HTML Review

Tags, Forms, Layout, Tag Settings

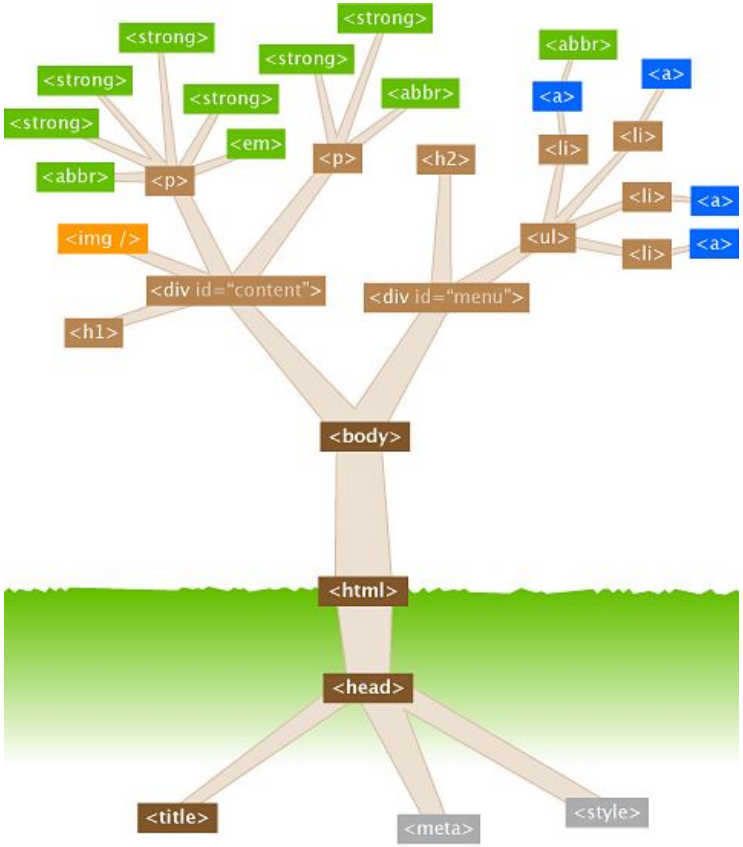
〈hi/coders〉

Agenda

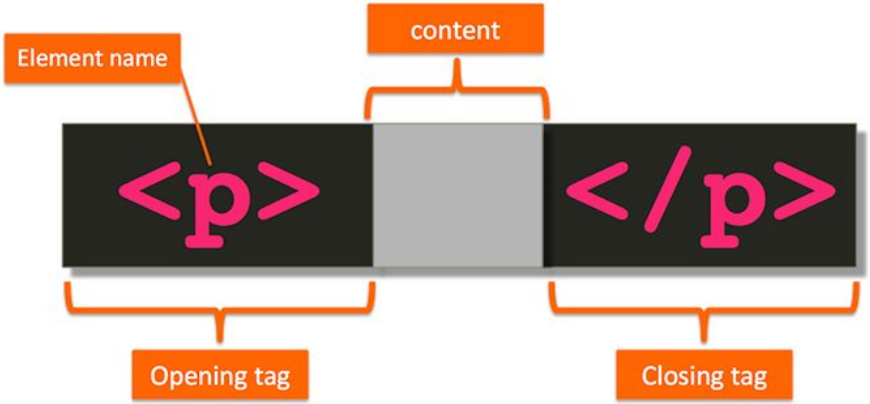
- Tags
  - Structuring
  - To define content
  - To structure content
- Attribute
  - Global Attribute
  - Tag specific Attribute
  - Attribute for CSS
  - Attribute for JS
- Workshop: Let’ try it!
- Questions

Learning Objectives

- What is a tag?
- How can be the tags grouped?
- What is a Form?
- What is a semantic tag?
- What is an attribute?
- How is the anatomy of an attribute?
- The most used attributes (class, id and others)



Document Object Model = DOM



Tag Rules

- Almost all tags have a closing tag, write them together
- use always lowercase
- HTML does not break the line (of text) by itself
- closing tags uses always forward slash “/” like </p>
- opening tags can contain attributes, but not the closing one!
- There is only one parent
- use appropriate tag for the job

