

## Topics from <https://javascript.info/>

### Part I: The JavaScript language

#### *JavaScript Fundamentals*

- Hello, world!
- Code structure
- Variables
- Data types
- Interaction: alert, prompt, confirm
- Type Conversions
- Basic operators, maths
- Comparisons
- Conditional branching: if, '?'
- Logical operators
- Loops: while and for
- The "switch" statement
- Functions
- Function expressions
- Arrow functions, the basics

#### *Code quality*

- Coding Style
- Comments

#### *Objects: the basics*

- Objects
- Object references and copying
- Object methods, "this"
- Constructor, operator "new"

#### *Data types*

- Methods of primitives
- Numbers
- Strings
- Arrays

#### *Error handling*

- Error handling, "try...catch"

#### *Promises, async/await*

- Introduction: callbacks
- Promise
- Promises chaining
- Error handling with promises

### Part II: Browser: Document, Events, Interfaces

#### *Document*

- Browser environment, specs
- DOM tree

Walking the DOM

Searching: getElement\*, querySelector\*

*Introduction to Events*

Introduction to browser events

Bubbling and capturing

Event delegation

Browser default actions

*Forms, controls*

Form properties and methods

Focusing: focus/blur

*Document and resource loading*

Page: DOMContentLoaded, load, beforeunload, unload

Scripts: async, defer

Resource loading: onload and onerror

**Part III: Additional articles**

*Network requests*

XMLHttpRequest

*Storing data in the browser*

Cookies, document.cookie

LocalStorage, sessionStorage