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What is JavaScript?

A programming language that can be executed by browsers.

The only programming language browsers can execute!

HTML	CSS	**JavaScript**
Define structure and semantics	Style the elements and page content	Change the page dynamically (without loading a different HTML file), do “behind the scenes” calculations and work & much more!

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JavaScript Applications & Use-Cases

- Update displayed data behind the scenes (e.g. weather data, stocks data, chat messages, ...)
- Display or use a timer
- Validate user input and show error message + attach error styles to elements
- Display & manage complex overlays
- Re-order, hide / show or remove elements on the screen (e.g. drag-and-drop list)
- Keep (parts of) websites working, even if the internet connection is lost

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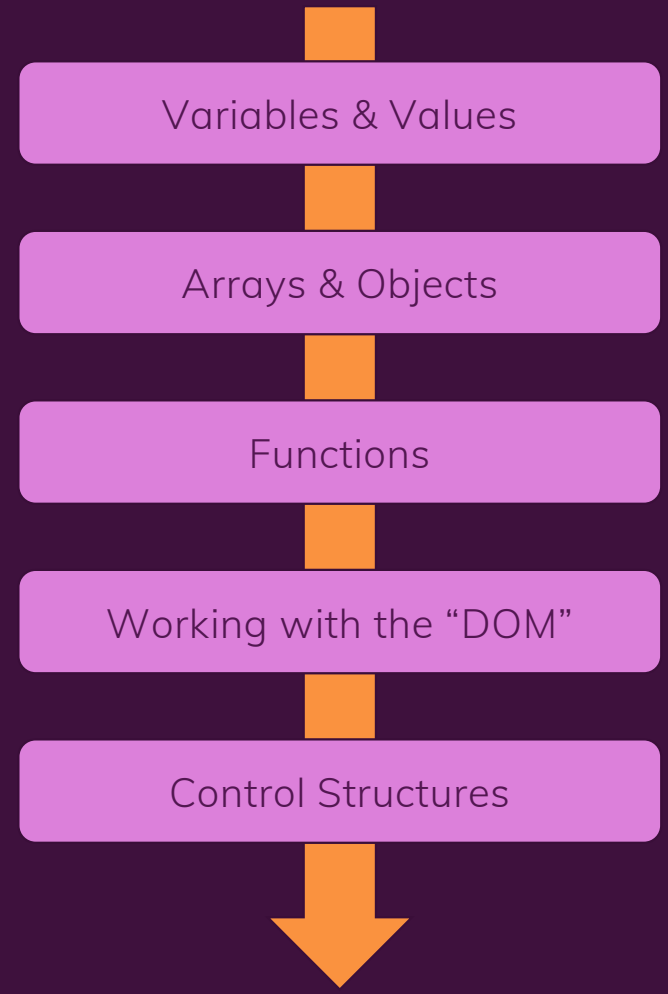
Core JavaScript Syntax & Features



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What is “Syntax”?

It’s the “Grammar” of a Programming Language

Certain rules, you must adhere to *(otherwise, your code won’t work and you’ll get an error)*