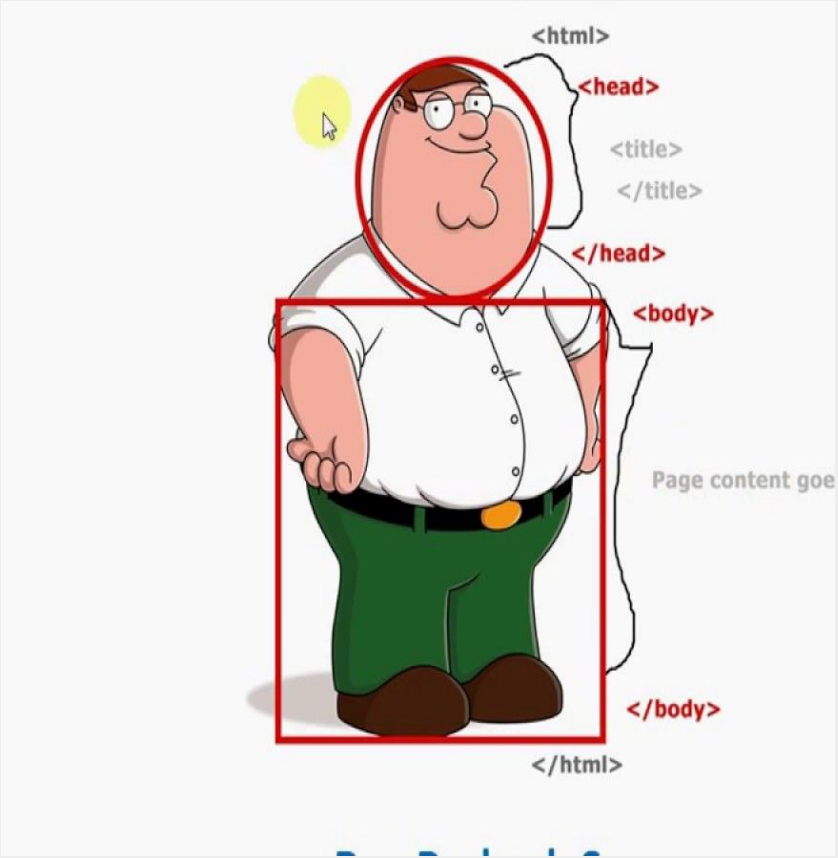
Classification

What kind of tag groups are existing?

- Tags for Structure
- Tags for document content
- Tags for document layout
- Tags for Input, server communication

Tags
For Structure

The envelope, the root of the document, parent structure.



Minimum acceptable/valid HTML structure

- **doctype**
- html
- head
- **title**
- body

Minimum HTML

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>title</title>
  </head>
  <body>
    <!-- page content -->
  </body>
</html>
```

HTML with CSS & JS

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>title</title>
    <link rel="stylesheet" href="style.css">
    <script src="script.js"></script>
  </head>
  <body>
    <!-- page content -->
  </body>
</html>
```

Tags for Content

How can one format the content?

Think/treat it as a word document

- <h1></h1> (h2, h3, h4, h5, h6)
  - Element for defining **Headings**.
-
  - Element for defining **Paragraphs**
- ,
- ,
- <a>
  - Anchor
- <ul></ul>
  - **Unordered List**, Element for defining an unstructured list
- <ol></ol>
  - **Ordered List**, Element for defining an structured list
- <li></li>
  - **List Item,** Element for defining a list
- <img>, <video>

Tags for Content – I

Text formatting

- **Paragraph**:
- **Bold**: ,
- ***Italic***: ,
- **Marked text**: <mark></mark>
- **TEST** Small text: <small></small>
- ~~**Deleted text**~~: <del></del>
- **Inserted text**: <ins></ins>, <u></u>
- **TEST** $_{\text{Subscript text}}$:
- **TEST** $^{\text{Superscript text}}$:
- **New Line:**

Paragraph:

This is at est paragraph. This is at est paragraph. This is at est paragraph. This is at est paragraph.

Bold Text: **Fetschrifft mit dem Tag**
Important Text: **Fetschrifft mit dem Tag**

Italic Text: *Kursiv Text mit dem Tag* Emphasized Text: *Hervogehobenr Text*

Marked text: Markierter Text mit dem Tag <mark></mark>

Small text: Normaler Text mit kleinerem Text mit dem Tag (<small></small>)

Deleted text: ~~Gelöschter Text mit dem Tag~~ <del></del>

Underlined Text: Unterstrichener Text mit dem Tag <u></u>
Inserted Text: Underlined Text mit dem Tag <ins></ins>

Subscript Text: Normaler Text $_{\text{und teifgestellter Text mit dem Tag}}$

Superscript Text: Normaler Text $^{\text{und hochgestellter Text mit dem Tag}}$

Tags for Content – II

Text formatting

- **Links:** <a href=”Link/web adress”>Linkismi</a>
  - href is an Attribute
    - <a href="https://google.ch" alt="Google" title="Google's Link">Click to open the google</a>
- **Lists:**
  - Ordered List
    - <ol>
      - <li>List Item</li>
      - <li>List Item</li>
    - </ol>
  - Unordered List
    - <ul>
      - <li>List Item</li>
      - <li>List Item</li>
    - </ul>

