

# HTML learning roadmap

Perfect 🚀 — let's go in-depth on **HTML Headings**.

I'll cover not just what they are, but **hidden insights** (browser defaults, SEO impact, accessibility, pitfalls, real-world use).

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## HTML Headings (`<h1>` - `<h6>`)

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### 1. What Are Headings?

Headings are HTML elements (`<h1>` to `<h6>`) used to define titles and subtitles on a webpage.

- `<h1>` → Main heading (most important).
- `<h6>` → Least important heading.

👉 They **don't just change font size**. They define a **hierarchical structure** of your content.

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### 2. Syntax

```
html
```

```
<h1>Main Title of the Page</h1>
<h2>Section Title</h2>
<h3>Subsection</h3>
```

### 3. Browser Default Behavior (insight)

- ✓ Browsers automatically add white space (margins) before and after headings.
- ✓ Headings are **block-level elements** (they start on a new line).
- ✓ Font size gets smaller from `<h1>` to `<h6>`.

👉 Example (without CSS):

- `<h1>` → 32px (approx, depends on browser)

- `<h2>` → 24px
- `<h3>` → 18.72px
- `<h4>` → 16px
- `<h5>` → 13.28px
- `<h6>` → 10.72px

(these are **user agent stylesheet defaults**, can be overridden by CSS)

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## 4. SEO & Accessibility Insights

- `<h1>` **should be unique** → It tells search engines what the page is about.
  - **Use headings hierarchically** → `<h1>` > `<h2>` > `<h3>` ... (don't jump randomly to `<h4>` ).
  - **Screen readers** use headings to **navigate content** → accessibility impact.
  - **Bad practice:** Using headings just to make text bold/big. Use CSS instead.
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## 5. Example: Blog Structure

html

```
<h1>My Travel Blog</h1>

<h2>Introduction</h2>
<p>Welcome to my travel experiences...</p>

<h2>Destinations</h2>
<h3>Paris</h3>
<p>City of lights...</p>
<h3>Tokyo</h3>
<p>Land of the rising sun...</p>

<h2>Conclusion</h2>
<p>Traveling is the best teacher...</p>
```

👉 **Hierarchy here is clear:**

- 1 main `<h1>` → blog title
- Multiple `<h2>` → sections
- `<h3>` → subsections under destinations

## 6. Styling Headings (with CSS)

html

```
<h1 style="color: navy; text-align: center;">Custom Heading</h1>
```

But in real projects, we use CSS classes:

css

```
h1 {  
  font-size: 2.5rem;  
  margin-bottom: 1rem;  
}
```

## 7. Advanced Insights

- ✓ You can have multiple `<h1>` tags in HTML5 (one per `<section>` or `<article>`), but SEO experts still recommend only one `<h1>` per page for clarity.
- ✓ Headings are not just for size — they represent a **document outline** (like chapters in a book).
- ✓ Assistive technologies let users skip directly to headings → improves accessibility.
- ✗ Don't skip heading levels (e.g., `<h1>` → `<h4>` without `<h2>` / `<h3>`).

## 8. Mini Project: Recipe Page

html

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <title>Recipe Page</title>  
</head>  
<body>  
  <h1>Chocolate Cake Recipe</h1>
```

```
<h2>Ingredients</h2>
<h3>For the Cake</h3>
<ul>
  <li>2 cups flour</li>
  <li>1 cup sugar</li>
</ul>
<h3>For the Frosting</h3>
<ul>
  <li>200g chocolate</li>
  <li>100g butter</li>
</ul>

<h2>Instructions</h2>
<ol>
  <li>Mix dry ingredients.</li>
  <li>Bake at 180°C for 30 mins.</li>
</ol>
</body>
</html>
```

👉 This structure is **SEO-friendly, readable, and accessible**.

## ✓ Key Takeaways

- Headings = **semantic structure**, not just big fonts.
- Browsers **add automatic margins + new lines**.
- **<h1>** is **the most important** (SEO + accessibility).
- Always use headings **hierarchically**.

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Would you like me to go one step deeper and show you how **HTML Headings interact with screen readers & SEO crawlers**, or move on to the next topic → **Paragraphs**?