACK



### WHAT IS AN EXECUTION CONTEXT?



#### **EXECUTION CONTEXT**

Environment in which a piece of JavaScript is executed. Stores all the necessary information for some code to be executed.



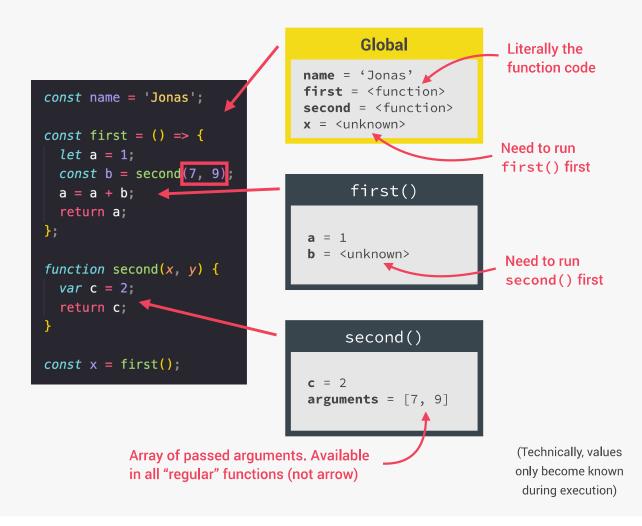
- Exactly one global execution context (EC):
  Default context, created for code that is not inside any function (top-level).
- One execution context <u>per function</u>: For each function call, a new execution context is created.

All together make the call stack

## EXECUTION CONTEXT IN DETAIL

# WHAT'S INSIDE EXECUTION CONTEXT? Variable Environment let, const and var declarations Functions arguments object Scope chain **NOT** in arrow functions! this keyword **Generated during "creation**

phase", right before execution



# THE CALL STACK

Compiled code starts execution

```
const name = 'Jonas';
const first = () => {
  let a = 1;
 const b = second(7, 9);
 a = a + b;
 return a;
};
function second(x, y) {
 var c = 2;
  return c;
const x = first();
```

