HTML Tags

Building blocks in HTML

etiquette, elements, structure, ...

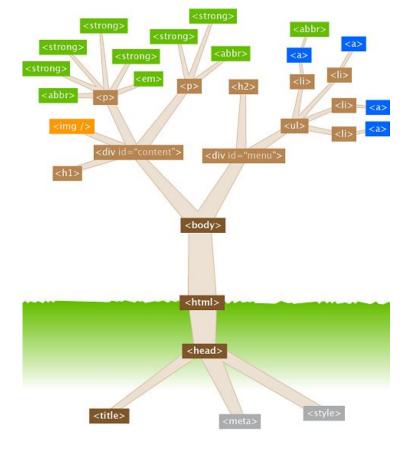


Agenda

- Tags
 - Structuring
 - To define content
 - To structure content
- Workshop: Let' try it!
- Questions

Learning Objectives

- What is a tag?
- How is the anatomy of a tag?
- How can be the tags grouped?
- Can the tags be nested?
- What is HTML validation?
- What is a semantic tag?



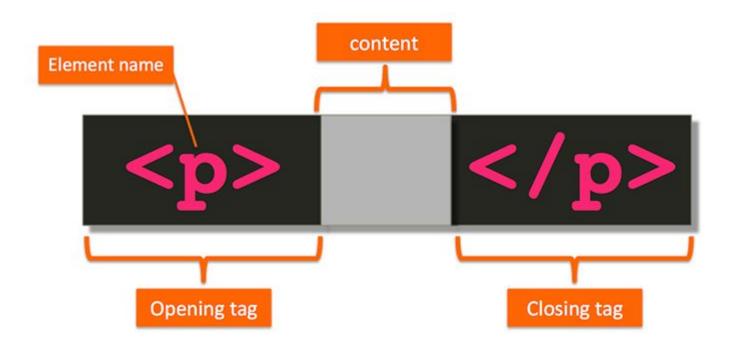
Document Object Model = DOM

Intro



How can data be defined in HTML structure and become a web document?

- Tags are commands
- Every tag is interpreted by the browser
- Interpreted tags assemble a view, browser page.
- Every tag has a meaning/duty.
- Classification
 - Tags for Structure
 - Tags for document content
 - Tags for document layout
 - Tags for Input, server communication



Anatomy of a tag (paired)

Anatomy of void tag (unpaired)

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
- opening tags can contain attributes, but not the closing one!
- There is only one parent
- use appropriate tag for the job

Classification

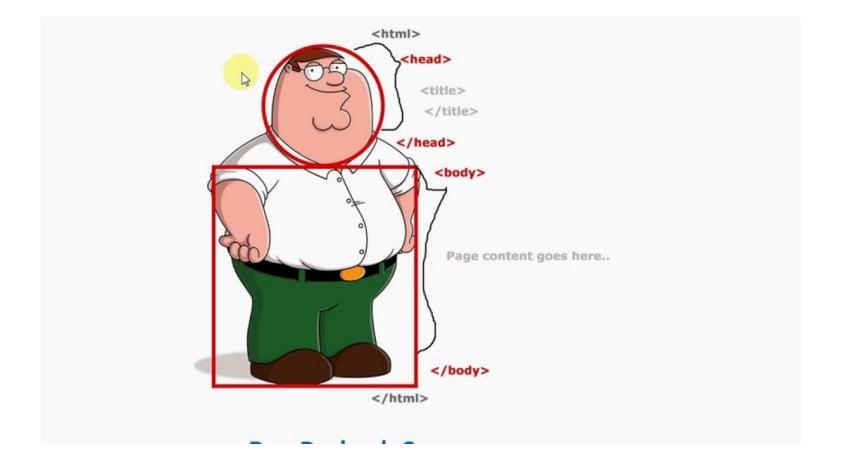
What kind of tag groups are existing?

- 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.

