

Experiment-05

Develop HTML page named as “newspaper.html” having variety of HTML semantic elements with background colors, text-colors & size for figure, table, aside, section, article, header, footer... etc

Program:

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>The Daily Chronicle</title>
```

```
  <style>
```

```
    body {
```

```
      font-family: 'Georgia', serif;
```

```
      line-height: 1.6;
```

```
      color: #333;
```

```
      max-width: 1200px;
```

```
      margin: 0 auto;
```

```
      padding: 20px;
```

```
background-color: #f4f4f4;

}

header {

background-color: #1a1a1a;

color: #fff;

padding: 20px;

text-align: center;

}

header h1 {

margin: 0;

font-size: 2.5em;

}

nav {

background-color: #333;

color: #fff;

padding: 10px;

}

nav ul {

list-style-type: none;
```

```
padding: 0;

margin: 0;

display: flex;

justify-content: center;

}

nav ul li {

margin: 0 10px;

}

nav ul li a {

color: #fff;

text-decoration: none;

}

main {

display: flex;

margin-top: 20px;

}

section {

flex: 2;

margin-right: 20px;
```

```
}  
  
article {  
  
    background-color: #fff;  
  
    padding: 20px;  
  
    margin-bottom: 20px;  
  
    box-shadow: 0 0 10px rgba(0,0,0,0.1);  
  
}  
  
article h2 {  
  
    color: #1a1a1a;  
  
    font-size: 1.8em;  
  
}  
  
aside {  
  
    flex: 1;  
  
    background-color: #e6e6e6;  
  
    padding: 20px;  
  
    box-shadow: 0 0 10px rgba(0,0,0,0.1);  
  
}  
  
figure {  
  
    margin: 0;
```

```
    text-align: center;

}

figure img {

    max-width: 100%;

    height: auto;

}

figcaption {

    font-style: italic;

    color: #666;

    font-size: 0.9em;

}

table {

    width: 100%;

    border-collapse: collapse;

    margin-bottom: 20px;

}

th, td {

    border: 1px solid #ddd;

    padding: 10px;
```

```
        text-align: left;

    }

    th {

        background-color: #f2f2f2;

    }

    footer {

        background-color: #1a1a1a;

        color: #fff;

        text-align: center;

        padding: 10px;

        margin-top: 20px;

    }

</style>

</head>

<body>

    <header>

        <h1>The Daily Chronicle</h1>

    </header>
```

<nav>

Home

Politics

Technology

Sports

Entertainment

</nav>

<main>

<section>

<article>

<h2>Breaking News: Major Technological Breakthrough</h2>

<p>Scientists have announced a groundbreaking discovery in the field of quantum computing, potentially revolutionizing the tech industry.</p>

<figure>

<img

**src="https://www.cnet.com/a/img/resize/c7cb26e927bebaa784fb55a01e71d7fec
b15d2e3/hub/2019/06/26/3f76e99d-8055-46f3-8f27-558ee276b665/20180405-**

ibm-q-quantum-computer-02.jpg?auto=webp&fit=crop&height=675&width=1200" alt="Quantum Computer">

<figcaption>A state-of-the-art quantum computer at the research facility</figcaption>

</figure>

</article>

<article>

<h2>Local Sports Team Wins Championship</h2>

<p>In a thrilling match, our local team secured victory in the national championship, bringing pride to our city.</p>

<table>

<tr>

<th>Team</th>

<th>Score</th>

</tr>

<tr>

<td>Local Heroes</td>

<td>3</td>

</tr>

<tr>

<td>Visiting Challengers</td>

<td>2</td>

</tr>

</table>

</article>

</section>

<aside>

<h3>Weather Update</h3>

<p>Expect sunny skies with a high of 75°F (24°C) today.</p>

<h3>Upcoming Events</h3>

City Festival - This Weekend

Tech Conference - Next Month

Charity Run - In Two Weeks

`</aside>`

`</main>`

`<footer>`

`<p>© 2023 The Daily Chronicle. All rights reserved.</p>`

`</footer>`

`</body>`

`</html>`

Explanation

Step 1: Document Structure

The document uses the standard HTML5 structure with `<!DOCTYPE html>` declaration.

The `<head>` section contains metadata, title, and embedded CSS styles.

The `<body>` contains the main content of the webpage.

Step 2: Styling (CSS)

The style section defines the layout and appearance of the page.

It uses a responsive design with max-width and flexbox for layout.

Specific styles are applied to different sections like header, nav, main content, and footer.

The color scheme is primarily black, white, and shades of gray, typical for a newspaper.

Step 3: Header and Navigation

The <header> contains the newspaper title "The Daily Chronicle".

A <nav> section provides links to different sections of the newspaper.

Step 4: Main Content

The <main> section is divided into two parts:

<section>: Contains the main articles

- Two articles are present, each in its own <article> tag
- The first article includes an image with a caption using <figure> and <figcaption>
- The second article includes a table showing sports scores

<aside>: Contains supplementary information

- Weather update
- List of upcoming events

Step 5: Articles

First article: "Breaking News: Major Technological Breakthrough"

Includes an image of a quantum computer

Second article: "Local Sports Team Wins Championship"

Includes a table with the match score

Step 6: Aside Content

Weather update

List of upcoming events

Step 7: Footer

Contains copyright information for the newspaper.

Key Features:

Responsive design: The layout adjusts based on screen size.

Semantic HTML: Uses appropriate tags like <article>, <aside>, <figure>, etc.

Flexbox layout: Used for the main content area to create columns.

Styled tables: Used in the sports article to display scores.

External image: Incorporated in the first article.

Navigation menu: Provides links to different sections of the newspaper.

This webpage demonstrates several important web design concepts:

Layout structuring using semantic HTML5 elements

CSS styling for a clean, newspaper-like appearance

Responsive design principles

Integration of various content types (text, images, tables)

Use of flexbox for modern layout techniques.