Handout #5 - JavaScript

Scripts

in \<head\>	at end of \<body\>	in \<head\> with defer
❌ pauses rendering while script is being downloaded, parsed, and executed	✔️ rendering continues until script tag is encountered	✔️ execution is paused until DOM has been parsed
✔️ download begins immediately	❌ download does not start until script tag is encountered	✔️ download begins immediately
✔️ works with inline scripts	✔️ works with inline scripts	❌ not supported for inline scripts

Variable Declarations

var	let	const
❌ function-scoped, hoisted to top of function	✔️ block-scoped	✔️ block-scoped
❌ in global scope, overrides window object	✔️ in global scope, does not override window object	✔️ in global scope, does not override window object
❌ can be redeclared within same scope	✔️ cannot be redeclared within same scope	✔️ cannot be redeclared within same scope
❌ can be reassigned	❌ can be reassigned	✔️ cannot be reassigned

Data Types

data type	description
undefined	no assigned value
boolean	true/false
number	stored in [64-bit floating point format (IEEE 754)](#)
bigint	integers stored in an [arbitrary precision format](#)
string	a sequence of characters
symbol	*advanced topic, not covered in this course*
object	null, objects, and arrays
function	can be invoked/called, declared with function or arrow notation

More information and examples found here:
https://flaviocopes.com/javascript-async-defer/
https://hackernoon.com/why-you-shouldnt-use-var-anymore-f109a58b9b70
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data_structures