- <!DOCTYPE html>
 - Document type definition → html latest version HTML5
- <html></html>
 - Parent of the whole HTML ist.
- <head></head>
 - Invisible part
 - Defines document
 - <title></title>
 - < **meta/>**
 - < </link></link>
 - Element for document linking, such as external CSS files
 - o <script></script>
 - Javascript code / files can be imported
- <body></body>
 - Visible part of the page



Minimum acceptable/valid HTML structure

- doctype
- html
- head
- title
- body

Minimum valid HTML

Minimum 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>
```

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>
```

```
week02-01.html ×

    week02-01.html > 
    html > 
    body > 
    p

       <!DOCTYPE html>
       <html lang="en">
       <head>
           <meta charset="UTF-8">
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
  5
           <title>HiCoders - Week 02 - Tags</title>
       </head>
       <body>
 10
           <h1>HiCoders</h1>
 11
           <h2>Coding Academy</h2>
           <h3>For everybody</h3>
 12
           Lorem ipsum dolor sit amet consectetur adipisicing elit.
 13
               Quo sequi harum non, in nemo voluptates, voluptas nostrum
 14
               libero a qui ad minus nobis inventore! Vitae itaque dolor
 15
               sit error dignissimos!
 16
 17
       </body>
 18
       </html>
 19
 20
```

HiCoders

Coding Academy

For everybody

Lorem ipsum dolor sit amet consectetur adipisicing elit. Quo sequi harum non, in nemo voluptates, voluptas nostrum libero a qui ad minus nobis inventore! Vitae itaque dolor sit error dignissimos!

An HTML, written in VSCode

Tags for Content

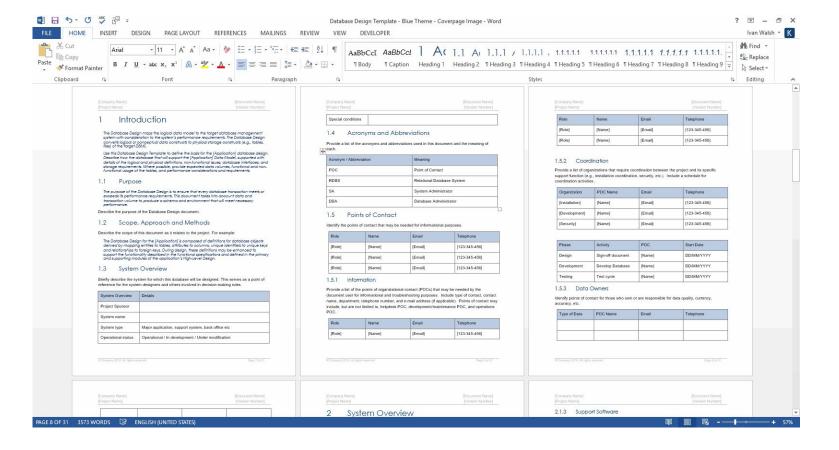
How can one format the content?

Think/treat it as a word document

- <h1></h1> (h2, h3, h4, h5, h6)
 - Element for defining **Headings**.
- - Element for defining Paragraphs
- ,
- <i><i></i>,
- <a>
 - Anchor
- - Unordered List, Element for defining an unstructured list
- <0|></o|>
 - Ordered List, Element for defining an structured list
- <|i></i>
 - **List Item,** Element for defining a list
- , <video>



Exactly the same formatting as in the MS Word document.

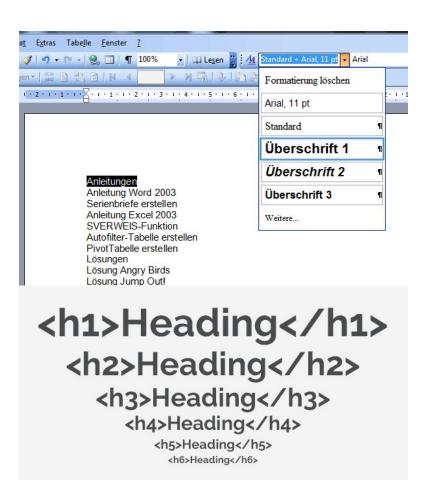


a nice formatted word document

Tags for Content

Headings

<h1></h1> (h2, h3, h4, h5, h6)



