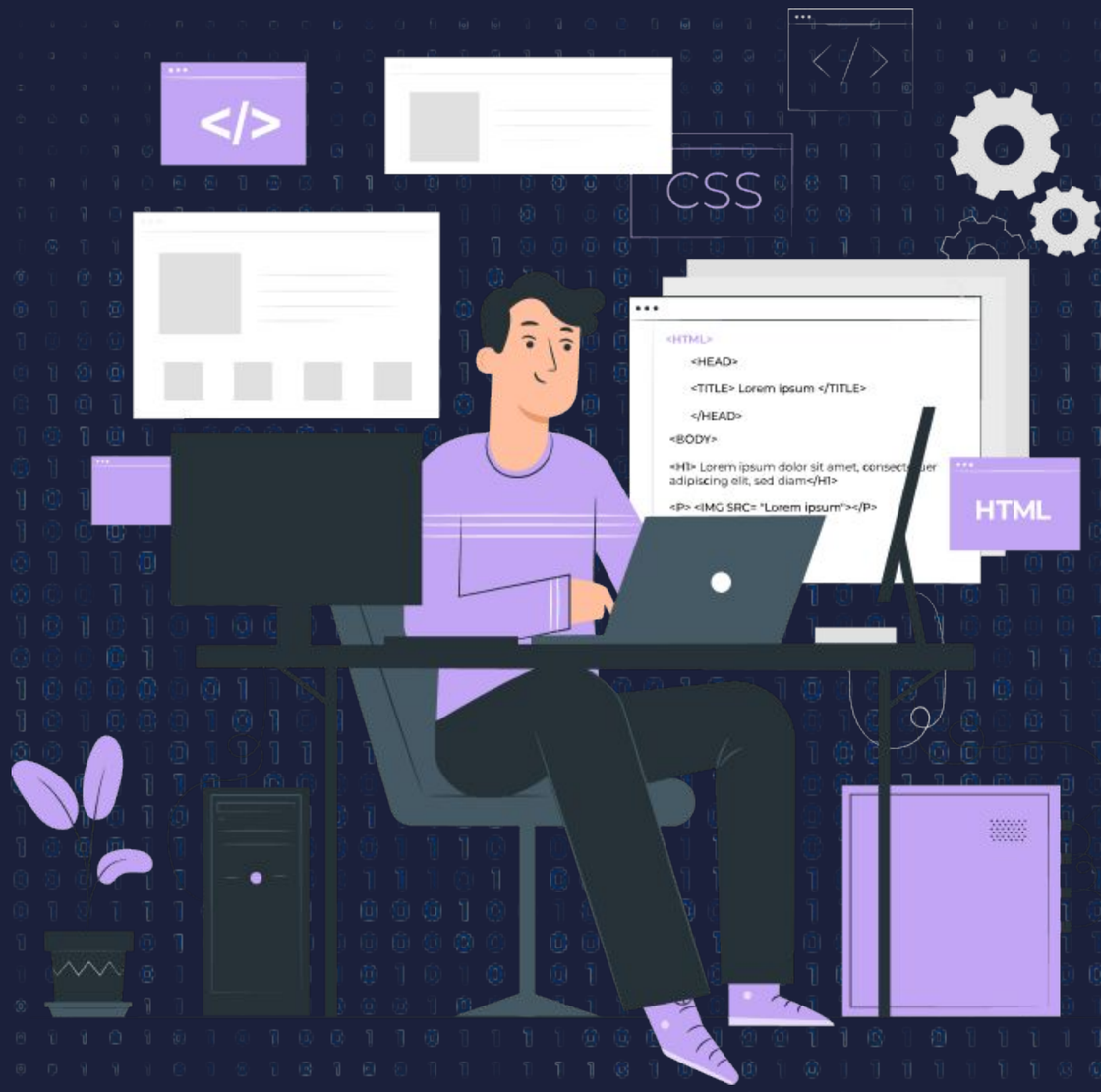
PW SKILLS

Semantics and its Importance



Text content Accessibility

The **screen reader reads** each content out as you progress through the content, notifying you **what is heading** and **what is a paragraph**.

```
<h2>My subheading</h2>
<p>
  This is the first subsection of my document. I'd love people to be able to find this content!
</p>
<h2>My 2nd subheading</h2>
<p>
  This is the second subsection of my content, which I think is more interesting than the last one.
</p>
```

Topics

- Introduction to semantic tag
- Understanding semantic tags with example
- Benefits of semantic tags

Introduction to Semantic tags

Give meaning to the content of a web page.

Making it **Easier for Search Engines, Screen Readers** and others tools **to Understand the Page** and its content.

Example: <header> tag, <article> tag, <aside> tag and etc.

Understanding Semantic Elements

To understand semantics, we will build a web page using newly introduced structural semantic elements in HTML.