A link (hyperlink)

Click to open the google

Ordered List

1. List Item 1
2. List Item 2

Unordered List

- List Item 1
- List Item 2

Tags for Content – III

Text formatting

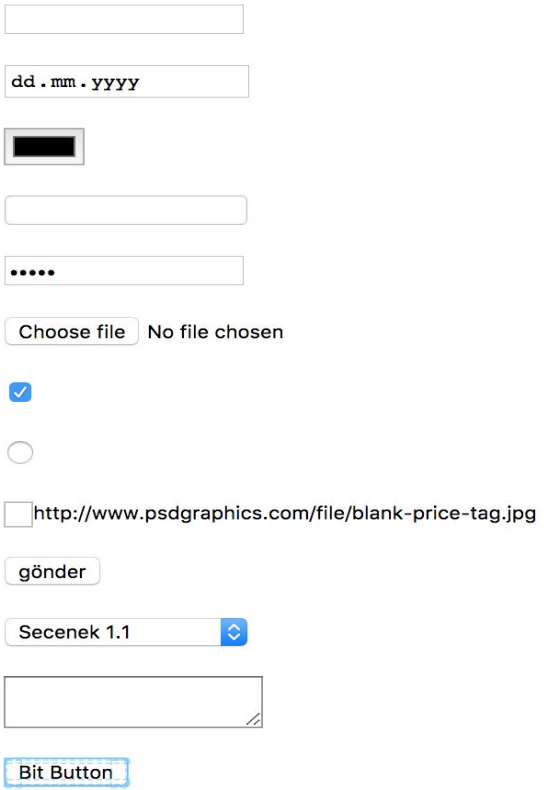
- **pre:** Maintains original format
- **q:** Smaller, shorter quotations
- **blockquote:** Quotations from other sources
- **label:**
- **fieldset, legend:**
- **img:**
- **audio:**
- **video:**
- **embed:**
- For more -> https://www.w3schools.com/tags/default.asp

Tags for Communication with the Server

- form
- input
- textarea
- select
  - option
- button

Tags for Server Forms

- <form></form>
- <input type="text" name="soyisim" value="club"/>
  - type: text, number, email, file, color, search, date, checkbox, submit, button, image, password, hidden
- <select></select>
  - <optgroup></optgroup>
    - <option></option>
- <textarea></textarea>
- <button></button>



EXAMPLE

Email address

Email

Password

Password

File input

Choose File No file chosen

Example block-level help text here.

