

Data types

tsevdos.me / [@tsevdos](https://twitter.com/tsevdos)

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 (ES2015)

Reference types / values

- arrays
- objects
- functions
- dates
- regex
- (weak) maps, (weak) sets (ES2015)
- anything that isn't primitive

Primitive vs reference values

- immutability of primitive types / values
- mutability of reference types / values

Workshop

- demo

Happy coding!