LANGUAGE & FRAMEWORKS

MDN & W3Schools

Guide – Complete Beginners Start Here (Page – 10)
1. Learn Web Development
2. Getting Started with the Web
3. Installing Basic Software
4. What will your Website Look Like
5. Dealing with Files
6. HTML | CSS Basics
7. JavaScript Basics
8. Publishing your Website
9. How the Web Works

Guide – JavaScript – Dynamic Client-Side Scripting (Pages – 277 + 23)
Reference – Complete Beginners (Pages – 41)
1. JavaScript Basic (Guide Page – 1)
2. JavaScript First Steps (Guide Pages – 10)
3. JavaScript Building Blocks (Guide Pages – 8)
4. Introducing JavaScript Objects (Guide Pages – 8)
5. Asynchronous JavaScript (Guide Pages – 6)
6. Client-Side Web APIs (Guide Pages – 8)
Reference – JavaScript Guide (Pages – 18)
1. Introduction
2. Grammar and Types
3. Control Flow and Error Handling
4. Loops and Iteration
5. Functions
6. Expressions and Operators
7. Numbers and Dates
8. Text Formatting
9. Regular Expressions
10. Indexed Collections
11. Keyed Collections
12. Working with Objects
13. Using Classes
14. Using Promises
15. JavaScript Typed Arrays
16. Iterators and Generators
17. Meta Programming
18. JavaScript Modules
Reference – Intermediate (Pages – 06)
1. Client-Side JavaScript Frameworks
2. Client-Side Web APIs
3. Language Overview
4. JavaScript Data Structures
5. Equality Comparisons and Sameness
6. Closures
Reference – Advanced (Pages – 03)
7. Inheritance and Prototype Chain
8. Memory Management
9. Concurrency Model and Event Loop
Reference – Built-in Objects (Pages – 78)
1. Overview
2. Value Properties (Pages 4 – globalThis | Infinity | NaN | undefined)
3. Function Properties (Pages 11 – Eval() | isFinite() | isNan() | parseFloat())
4. Fundamental Objects (Pages 4 – Object | Function | Boolean | Symbol)
5. Error Objects (Pages 9 – Error | ReferenceError | Syntax Error | Type Error)
6. Numbers and Dates (Pages 4 – Number | BigInt | Math | Date)
7. Text Processing (Pages 2 – String | RegExp)
8. Indexed Collections (Pages 12 – Array | Int8Array | Float64Array)
9. Keyed Collections (Pages 4 – Map | Set | WeakMap | WeakSet)
10. Structured Data (Pages 5 – ArrayBuffer | DataView | Atomics | JSON | SharedArrayBuffer)
11. Managing Memory (Pages 2 – WeakRef | FinalizationRegistry)
12. Control Abstraction Objects (Pages 8 – Iterator | Promise | Generator | AsyncFunction)

13. Reflection (Page 2 – Reflect | Proxy)
14. Internationalization (Page 11 – Intl | Collator | Local | Segmenter | etc)

Reference – Expressions & Operators (Pages – 78)

1. Overview
2. Primary Expression (Pages 12 – this | literals | [] | {} | function | class | function* | async function | /ab+c/I)
3. Left-hand Expressions (Pages 7 – Property Accessor | ?. | new | new.target | import.meta | super | import())
4. Increment and Decrement (Pages 4 – A++ | A-- | ++A | --A)
5. Unary Operators (Pages 8 – Delete | Void | typeof | + | - | ~ | ! | await)
6. Arithmetic Operators (Pages 6 – ** | * | / | % | + | -)
7. Relational Operators (Pages 6 – < | > | <= | >= | instanceof | in)
8. Equality Operators (Pages 4 – == | != | === | !==)
9. Conditional (ternary) Operator (condition ? if-True : if-False)
10. Assignment Operator (Pages 17 – = | *= | /= | %= | += | -= | <<= | &= | ^= | |= | **= | &&= | ||= | ??=)
11. Yield Operators (Pages 2 – yield | yield*)
12. Spread Syntax (…obj)
13. Comma Operator (,)
14. Bitwise Shift Operators (Pages 3 – << | >> | >>>)
15. Binary Bitwise Operators (Pages 3 – & | | | ^)
16. Binary Logical Operators (Pages 3 – && | || | ??)

Reference – Statements & Declarations (Pages – 31)

1. Overview
2. Control Flow (Pages 7 – return | break | continue | throw | if..else | switch | try..catch)
3. Declaring Variables (Pages 3 – var | let | const)
4. Functions and Classes (Pages 5 – function | function* | async function | async function* | class
5. Iterations (Pages 6 – do..while | for | for..in | for..of | for await..of | while)
6. Others (Pages 8 – Empty | block | Expression Statement | Debugger | export | import | label | with)
7. Difference between statements and declarations

Reference – Functions (Pages – 08)

1. Overview
2. Arrow Function Expressions
3. Default parameters
4. Get
5. Method definitions
6. Rest parameters
7. Set
8. The arguments object

Reference – Classes (Pages – 07)

1. Overview
2. Constructor
3. Extends
4. Private properties
5. Public Class Fields
6. Static
7. Static Initialization Blocks

Reference – Misc (Pages – 7)

1. JavaScript Technologies Overview
2. Lexical Grammar
3. Iteration Protocols
4. Strict Mode
5. Template Literals
6. Trailing Commas
7. Deprecated Features

Reference – Regular Expressions

Reference – Errors

Guide – Tools and Testing (Pages – 54)

1. Client-Side Web Development Tools (Pages 6)
2. Introduction to Client-Side Frameworks (Pages 2)
3. React (Pages 7)
4. Ember (Pages 6)
5. Vue (Pages 9)
6. Svelte (Pages 8)
7. Angular (Pages 6)
8. Cross Browser Testing (Pages 9)