Check me out

Submit

Copy

```
<form>
  <div class="form-group">
    <label for="exampleInputEmail1">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" placeholder="Email">
  </div>
  <div class="form-group">
    <label for="exampleInputPassword1">Password</label>
    <input type="password" class="form-control" id="exampleInputPassword1" placeholder="Password">
  </div>
  <div class="form-group">
    <label for="exampleInputFile">File input</label>
    <input type="file" id="exampleInputFile">
    <p class="help-block">Example block-level help text here.</p>
  </div>
  <div class="checkbox">
    <label>
      <input type="checkbox"> Check me out
    </label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```

Username:

Password:

City of Employment:

Web server: — Choose a server —

Please specify your role:

- Admin
- Engineer
- Manager
- Guest

Single Sign-on to the following:

- Mail
- Payroll
- Self-service

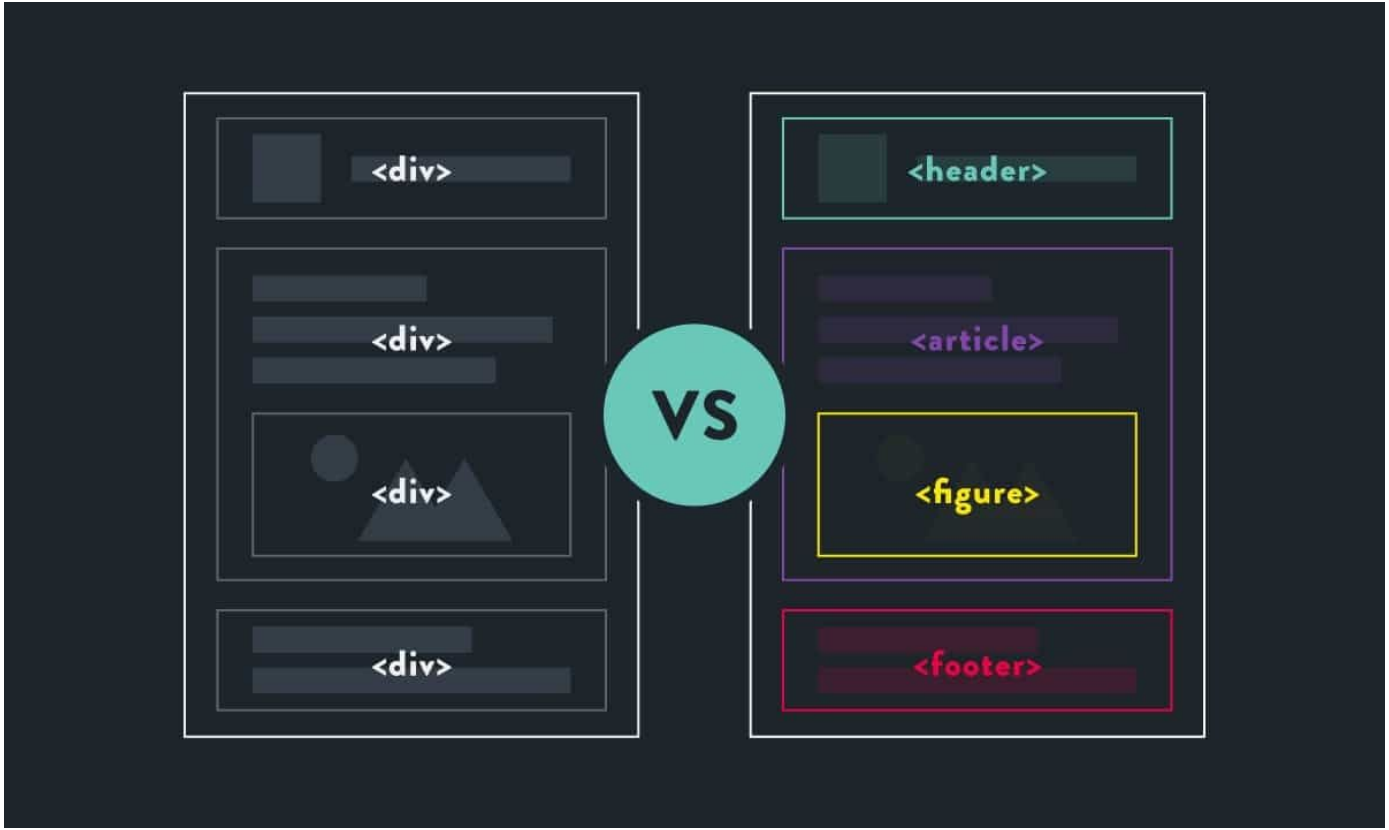
Login Reset

HTML Form

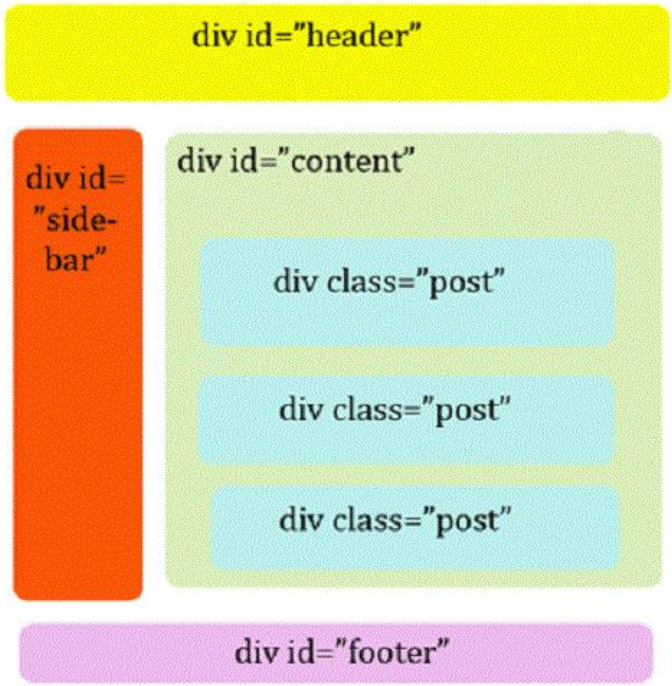
