

# THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

## SECTION

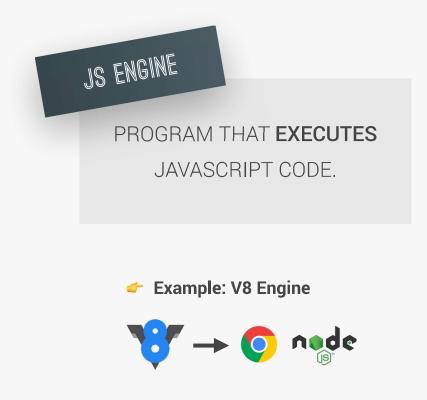
HOW JAVASCRIPT WORKS BEHIND THE SCENES

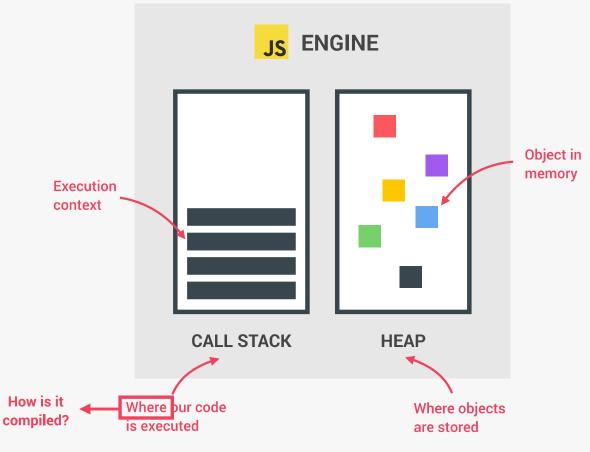
## LECTURE

THE JAVASCRIPT ENGINE AND RUNTIME



## WHAT IS A JAVASCRIPT ENGINE?





## COMPUTER SCIENCE SIDENOTE: COMPILATION VS. INTERPRETATION



**Compilation:** Entire code is converted into machine code at once, and written to a binary file that can be executed by a computer.



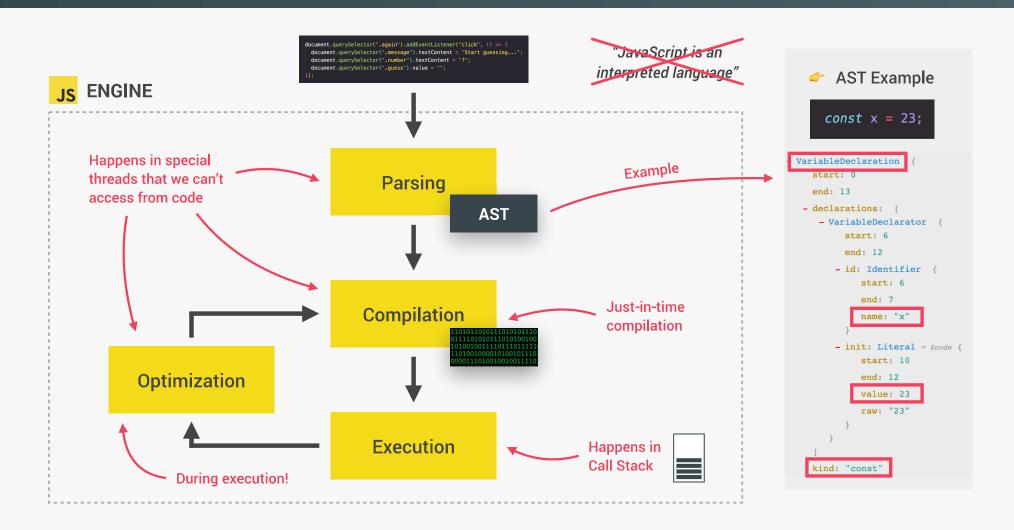
Interpretation: Interpreter runs through the source code and executes it line by line.



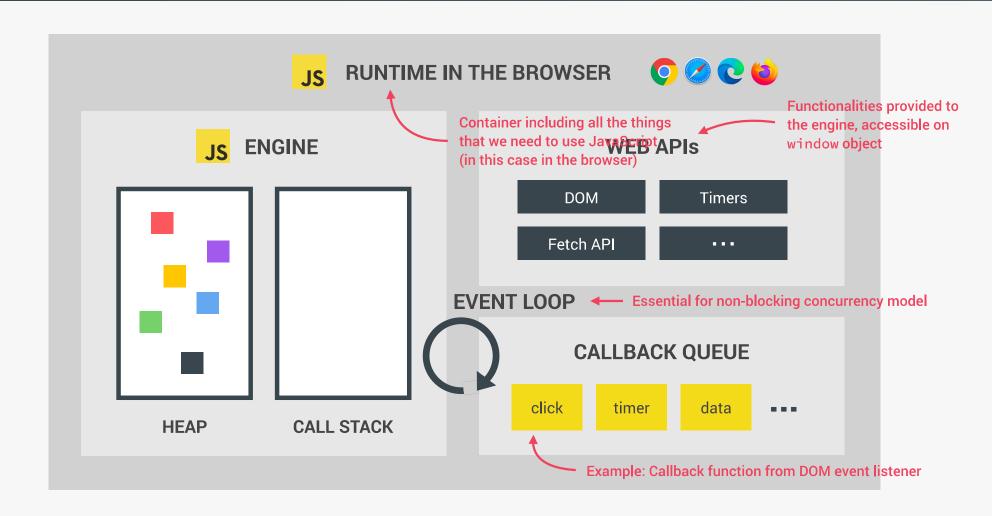
Just-in-time (JIT) compilation: Entire code is converted into machine code at once, then executed immediately.



### MODERN JUST-IN-TIME COMPILATION OF JAVASCRIPT



### THE BIGGER PICTURE: JAVASCRIPT RUNTIME



# THE BIGGER PICTURE: JAVASCRIPT RUNTIME