Tags for Content - I

Text formatting

- Paragraph:
- Bold: ,
- *Italic*: <i></i>,
- Marked text: <mark></mark>
- TEST small text: <small></small>
- Deleted text:
- Inserted text: <ins></ins>, <u></u>
- **TEST**_{Subscript text}:
- **TEST** 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 <i></i> 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

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

Subscript Text: Normaler Text und teifgestellter Text mit dem Tag

Superscript Text: Normaler Text und hochgestellter Text mit dem Tag

```
26 
27 Bugün günlerden cumartesi, <mark>nese doluyor her yer!</mark>
28 <strong>Eyvah yok ödevi verdin mi?</strong>
29 <del>Kurstan silinebilirsin</del>, <ins>sakin unutma!</ins>
30
```

Bugün günlerden cumartesi, nese doluyor her yer! Eyvah yok ödevi verdin mi? Kurstan silinebilirsin, sakin unutma!

An example to text formatting

let's try it

Icerik Formatlama

Lorem *ipsum* dolor sit amet consectetur adipisicing elit. Accusantium, neque impedit **fuga harum cumque**recusandae eos incidunt non ratione tenetur omnisaperiam suscipit quaerat excepturi dolore? Deleniti vero numquam eaque.

 CO_2

$$x^2 + y^2 = z^2$$

Tags for Content - II

Text formatting

- **Links:** Linkismi
 - href is an Attribute
 - Click to open the google
- Lists:
 - Ordered List
 - <o|>
 - <|i><|i>List | tem</|i>
 - List Item
 - Unordered List
 - - List Item
 - List Item
 - ■

A link (hyperlink)

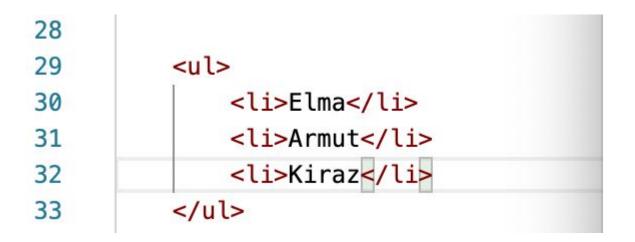
Click to open the google

Ordered List

- 1. List Item 1
- 2. List Item 2

Unordered List

- List Item 1
- List Item 2



- Elma
- Armut
- Kiraz

An example to use the listing

let's try it

Icerik Formatlama

Listeleme

Alisveris Listesi:

- Süt
- Ekmek
- Gipfeli

Bugün sirasi ile yapilacak isler:

- 1. Sabah kalk
- 2. Selam dur!
- 3. Kahvalti yap
- 4. Cantayi kontrol et!
- 5. Trene bin

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

Merhaba

Bu gördügünüz tag, tüm bosluklari yazdigimi gibi ekrana bastiriyor

. . .

"Bu tag (q), bu textin bir alinti oldugunu semantic olarak anlatiyor"

Daha büyük alintilar icin bu tagi (blockquote) kullanacagiz

Fieldset, Legend

Fields icerik





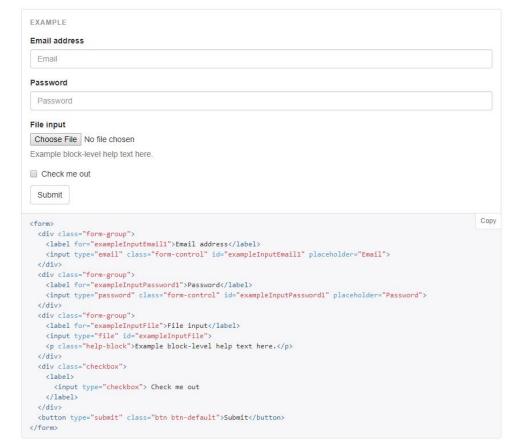
Tags for Communication with the Server

- 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>
 - o <optgroup></optgroup>
- <textarea></textarea>
- <button></button>

dd.mm.yyyy
••••
Choose file No file chosen
0
http://www.psdgraphics.com/file/blank-price-tag.jpg
gönder
Secenek 1.1
Bit Button