Tags for Content Structuring

Layout
Tags for Grouping

- ***div (division)***
- ***span***
- ***fieldset***
- ***form***
- main
- header
- footer
- nav
- aside
- article
- section
- details, summary

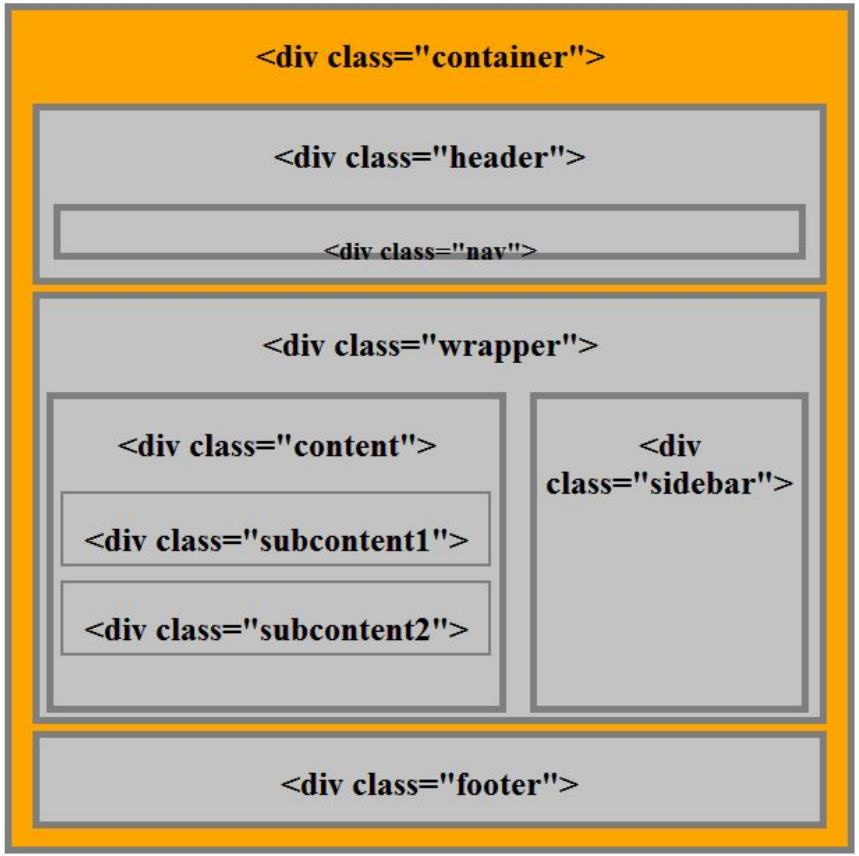


VS
<header>
<article>
<figure>
<footer>



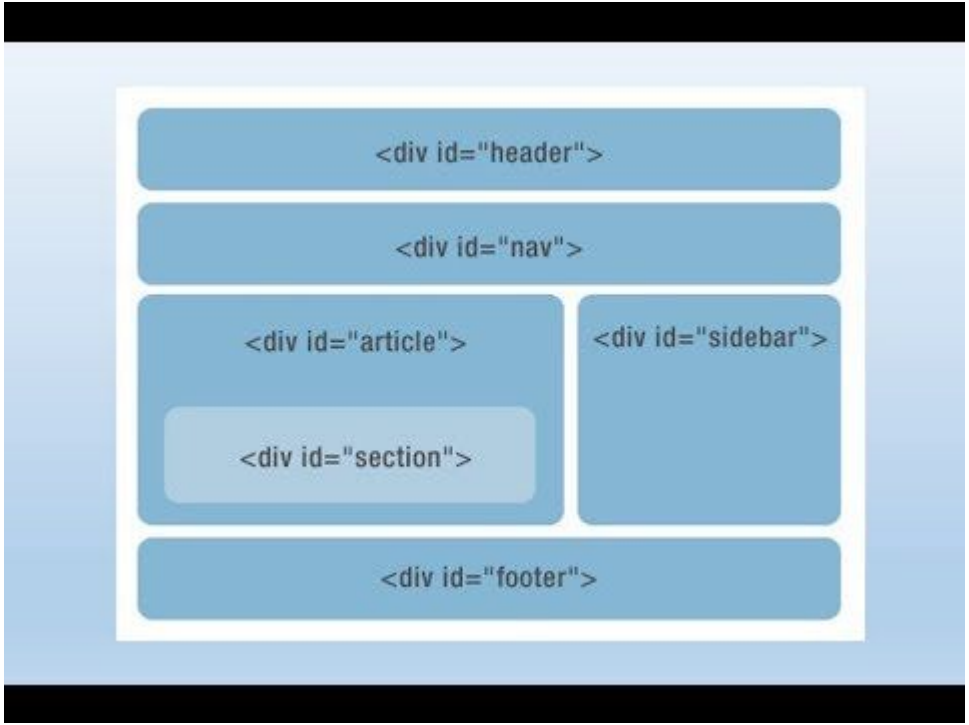
NON-Semantic HTML Tags

Source: Hongkiat



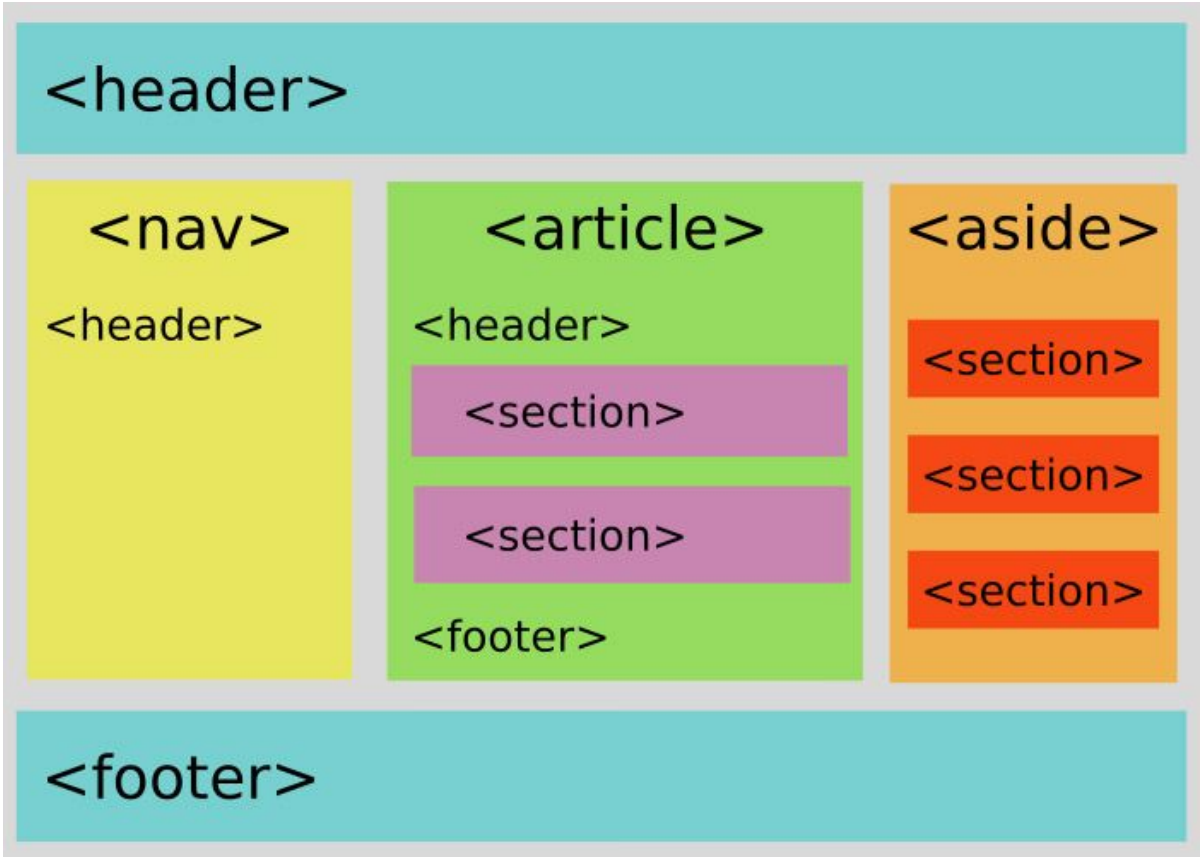
NON-Semantic HTML Tags

Source: C-sharpcorner



NON-Semantic HTML Tags

