HTML

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HTML

HTML document consists of series of elements



Text content can be empty – empty element Element may contain other elements – nested element

All HTML pages should have Page Title

Head element contains info about the page
Does not appear on the browser window
Title will be seen on the tab/title bar, bookmark

Paragraph

Does not appear as it is typed
Browsers ignore additional white spaces
 - italics
 - bold

- line break; don't overuse

Paragraph

Use tag for separate paragraphs

Heading

h1 to h6 are for headings
Use h1 only once
h2-h6 can be used many times, but follow hierarchical order

Lists

Unordered list - bulleted
Ordered list - numbered
Use to list items
Lists can be nested

Link

```
<h2>Where to find the tutorial</h2>
<a href="http://www.htmldog.com">HTML Dog</a>
```

Anchor tag <a> used to create link

The link can be absolute or relative to the current page

Link could be to any resource on the web

Link can be somewhere in the same page. Use id attribute

```
<h2 id="moss">Moss</h2>
<a href="#moss">Go to moss</a>
```

Images

```
<img src="http://www.htmldog.com/badge1.gif" width="120" height="90"
alt="HTML Dog">
```

src can be absolute or relative to the current page

Width and height attributes are necessary

Otherwise, browser will calculate the size while the images loads

Which makes the layout of the page to jump while loading

Alt attribute is for accessibility

Image can be turned into a link

Div and Span

```
<div id="scissors">
     This is <span class="paper">crazy</span>
</div>
```

Unlike other tags, span and div apply no meaning Used to group chunk of html Mostly with attributes such as class and/or id div is a block; span is inline

Table

```
>
    Row 1, cell 1
    Row 1, cell 2
    Row 1, cell 3
  Row 2, cell 1
    Row 2, cell 2
    Row 2, cell 3
```

The table element defines the table

The tr element defines a table row

The td element defines a data cell These must be enclosed in tr tags

Table – heading and span

defines a header cell. Must be
enclosed within

colspan spans across columns

rowspan across rows

```
Column 1 heading
    Column 2 heading
    Column 3 heading
  Row 2, cell 1
    Row 2, cell 2, also spanning Row 2, cell 3
  Row 3, cell 1, also spanning Row 4, cell 1
    Row 3, cell 2
    Row 3, cell 3
  >
    Row 4, cell 2
    Row 4, cell 3
```

Web forms

One of the main points of interaction between a user and a webApp Forms allow users to enter data,

- generally sent to a web server for processing and storage
- Or used on the client-side to immediately update the interface in some way

Forms – collect data from the user

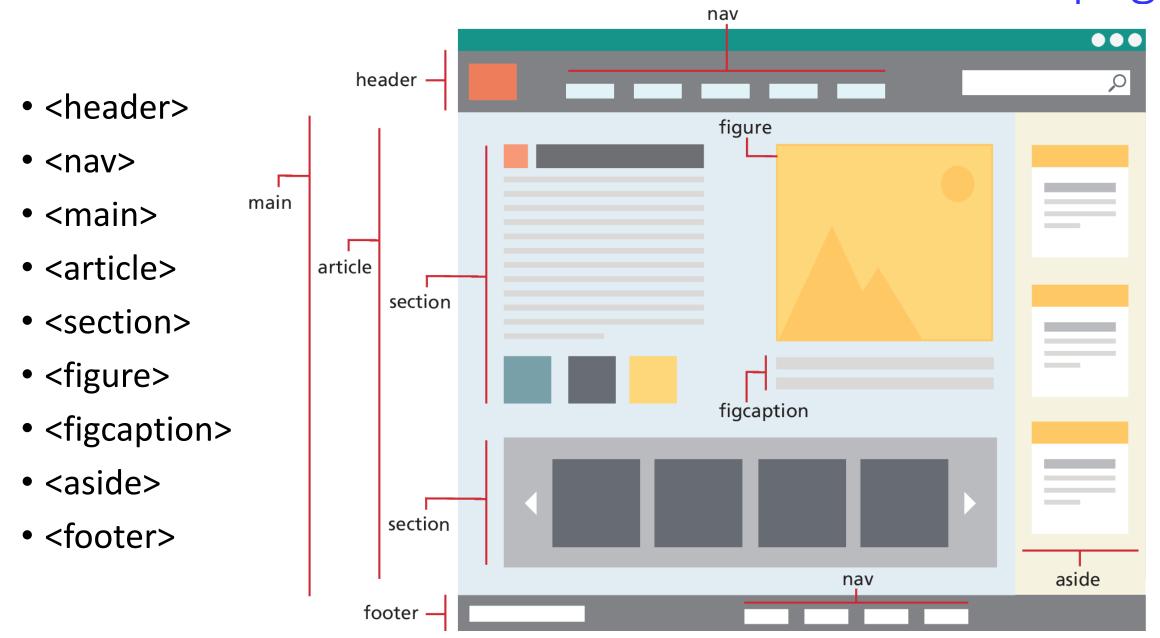
<textarea rows="5" cols="20">Large multiline textbox</textarea>

```
<form action="destination" method="post">
<input type="text" value="enter here"> or <input> is a standard textbox
<input type="password"> is like the textbox, but typed characters are hidden
<input type="checkbox" checked> is a checkbox, toggled on and off
<input type="radio"> is like a checkbox but can only select one radio button in a
group. This can also have a checked attribute
<input type="submit" value="submit"> is a button that when selected will submit the
form
```

Select – creates a dropdown list

Value of selected option is sent when the form is submitted Text between <option> tag will be sent unless value attribute is specified

HTML 5 Semantic elements to structure a page

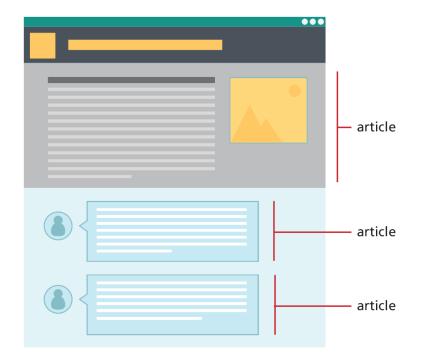


Using semantic elements

Semantic elements do not apply any special presentation giving them great flexibility

Article and section, for instance, can be used in many ways when designing your website





Meta

Represents HTML meta data

Has many types

If the charset attribute is set, the <meta> element is a charset declaration, giving the character encoding in which the document is encoded

Debugging your HTML

Browsers are permissive with syntax errors

Use the browser's DOM inspector

Validate your HTML using https://validator.w3.org/

Sources

- 1. MDN Web docs HTML
- 2. Fundamentals of Web Development. 3rd Edition by Randy Connolly and Ricardo Hoar.
- 3. https://htmldog.com/guides/html/