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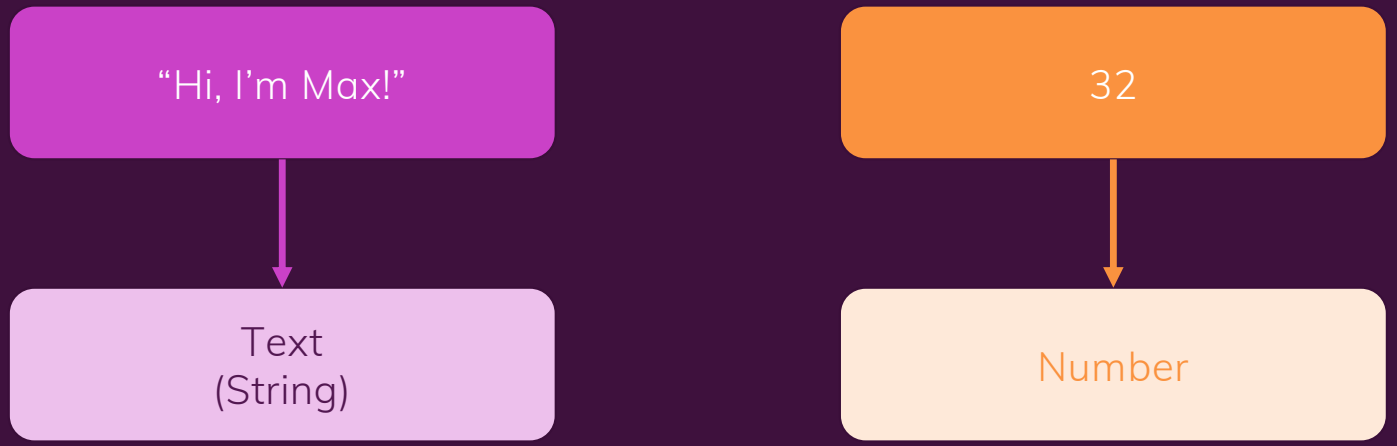
Understanding Values



There are more available values: Booleans, objects, arrays, ...

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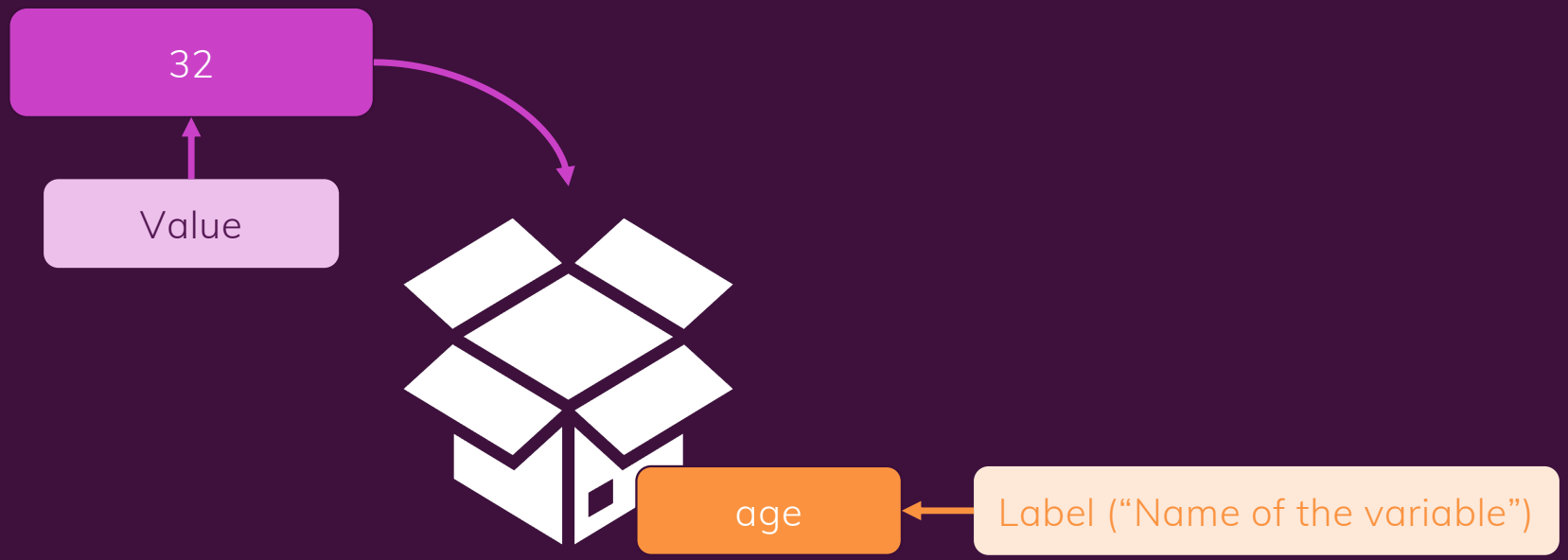
Understanding Variables



Variables are “labeled data containers”