JavaScript Conceptual Side

<https://www.youtube.com/watch?v=Bv_5Zv5c-Ts>

Intro:

* Brackets.io

Syntax Parser –

* Program that reads your code, determines what it does, and if its grammatically valid
* Determines if syntax is valid, then implements that syntax in a way the computer understands
* What’s being executed isn’t what you’ve written – but the translation from the parser
* Your code 🡪 program someone else wrote translates it for the computer
* \*Compilers
* \*Interpreters

Lexical Environment –

* Scope
* Has to do with the syntax
* Where its written and what surrounds it

Execution Context –

* When js code / file is executed this context is created
* Manages which lexical scope is currently running

JS Objects – collection of name value pairs

The Global Execution Context –

* The JS engine creates:
* the Global Object 🡪 Window
* the variable this
* window – the current tab – each tab has its own global execution context
* Depending on where you are running your js code the global object will vary
* On browsers – the object is always window
* Different for servers
* But regardless there will always be a global object

Hoisting –

* “vars & functions are moved up to the top” to 100% accurate