An HTML Form



TRY: Chrome Dev Tools

https://getbootstrap.com/docs/4.0/examples/checkout/

let's try it

Tables

Displays tabular data

- Table Container:
- Table Cell: /td>
- Table Headings:
- Table Header: <thead></thead>
- Table Body:
- Table Footer: <tfoot></tfoot>
- Table Caption: <caption></caption>

```
<caption style = "font-size:24px; color: #90F; font-weight: bold;">
 An HTML Table for Tabular Data
</caption>
Col 1 Heading
 Col 2 Heading
```

Table Code - I

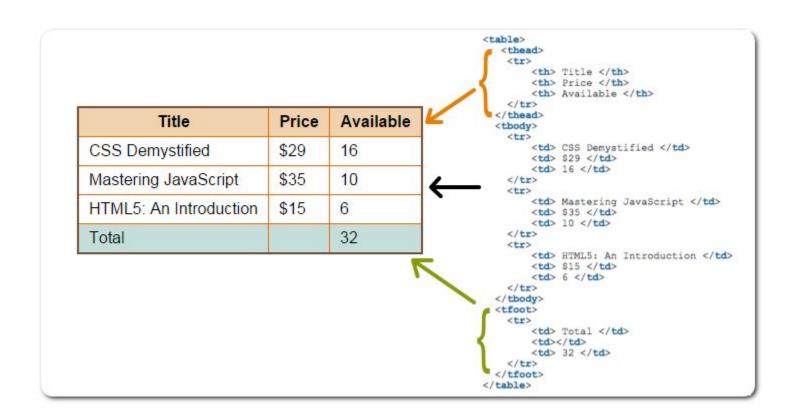


Table Code - II



TRY: Chrome Dev Tools

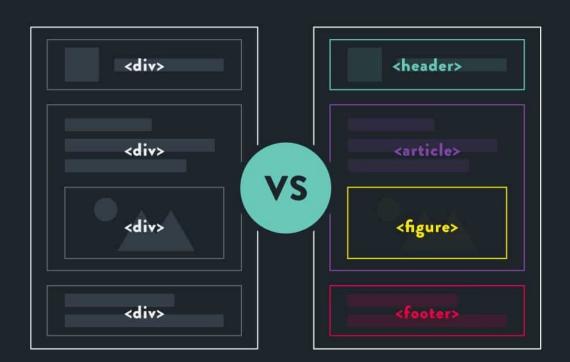
let's try

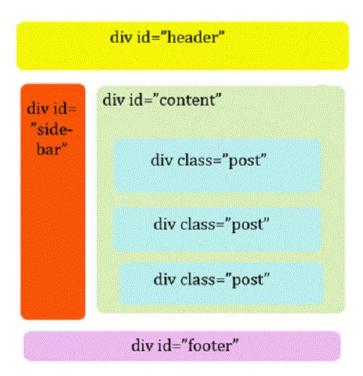


Tags for Content Structuring

Layout Tags for Grouping

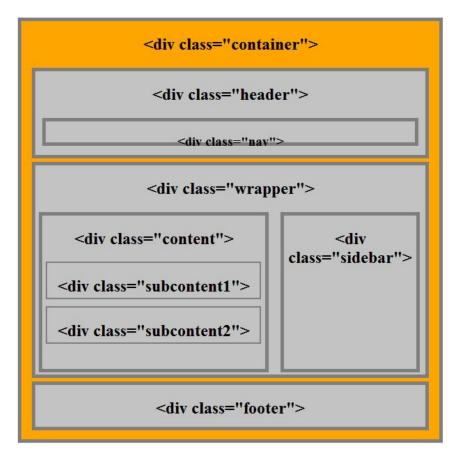
- div (division)
- span
- fieldset
- form
- main
- header
- footer
- nav
- aside
- article
- section
- details, summary





