

LAYOUT BASICS

Definitions

Span

- » A generic wrapper for any inline content.
- » Spans are generally used to group small sections of content for styling purposes.

Div

- » A generic wrapper for any block content.
- » Divs typically wrap big sections of content on a page. Use semantic elements over divs whenever possible.

Header

- » These elements kick off your page with introductory content like logos, headlines, titles, and links.

Footer

- » This element wraps the content at the bottom of your web page.
- » This element often contains copyright information, links to career pages, contact information, terms of use, etc.

Main

- » These elements contain all the primary content — articles, blog posts, images, videos, etc. — between the **<header>** and the **<footer>**.

Aside

- » These elements contain all the secondary content between the **<header>** and **<footer>**, including supplemental information like recommended stories or archived blog links.

Nav

- » Any navigational links that help users get around your page should be wrapped in **<nav>** tags.

Section

- » These elements are used to group the content of a page into related chunks.

Article

- » These elements are used to contain standalone blocks of text, such as news articles, blog posts, etc.

Box Model

- » Every HTML element on the page is in a box, and the box model dictates what the element will look like.
- » The model consists of the content, padding, border, and margin.

- » Here's a diagram to help you remember the box model.\

Box model

- **Content**
 - The text and images that are included within any element's opening and closing tags.
- **Padding**
 - The area outside the content, but within the border.

- Padding will extend the background-color and contribute to the overall width of the object.
- **Border**
- A line of variable thickness, color, and style that goes around the padding and content.
- **Margin**
- The area outside of the border that separates the object from other objects around it.
- Margin has a transparent background-color.

Inline Elements

- » HTML elements that take up the width of their contents and do not begin with new line.
- » They cannot have height or width assigned.

Block Elements

- » HTML elements that break to a new line before and after the element and they take up the width of their containers by default (this is often the browser window itself).
- » They can have padding, margin, height, and width assigned.

Exercise Solutions

The Box Model

1. Set the background-color of body to #333 and the background-color of div to #c0dec5`css body { background-color: #333; } div { background-color: #c0dec5; }`
2. Add a margin of 64px on all four sides of the divs content (outside the pale blue box).`css div { background: #c0dec5; margin: 64px; }`
3. Set the divs top padding to 32px, a left and right padding of 48px, and no padding on the bottom`css div { background: #c0dec5; margin: 64px; padding: 32px 48px 0; }`
4. Create a rule for span and set these three property-value pairs: a font-variant of smallcaps, a font-family of Tahoma, sans-serif, and a letter-spacing of .25em. `css span { font-variant: small-caps; font-family: Tahoma, sans-serif; letter-spacing: .25em; }`
5. Set the spans padding to 0 3px. Set its background-color to rgb(100,150,150).`css span { font-variant: small-caps; font-family: Tahoma, sans-serif; letter-spacing: .25em; padding: 0 3px; background-color: rgb(100,150,150); }`
6. On second thought, that color is a little dark. Let's practice with RGB and alpha and make it 50% translucent. Change the spans background-color from rgb to rgba and add a .5 alpha. `css span { font-variant: small-caps; font-family: Tahoma, sans-serif; letter-spacing: .25em; padding: 0 3px; background-color: rgba(100,150,150,.5); }`
7. In your HTML, the second p tag has a class attribute named source. Let's right-align that paragraph! Add the new style to your CSS. `css .source { text-align: right; }`

Header, Footer, Nav

Section 1: Content and Page Structure

1) Adding a Header

```
<body>
<header>
  <h1>ELK Web Design</h1>
  <nav>
    <a href="">Work</a>
    <a href="">About</a>
    <a href="">Contact</a>
  </nav>
  
</header>
</body>
```

2) Adding Sections

```
<body>
<header>
  <h1>ELK Web Design</h1>
  <nav>
    <a href="">Work</a>
    <a href="">About</a>
    <a href="">Contact</a>
  </nav>
  
</header>
<section>
  <h2>Who we are</h2>
  <p>ELK provides clean and innovative sites for small businesses, artists,
  and professionals.
</section>
<section>
  <h2>How we do it</h2>
  <ul>
    <li>HTML</li>
    <li>CSS</li>
    <li>Responsive</li>
    <li>Visual Design</li>
  </ul>
</section>
</body>
```

3) Adding a Footer

```
<body>
<header>
  <h1>ELK Web Design</h1>
  <nav>
    <a href="">Work</a>
    <a href="">About</a>
    <a href="">Contact</a>
  </nav>
  
</header>
<section>
  <h2>Who we are</h2>
  <p>ELK provides clean and innovative sites for small businesses, artists,
  and professionals.
</section>
<section>
  <h2>How we do it</h2>
  <ul>
    <li>HTML</li>
    <li>CSS</li>
    <li>Responsive</li>
    <li>Visual Design</li>
  </ul>
</section>
<footer>&copy; 2015 ELK</footer>
```

</body>

Styling Content

1. Apply the following styles to the body: Set its font-size to 18px and the font-family to Arial.**css body { font-size: 18px; font-family: 'Arial', sans-serif; }**
2. Write a rule for h1, and set its font-size to 36px.**css h1 { font-size: 36px; }**
3. Create a rule for h2, and set its font-size to 27px.**css h2 { font-size: 27px; }**
4. Use only one padding declaration to give h2 a top and bottom padding of 14px.**css h2 { font-size: 27px; padding: 14px 0; }**
5. Create a rule for both h1, h2 and set its text-transform property to uppercase.**css h1, h2 { text-transform: uppercase; }**
6. Let's keep styling both headings. We'll use CSS shorthand to "underline" each one with a border-bottom. Give h1, h2 a border-bottom property that's 4px thick, solid, and black. **css h1, h2 { text-transform: uppercase; border-bottom: 4px solid black; }**
7. Set h1, h2's display to inline-block.**css h1, h2 { text-transform: uppercase; border-bottom: 4px solid black; display: inline-block; }**
8. Create a style for images**css img { display: block; }**
9. Center all images on the page horizontally by setting the img margin to 0 auto.**css img { display: block; margin: 0 auto; }**
10. Create a ul style, and set its list-style to none. Set its margin to 0 and its padding to 0**css ul { list-style: none; margin: 0; padding: 0; }**
11. Create a footer style in your CSS, and center align its text.**css footer { text-align: center; }**
12. Set the footer padding to 18px 0.**css footer { text-align: center; padding: 18px 0; }**