

HTML & CSS QUICK REFERENCE

HTML Structure

Hello World

Common Elements

Text & Headings

Heading 1

Heading 6

Paragraph text

Bold *Italic*

Links & Images

[Link text](#)
[#section">Anchor link](#section)
Description

Lists

- Item

1. First

Forms

Input Types

Name

Select & Textarea

Green ▾

Semantic HTML

<code><header></code>	Intro content or nav container
<code><nav></code>	Navigation links
<code><main></code>	Primary page content (one per page)
<code><section></code>	Thematic grouping of content
<code><article></code>	Self-contained content
<code><aside></code>	Sidebar or tangential content
<code><footer></code>	Footer for section or page
<code><figure></code>	Image/diagram with caption
<code><figcaption></code>	Caption for

HTML & CSS QUICK REFERENCE (continued)

CSS Selectors

Basic Selectors

element	p { } — all elements
.class	.card { } — class selector
#id	#main { } — id selector
*	Universal selector (all elements)

Combinators

A B	Descendant (B inside A)
A > B	Direct child only
A + B	Adjacent sibling (B right after A)
A ~ B	General sibling (B after A)

Pseudo-classes

:hover	Mouse over element
:focus	Element has focus
:first-child	First child of parent
:nth-child(n)	nth child (2n = even, odd)

Box Model

```
.box {
  margin: 10px;           /* outside */
  border: 1px solid #333; /* edge */
  padding: 15px;         /* inside */
  width: 200px;
  box-sizing: border-box; /* include pad+border */
}
```

Shorthand

margin: 10px	All sides
margin: 10px 20px	Top/bottom left/right
margin: 10px 20px 15px	Top left/right bottom
margin: 10px 20px 15px 5px	Top right bottom left

Flexbox

Container

```
.flex-container {
  display: flex;
  flex-direction: row; /* row | column */
  justify-content: center; /* main axis */
  align-items: center; /* cross axis */
  gap: 10px;
  flex-wrap: wrap;
}
```

Item Properties

flex: 1	Grow to fill available space
flex-grow: 2	Grow ratio relative to siblings
flex-shrink: 0	Don't shrink below basis
flex-basis: 200px	Initial size before grow/shrink
align-self: flex-end	Override container alignment
order: -1	Visual order (default 0)

Grid

Container

```
.grid {
  display: grid;
  grid-template-columns: 1fr 2fr 1fr;
  grid-template-rows: auto;
  gap: 10px;
}
```

Item Placement

```
.item {
  grid-column: 1 / 3; /* span col 1-2 */
  grid-row: 1 / 2;
}
/* shorthand: repeat, minmax */
grid-template-columns: repeat(3, 1fr);
grid-template-columns:
  repeat(auto-fit, minmax(200px, 1fr));
```

Positioning

static	Default flow (no offset properties)
relative	Offset from normal position
absolute	Offset from nearest positioned ancestor
fixed	Offset from viewport (stays on scroll)
sticky	Relative until scroll threshold, then fixed

Example

```
.parent { position: relative; }
.child {
  position: absolute;
  top: 0; right: 0; /* top-right corner */
}
```

Media Queries

```
/* Mobile-first: base styles for small screens */
.container { padding: 10px; }

@media (min-width: 768px) {
  .container { max-width: 720px; }
}
@media (min-width: 1024px) {
  .container { max-width: 960px; }
}
```

Common Breakpoints

480px	Small phones
768px	Tablets
1024px	Small desktops / landscape tablets
1280px	Desktops