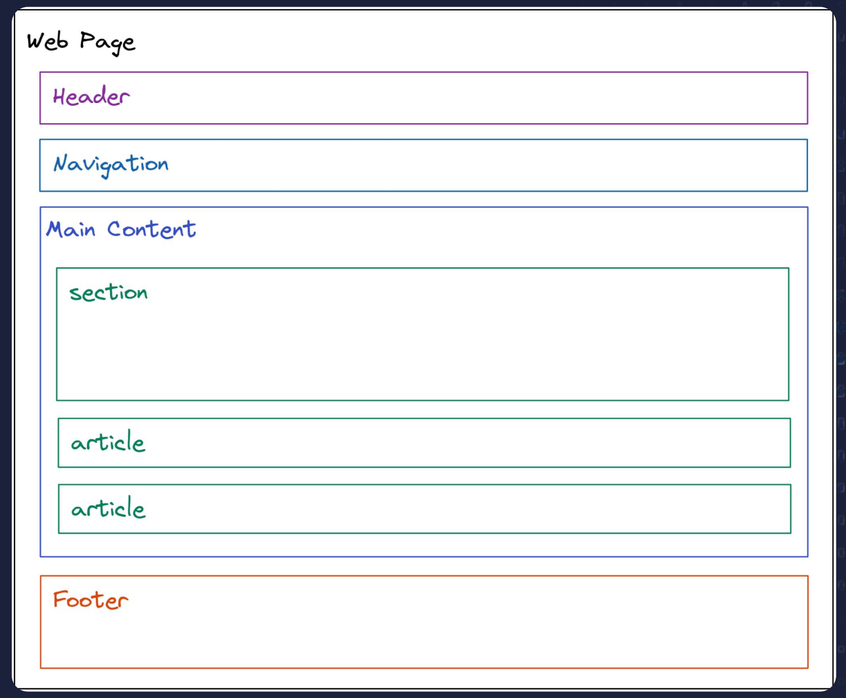
1. Header <header>
2. Navigation <nav>
3. Main Content <main>
4. Sections <section>
5. Articles <articles>
6. Footer <footer>
7. Heading <h1>..<h6>
8. Para <p>

Develop a web page using Semantic Elements

Unlike traditional HTML tags, semantic tags focus on the meaning of the content, rather than on the visual appearance.

Like in the right example, the **<header>** tag is a semantic tag indicating that the header section of a page begins.

Similarly other tags **<article>, <section>, <footer>** etc. have their semantic meaning.



Let’s build this web page part by part

Create header

```
<header>
    <h1>Page Header</h1>
</header>
```

<header> specifies header for a document or any section

Adding Navigation

```
<header> ... </header>

<nav>
   <ul>
     <li><a href="#">Home</a></li>
     <li><a href="#">PW Lab</a></li>
     <li><a href="#">Courses</a></li>
     <li><a href="#">Contact</a></li>
   </ul>
</nav>
```

<nav> Defines navigation links

Page Header

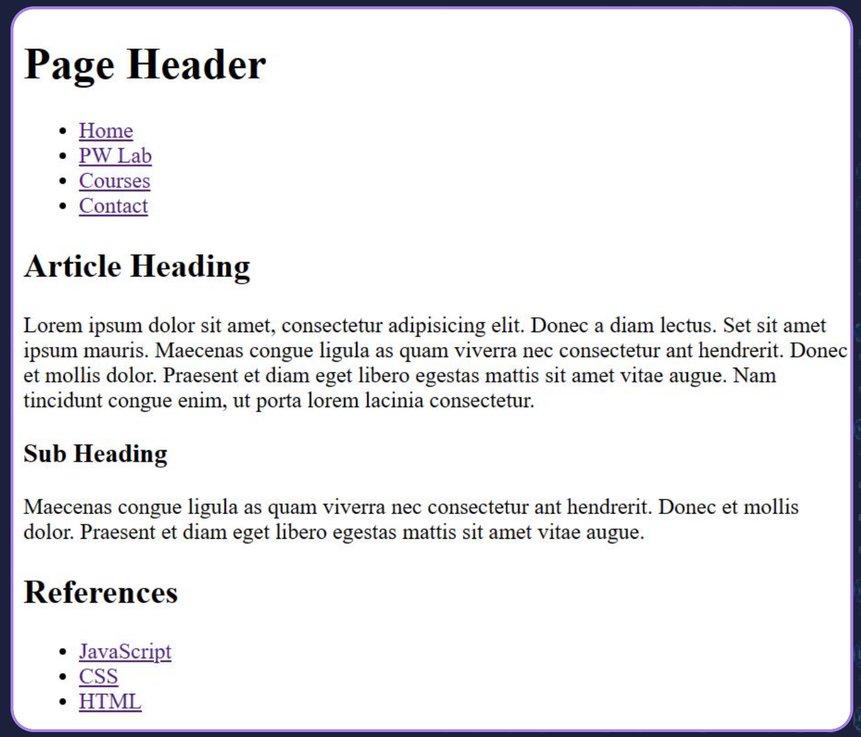
- Home
- PW Lab
- Courses
- Contact

Adding Main content

```
<header> ... </header>
<nav> ... </nav>

<main>
   <article>
     <h2>Article Heading</h2>
     <p> ... </p>
       <h3>Sub Heading</h3>
     <p> ... </p>
   </article>

   <section>
     <h2>References</h2>
       <ul> ... </ul>
   </section>
</main>
```



<main> defines main content and **<article>, <section>** defines a part of main content with paragraph **<p>** and headings **<h1>**.

Adding Footer

```
<header> ... </header>
<nav> ... </nav>
<main> ... </main>

<footer>
   <p>
      ©Copyright 2089 by
      XYZ Company.
      All rights reversed.
    </p>
</footer>
```

Page Header

- Home
- PW Lab
- Courses
- Contact

Article Heading

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Donec a diam lectus. Set sit amet ipsum mauris. Maecenas congue ligula as quam viverra nec consectetur ant hendrerit. Donec et mollis dolor. Praesent et diam eget libero egestas mattis sit amet vitae augue. Nam tincidunt congue enim, ut porta lorem lacinia consectetur.

Sub Heading

Maecenas congue ligula as quam viverra nec consectetur ant hendrerit. Donec et mollis dolor. Praesent et diam eget libero egestas mattis sit amet vitae augue.

References

- JavaScript
- CSS
- HTML

©Copyright 2089 by XYZ Company. All rights reversed.

<footer> defines a footer for a document or section

Benefits of using Semantic tags

- Add additional information about the document.
- Helps screen readers to understand the content better.
- Provide **Search Engine Optimization**.

PW SKILLS

THANK YOU