Source: Hongkiat

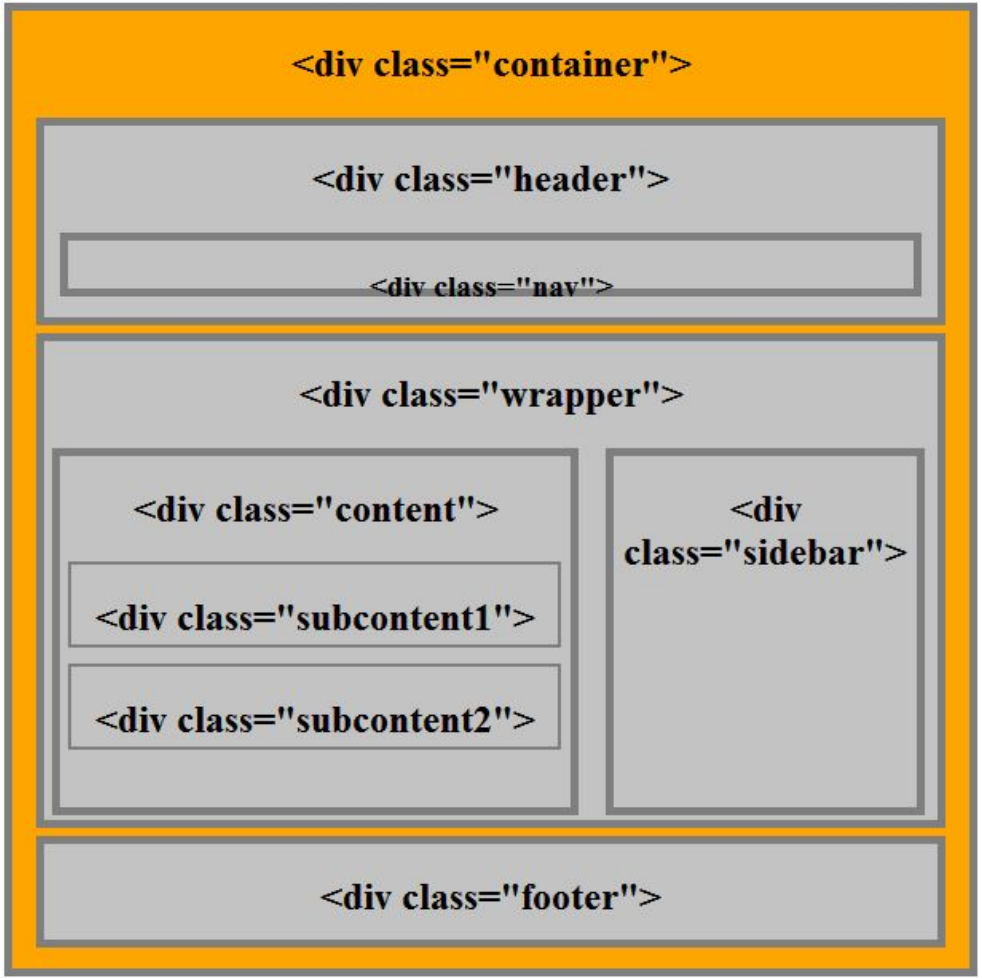


Semantic HTML Tags

Source: Hongkiat

let's try it

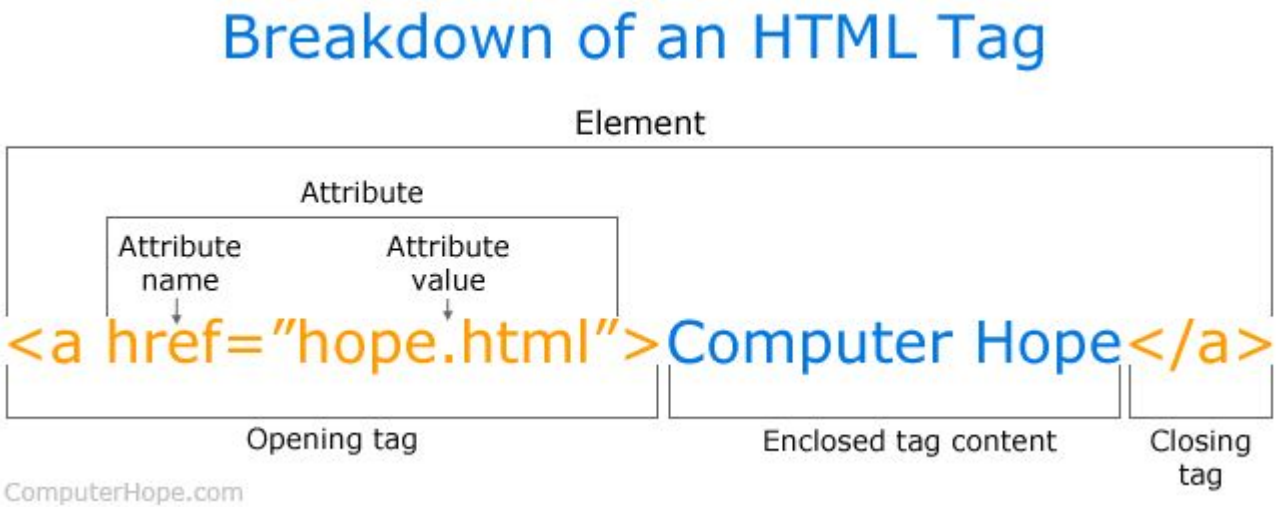
write it with divs convert it into semantic tags!



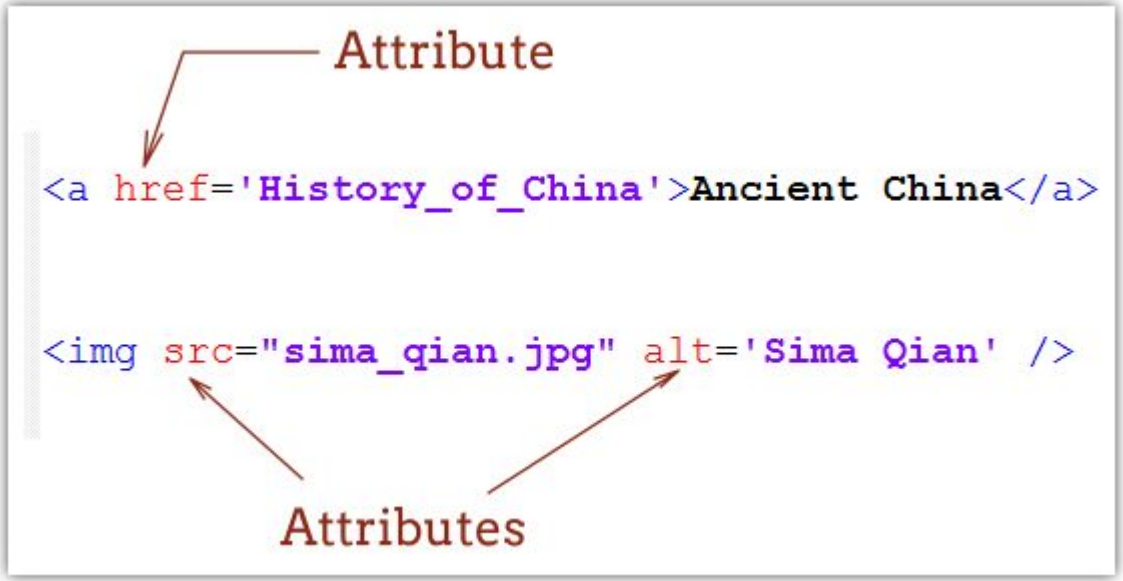
Attributes

Customize the Tag

- Tags are commands
- Each tag has its default attribute values
- These values can be changed/adjusted.
- They change the behaviour of the tag.



Anatomy of an attribute



Anatomy of an attribute (more than one attr.)

href, src, alt

