

Semantic HTML Review

Importance of Semantic HTML

- **Structural hierarchy for heading elements:** It is important to use the correct heading element to maintain the structural hierarchy of the content. The `h1` element is the highest level of heading and the `h6` element is the lowest level of heading.
- **Presentational HTML elements:** Elements that define the appearance of content. Ex. the deprecated `center`, `big` and `font` elements.
- **Semantic HTML elements:** Elements that hold meaning and structure. Ex. `header`, `nav`, `figure`.

Semantic HTML Elements

- **Header element:** used to define the header of a document or section.
- **Main element:** used to contain the main content of the web page.
- **Navigation Section (`nav`) element:** represents a section with navigation links.
- **Figure element:** used to contain illustrations and diagrams.
- **Emphasis (`em`) element:** marks text that has stress emphasis.

▼ Example Code

```
<p>
  Never give up on <em>your</em> dreams.
</p>
```

- **Idiomatic Text (`i`) element:** used for highlighting alternative voice or mood, idiomatic terms from another language, technical terms, and thoughts.

▼ Example Code

```
<p>
  There is a certain <i lang="fr">je ne sais quoi</i> in the air.
</p>
```

The `lang` attribute inside the open `i` tag is used to specify the language of the content. In this case, the language would be French. The `i` element does not indicate if the text is important or not, it only shows that it's somehow different from the surrounding text.

- **Strong Importance (`strong`) element:** marks text that has strong importance.

▼ Example Code

```
<p>
  <strong>Warning:</strong> This product may cause allergic reaction
</p>
```

- **Bring Attention To (`b`) element:** used to bring attention to text that is not important for the meaning of the content. It's commonly used to highlight keywords in summaries or product names in reviews.

▼ Example Code

```
<p>
  We tested several products, including the <b>SuperSound 3000</b> f
</p>
```

- **Description List (`dl`) element:** used to represent a list of term-description groupings.
- **Description Term (`dt`) element:** used to represent the term being defined.
- **Description Details (`dd`) element:** used to represent the description of the term.

▼ Example Code

```
<dl>
  <dt>HTML</dt>
  <dd>HyperText Markup Language</dd>
  <dt>CSS</dt>
  <dd>Cascading Style Sheets</dd>
</dl>
```

- **Block Quotation (`blockquote`) element:** used to represent a section that is quoted from another source. This element has a `cite` attribute. The value of the `cite` attribute is the URL of the source.

▼ Example Code

```
<blockquote cite="https://www.freecodecamp.org/news/learn-to-code-bo
  "Can you imagine what it would be like to be a successful develop
</blockquote>
```

- **Citation (`cite`) element:** used to attribute the source of the referenced work visually. Marks up the title of the reference.

▼ Example Code

```
<div>
  <blockquote cite="https://www.freecodecamp.org/news/learn-to-code-
    "Can you imagine what it would be like to be a successful develo
  </blockquote>
  <p>
    -Quincy Larson, <cite>How to learn to Code and Get a Developer J
  </p>
</div>
```

- Inline Quotation (`<q>`) element: used to represent a short inline quotation.

▼ Example Code

```
<p>
  As Quincy Larson said,
  <q cite="https://www.freecodecamp.org/news/learn-to-code-book/">
    Momentum is everything.
  </q>
</p>
```

- Abbreviation (`<abbr>`) element: used to represent an abbreviation or acronym. To help users understand what the abbreviation or acronym is, you can show its full form, a human readable description, with the `<title>` attribute.

▼ Example Code

```
<p>
  <abbr title="HyperText Markup Language">HTML</abbr> is the foundat
</p>
```

- Contact Address (`<address>`) element: used to represent the contact information.
- (Date) Time (`<time>`) element: used to represent a date and/or time. The `<datetime>` attribute is used to translate dates and times into a machine-readable format.

▼ Example Code

```
<p>
  The reservations are for the <time datetime="20:00">20:00 </time>
</p>
```

- ISO 8601 Date (`<datetime>`) attribute: used to represent dates and times in a machine-readable format. The standard format is `YYYY-MM-DDThh:mm:ss`, with the capital `T` being a separator between the date and time.
- Superscript (`<sup>`) element: used to represent superscript text. Common use cases for the `<sup>` element would include exponents, superior lettering and ordinal numbers.

▼ Example Code

```
<p>
  2<sup>2</sup> (2 squared) is 4.
</p>
```

- Subscript (`<sub>`) element: used to represent subscript text. Common uses cases for the subscript element include chemical formulas, foot notes, and variable subscripts.

▼ Example Code

```
<p>
  CO<sub>2</sub>
</p>
```

- Inline Code (`<code>`) element: used to represent a fragment of computer code.
- Preformatted Text (`<pre>`) element: represents preformatted text

▼ Example Code

```
<pre>
<code>
  body {
    color: red;
  }
</code>
</pre>
```

- Unarticulated Annotation (`<u>`) element: used to represent a span of inline text which should be rendered in a way that indicates that it has a non-textual annotation.

▼ Example Code

```
<p>
  You can use the unarticulated annotation element to highlight
  <u>inccccort</u> <u>splng</u> <u>issse</u>.
</p>
```

- Ruby Annotation (`<ruby>`) element: used for annotating text with pronunciation or meaning explanations. An example usage is for East Asian typography.
- Ruby fallback parenthesis (`<rp>`) element: used as a fallback for browsers lacking support for displaying ruby annotations.
- Ruby text (`<rt>`) element: used to indicate text for the ruby annotation. Usually used for pronunciation, or translation details in East Asian typography.

▼ Example Code

```
<ruby>
  明日 <rp>(</rp><rt>Ashita</rt></rp></rp>
</ruby>
```

- Strikethrough (`<s>`) element: used to represent content that is no longer accurate or relevant.

▼ Example Code

```
<p>
  <s>Tomorrow's hike will be meeting at noon.</s>
</p>
<p>
```

Due to unforeseen weather conditions, the hike has been cancelled.

</p>

Assignment

☐ Review the Semantic HTML topics and concepts.

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