Guide – Server-Side Website Pro-Gramming (Pages – 3)

1. First Steps (Pages 5)
2. Django Web Framework (Python) (Pages 16)
3. Express Web Framework (NodeJS/JavaScript) (Pages 10)

Guide – HTML Structuring the Web

Tutorial

1. HTML Basics
2. Introduction to HTML (Pages 10)
3. Multimedia and Embedding (Pages 7)
4. HTML Tables (Pages 4)

Reference

1. HTML Elements
   - Basic HTML (Pages 10)
   - Formatting (Pages 39)
   - Forms and Input (Pages 12)
   - Frames (Pages 04)
   - Images (Pages 08)
   - Audio and Video (Pages 04)
   - Links (Pages 03)
   - Lists (Pages 08)
   - Tables (Pages 10)
   - Styles and Semantics (Pages 15)
   - Meta Info (Pages 04)
   - Programming (Pages 06)
2. Global Attributes (Pages 18)
3. Attributes & <input> types (Pages 60 + 28)

Guides

1. Content Categories
2. Block-level Elements
3. Inline Elements
4. Quirks Mode and Standards Mode
5. Date and Time Formats used in HTML
6. Constraint Validation
7. Microdata
8. Micro formats
9. Viewport meta tag
10. Allowing Cross-Origin use of Images and Canvas

Guide – Web Forms (Working with User Data)

1. Web Form Building blocks (Pages 11)
2. Advanced Web Form Techniques (Pages 04)

Guide – Accessibility (Make the Web Usable by Everyone (Pages -08)

Accessibility

1. Guides (Pages 10)
2. Learn Accessibility (Pages 08)
3. WCAG (Pages 07)

Accessibility ARIA

1. ARIA Guides (Pages 06)
2. ARIA States and Properties
3. ARIA Roles

Guide – Performance (Making Websites Fast and Responsive (Page 11)

Guide – MathML (Writing Mathematics with MathML (Pages 07)

Guide – Developing Games for the Web (Pages 04)

Reference – Web Technology (W3Schools)

1. Colors | Icons | Character Sets
2. SVG | Canvas | Graphics
3. JSON | AJAX | XML
4. Sass | Bootstrap | W3CSS
5. Typescript | JQuery | W3JS
6. AWS Cloud
7. Cyber Security
8. Accessibility
9. How to | Where to Start | Web Development
10. Create a Website | Create a Server

Guide – CSS Styling the Web
Tutorial
1. CSS Basics
2. CSS Building Blocks (Pages 21)
3. Styling Text (Pages 6)
4. CSS Layout (Pages 13)
Reference
1. Modules (Pages 54)
2. Properties
3. Selectors (Pages 6)
4. Combinators (Pages 7)
5. Pseudo-classes
6. Pseudo-elements
7. At-rules (Pages 18)
8. Functions
9. Types
Guides
1. Animations
2. Backgrounds and Borders (Pages 02)
3. Box Alignment (Pages 04)
4. Box Model (Pages 02)
5. Colors (Pages 06)
6. Columns (Pages 05)
7. Conditional Rules
8. Containment (Pages 03)
9. CSSOM view
10. Flexbox (Pages 07)
11. Flow Layout (Pages 05)
12. Fonts (Pages 02)
13. Grid (Pages 13)
14. Images
15. Lists and Counters (Pages 02)
16. Logical Properties (Pages 04)
17. Math Functions
18. Media Queries (Pages 04)
19. Nesting Style Rules (Pages 03)
20. Positioning
21. Scroll Snap
22. Shapes (Pages 04)
23. Text
24. Transforms & Transitions
Layout Cookbook
1. Media Objects
2. Columns
3. Center and Element
4. Sticky footers
5. Split navigation
6. Breadcrumb navigation
7. List group with badges
8. Pagination & Card
9. Grid Wrapper
Tools
1. Color Picker
2. Box Shadow Generator
3. Border Image Generator
4. Border Radius Generator

Reference – HTTP
HTTP
1. Resource and URIs (Pages 05)
2. HTTP Guide (Pages 07)
3. HTTP Security (Pages 07)
4. HTTP Access Control (CORS)
5. HTTP Authentication
6. HTTP Caching
7. HTTP Compression
8. HTTP Conditional Requests
9. HTTP Content Negotiation
10. HTTP Cookies
11. HTTP Range Requests
12. HTTP Redirects
13. HTTP Specifications
14. Permissions Policy
Reference
1. HTTP headers
2. HTTP request Methods (Pages 09)
3. HTTP Response Status Codes (Page 61)
4. CSP Directive (Page 31)
5. CORS Errors (Pages 15)
6. Permissions-Policy Directives (Pages 37)
Reference – Web APIs
1. Specifications
2. Interfaces
Reference – Web Extensions
1. Getting Started (Pages 6)
2. Concepts (Pages 10)
3. User Interface (Pages 10)
4. How to (Pages 13)
5. JavaScript APIs (Pages 49)
6. Manifest Keys (Pages 41)
7. Extension Workshop (Pages 4)
Reference – Web Technology
1. Web Technology for Developers
5. Accessibility
6. CSS: Cascading Style Sheets
7. Demos of Open Web Technologies
8. Developer Guides
9. EXSLT
2. Event Reference
10. HTML: HyperText Markup Language
11. HTTP
12. JavaScript
13. MathML
14. OpenSearch Description Format
15. Privacy On the Web
16. Progressive Web Apps
17. SVG: Scalable Vector Graphics
18. Security on the Web
19. Text Fragments
20. Tutorials
21. Web APIs
22. Web App Manifests
23. Web Media Technologies
24. Web Performance
25. WebDriver
26. XML: Extensible Markup Language
27. XPath
28. XSLT: Extensible Stylesheet Language Transformations