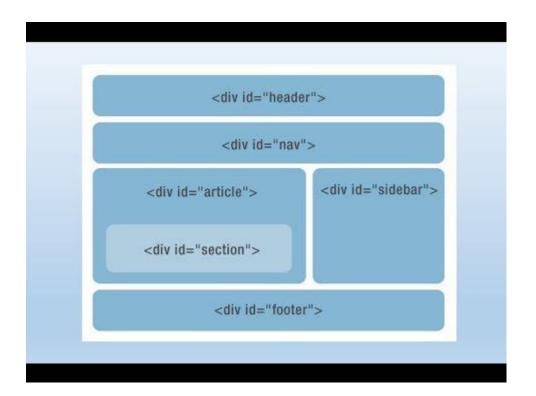
NON-Semantic HTML Tags

Source: Hongkiat



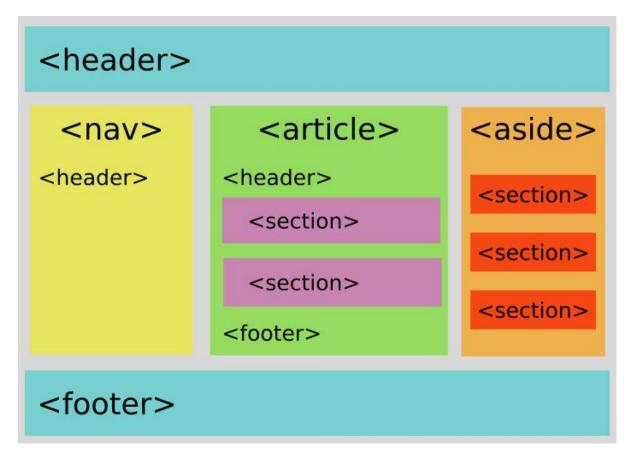
NON-Semantic HTML Tags

Source: C-sharpcorner



NON-Semantic HTML Tags

Source: Hongkiat



Semantic HTML Tags

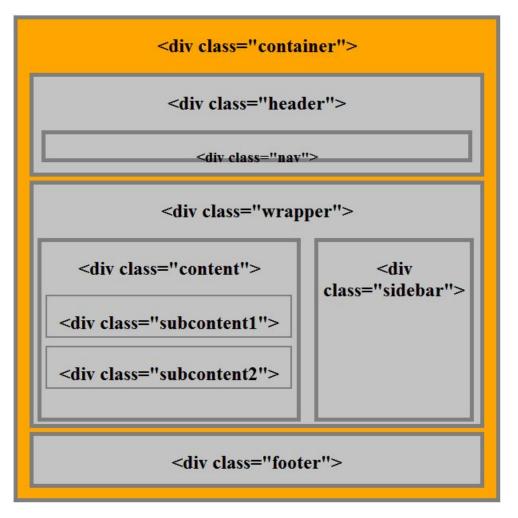


TRY: Chrome Dev Tools

https://getbootstrap.com/docs/4.0/examples/album/

let's try it

write it with divs convert it into semantic tags!

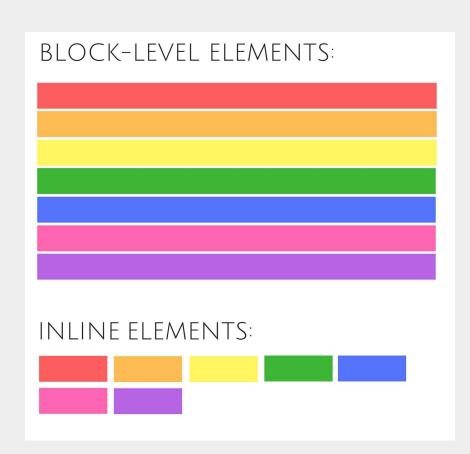


Inline, Block Tags (Elements)

Elements can also be classified differently

https://marksheet.io/html-block-inline.html

Inline: Dostunu ötelemeyen tag



Questions?