Data types

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Rules

Feel free to interrupt me for:

- questions

- relevant comments

Agenda

- dynamic typing

- primitive values / types

- reference values / types

Dynamic typing

- you don't need to specify the type of the variable

- the same variable can store different types of data

- it offers great freedom, but at the same time introduces many problems

- TypeScript is a superset of JavaScript that offers static typing and compiles to JavaScript

What is a type and what is a value?

- type

- value

JavaScript offers 2 kinds of types / values

- **primitive**: types store the actual value directly

- **reference**: types store memory addresses, enabling them to reference complex objects and share data across different parts of a program

Primitive types / values

- string

- number

- boolean

- null

- undefined

- symbol (es6)

Reference types / values

- arrays

- objects

- functions

- dates

- regex

- (weak) maps, (weak) sets (es6)

- anything that isn't primitive

Primitive vs reference values

- immutability of primitive types / values

- mutability of reference types / values

Workshop

- demo

Happy coding!