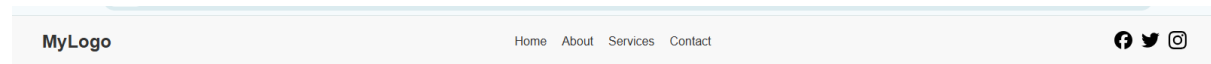


Here's the **full HTML + CSS code** to create a responsive header with a **logo, navigation menu, and social media icons** using **Flexbox**.



## ✓ Full Code (HTML + CSS):-

### Step 1 create header.css file code:-

```
/* Basic Reset */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: Arial, sans-serif;
  background-color: #fff;
}

header {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 20px 40px;
  background-color: #f8f8f8;
  border-bottom: 1px solid #ddd;
}

/* Logo */
.logo {
  font-size: 24px;
  font-weight: bold;
  color: #333;
}

/* Menu */
.menu {
  display: flex;
  gap: 20px;
}

.menu a {
  text-decoration: none;
  color: #333;
  font-weight: 500;
  transition: color 0.3s ease;
}

.menu a:hover {
  color: #007BFF;
}

/* Social Icons */
```

```

.social-icons {
  display: flex;
  gap: 12px;
}

.social-icons a img {
  width: 24px;
  height: 24px;
  transition: opacity 0.3s ease;
}

.social-icons a:hover img {
  opacity: 0.7;
}

/* Responsive */
@media (max-width: 768px) {
  header {
    flex-direction: column;
    align-items: flex-start;
    gap: 15px;
  }

  .menu {
    flex-wrap: wrap;
  }
}

```

## Step 2:- create header.html file code:-

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Flex Header Example</title>
  <link rel="stylesheet" href="header.css">
</head>
<body>

  <header>
    <div class="logo">MyLogo</div>

    <nav class="menu">
      <a href="#">Home</a>
      <a href="#">About</a>
      <a href="#">Services</a>
      <a href="#">Contact</a>
    </nav>




    <div class="social-icons">
      <a href="#"></a>
      <a href="#"></a>
      <a href="#"></a>
    </div>
  </header>

```

```
</body>
</html>
```

---

## Notes:

-  The social media icons use **SVGs** from Simple Icons CDN.
-  The layout is responsive for small screens (`max-width: 768px`).
-  You can replace "MyLogo" with an image like:
- ``
- You can also enhance it with a hamburger menu for mobile if needed — just ask!

Absolutely! Below is a **line-by-line explanation** of the HTML and CSS used in the Flexbox-based header containing a **logo**, **menu**, and **social icons**.

---

## Full Code (with Explanation)

---

### HTML Part:

```
<!DOCTYPE html>
```

- Declares the document as an HTML5 document.

```
<html lang="en">
```

- Starts the HTML document and sets the language to English.

```
<head>
```

- Contains metadata and links for the page (not visible content).

```
<meta charset="UTF-8">
```

- Sets the character encoding to UTF-8, supporting most characters.

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

- Ensures responsive behavior on mobile devices (scales layout properly).

```
<title>Flex Header Example</title>
```

- Sets the title of the page (shown on browser tab).

<style>

- Begins the internal CSS block.
- 

## ◆ CSS Part (with Comments)

```
* {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
}
```

- Resets default browser styles.
- `box-sizing: border-box` ensures padding and borders are included in width/height calculations.

```
body {  
  font-family: Arial, sans-serif;  
  background-color: #fff;  
}
```

- Sets the font for the page and a white background.

```
header {  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
  padding: 20px 40px;  
  background-color: #f8f8f8;  
  border-bottom: 1px solid #ddd;  
}
```

- `display: flex`: makes the header a flex container.
  - `justify-content: space-between`: spreads logo, menu, and icons with space in between.
  - `align-items: center`: vertically centers items.
  - `padding`: adds spacing inside the header.
  - `background-color`: light gray background.
  - `border-bottom`: subtle line at the bottom.
- 

## ◆ Logo Section

```
.logo {  
  font-size: 24px;  
  font-weight: bold;  
  color: #333;  
}
```

- Styles the logo text.
  - `font-size: 24px`: makes it large.
  - `font-weight: bold`: makes it bold.
  - `color: #333`: dark gray color.
- 

## ◆ Menu Section

```
.menu {  
  display: flex;  
  gap: 20px;  
}
```

- Makes the menu horizontal using `flex`.
- `gap: 20px`: adds spacing between menu links.

```
.menu a {  
  text-decoration: none;  
  color: #333;  
  font-weight: 500;  
  transition: color 0.3s ease;  
}
```

```
.menu a:hover {  
  color: #007BFF;  
}
```

- Removes underline (`text-decoration: none`).
  - Adds color and transition effect for hover.
  - On hover, links turn blue (`#007BFF`).
- 

## ◆ Social Icons Section

```
.social-icons {  
  display: flex;  
  gap: 12px;  
}
```

- Horizontal layout for social icons with spacing (`gap`).

```
.social-icons a img {  
  width: 24px;  
  height: 24px;  
  transition: opacity 0.3s ease;  
}
```

```
.social-icons a:hover img {  
  opacity: 0.7;  
}
```

- Icon images are 24x24 pixels.

- On hover, icon becomes slightly transparent.
- 

## ◆ Responsive Design

```
@media (max-width: 768px) {  
  header {  
    flex-direction: column;  
    align-items: flex-start;  
    gap: 15px;  
  }  
  
  .menu {  
    flex-wrap: wrap;  
  }  
}
```

- **Media Query** for screens smaller than 768px (tablets and phones).
  - `flex-direction: column:` stacks the logo, menu, and icons vertically.
  - `align-items: flex-start:` left-aligns items.
  - `flex-wrap:` allows menu items to wrap if they don't fit in one line.
- 

## ◆ Body Content

```
</style>  
</head>  
<body>
```

- Ends the head section and begins the visible body.

```
<header>  
  <div class="logo">MyLogo</div>
```

- **Main header tag.**
- Contains the logo text `MyLogo`.

```
<nav class="menu">  
  <a href="#">Home</a>  
  <a href="#">About</a>  
  <a href="#">Services</a>  
  <a href="#">Contact</a>  
</nav>
```

- **Navigation section with 4 links.**

```
<div class="social-icons">  
  <a href="#"></a>  
  <a href="#"></a>
```

```
<a href="#"></a>  
</div>  
</header>
```

- A group of social media icons.
- Uses SVG icons from a CDN (replace with your own if needed).

```
</body>  
</html>
```

- Closes the body and HTML document.

---

## ✓ Summary

Section	Purpose
<code>display: flex</code>	Align logo, menu, and icons in a row
<code>space-between</code>	Spread items across the header
<code>gap</code>	Add spacing between elements
<code>media query</code>	Make layout responsive on small screens