```
<TABLE border="1">
    <TR>
        <TD align="right">This is align right<br>This is align right</TD>
        <TD align="center">This is align center</TD>
        <TD valign="top">This is valign top</TD>
        <TD valign="bottom">This is valign bottom</TD>
        <TD>This is normal td</TD>
    </TR>
    <TR>
        <TD>This is normal td</TD>
        <TD colspan="2">This is colspan</TD>
        <TD rowspan="2">This is rowspan</TD>
        <TD>This is normal td</TD>
    </TR>
    <TR>
        <TD bgcolor="red">This is red td</TD>
        <TD>This is normal td, This is normal td</TD>
        <TD>This is normal td, This is normal td</TD>
        <TD>This is normal td</TD>
    </TR>
</TABLE>
```

Other examples

align, valign, bgcolor, colspan, rowspan

anchor tag
specific attribute
global attribute
event attribute
<a href="SOME_URL" id="mylink" onclick="doSomething()">
ANCHOR TEXT
</a>

Attributes

Global Attribute

Applies to all HTML Tags (Elements)

Often used

- **id**
- **class**
- **title**
- ***style***
- ***data-****
- hidden
- lang
- tabindex

Less used

- accesskey
- contenteditable
- contextmenu
- dir
- draggable
- dropzone
- itemid
- itemprop
- itemref
- itemscope
- itemtype
- spellcheck

Tag specific Attributes

More Information:

https://developer.mozilla.org/en-US/docs/Web/HTML/Attributes

- <img src="/image.jpg" alt="My Dogs Image"/>
  - sizes, srcset, height, width, crossorigin, ...
- <a href="http://abc.com" target="_blank"..</a>
  - download, ping, rel, type
- <input type="tel" autofocus="true" autocomplete="off"/>
  - pattern, placeholder, min, max, size, minlength, maxlength, name, readonly, required, spellcheck, value, ...
- <button disabled="true" >...</button>
- audio
  - loop, autoplay, muted, played, buffered, src, preload, volume, controls
- meter
  - min, max, low, high, optimum, value
- progress
  - max, value
- form
  - novalidate, target, action, method, enctype, autocomplete, accept-charset, …
- details
  - open
- textarea
  - cols, rows, wrap
- td
  - ~~bgcolor~~, rowspan, colspan, ~~valign~~, ~~align~~, ...

let's try it

Use some attributes in an HTML (10min).

Additional Resources

- https://developer.mozilla.org/en-US/docs/Web/HTML/Attributes
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/form
- https://www.youtube.com/watch?v=qz0aGYrrlhU
- https://www.youtube.com/watch?v=vj78j_Sy3uM

Questions?