# Course: PHP from scratch

by Sergey Podgornyy

Introduction to HTML & CSS



# **About me**



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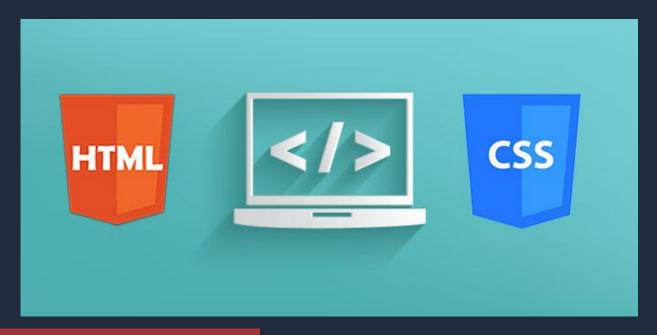


## **Overview**

- Goals and objectives of HTML
- Document Structure (DOM)
- meta data keywords, description, robots
- Comments
- Markup, elements, tags, attributes
- **Header** h1-h6
- Paragraph p. Text formating strong, em, ins, cite, big, small, sub, sup
- Entities © ™
- Hyperlinks relative and absolute
- Images
- Lists ol, ul, dl. Navbar based on list
- iframes
- Semantic markdown i и em, b и strong, divиnav, aside, header, footer
- Tables. colspan & rowspan
- Forms. Required attribute.input type=text, password, submit; value, placeholder; checkbox, radio; select;
- CSS selectors. borders, margins, paddings.
- Sizes, positions, visibility

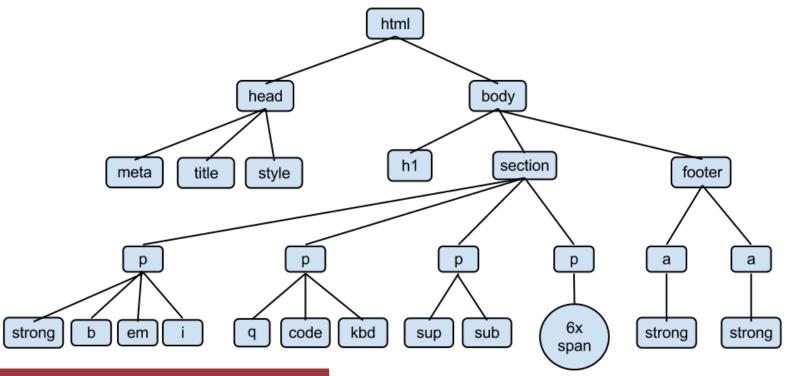
#### HTML

Hyper Text Markup Language (HTML) is the standard markup language for creating web pages and web applications



### **DOM**

The **Document Object Model (DOM)** is a crossplatform and language-independent application programming interface



# **DOM**

```
<!DOCTYPE html>
    <html lang="en">
    <head>
        <meta charset="UTF-8">
        <title>Document</title>
        <style type="text/css">
            div {
                background: #ccc;
                color: #333;
                width: 600px;
                margin: 10px auto;
11
12
13
14
                text-align: center;
15
        </style>
    </head>
17
    <body>
18
19
        <div>
            <h1>Hello world</h1>
            This paragraph will be separated on<br/>two lines
21
22
23
        </div>
   </body>
24
25
    </html>
```

# Metadata

# Metadata is used by browsers, by search engines, and other web services

Define the character set used:

```
<meta charset="UTF-8">
```

Define a description of your web page:

```
<meta name="description" content="Free Web tutorials">
```

Define keywords for search engines:

```
<meta name="keywords" content="HTML, CSS, XML, JavaScript">
```

Define the author of a page:

```
<meta name="author" content="Hege Refsnes">
```

Refresh document every 30 seconds:

```
<meta http-equiv="refresh" content="30">
```

# **Formatting Elements**

Formatting elements were designed to display special types of text:

- <b> Bold text
- <strong> Important text
- <i> <i> Italic text
- <em> Emphasized text
- <mark> Marked text
- < <small> Small text
- <del> Deleted text
- <ins> Inserted text
- <sub> Subscript text
- <sup> Superscript text

# **HTML Entities**

Character entities are used to display reserved characters in HTML. A character entity looks like this:

```
&entity_name;
OR
&#entity_number;
```

- Advantage of using an entity name: An entity name is easy to remember.
- **Disadvantage of using an entity name:** Browsers may not support all entity names, but the support for numbers is good.

# Some Useful HTML Character Entities

Result	Description	Entity Name	Entity Number
	non-breaking space		
<	less than	<	<
>	greater than	>	>
&	ampersand	&	&
II .	double quotation mark	"	"
1	single quotation mark (apostrophe)	'	'
¢	cent	¢	¢
£	pound	£	£
¥	yen	¥	¥
€	euro	€	€
©	copyright	©	©
®	registered trademark	®	® <b>S</b>

# **HTML Links - Hyperlinks**

- Use the <a> element to define a link
- Use the href attribute to define the link address
- Use the target attribute to define where to open the linked document
- Use the <img> element (inside <a>) to use an image as a link
- Use the id attribute (id="value") to define bookmarks in a page
- Use the **href** attribute (href="#value") to link to the bookmark

# **HTML Links**

By default, a link will appear like this (in all browsers):

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red

You can change the default colors, by using styles:

```
a:link {color:green; background-color:transparent; text-decoration:none}
a:visited {color:pink; background-color:transparent; text-decoration:none}
a:hover {color:red; background-color:transparent; text-decoration:underline}
a:active {color:yellow; background-color:transparent; text-decoration:underline}
</style>
```

The target attribute can have one of the following values:

- \_blank Opens the linked document in a new window or tab
- \_self Opens the linked document in the same window/tab as it was clicked (this is default)
- \_parent Opens the linked document in the parent frame
- \_top Opens the linked document in the full body of the window
- framename Opens the linked document in a named frame



# **HTML List**

#### Unordered HTML List

```
     Coffee
     Tea
     Milk
```

The CSS **list-style-type** property is used to define the style of the list item marker:

disc - Sets the list item marker to a bullet
(default)

**circle** - Sets the list item marker to a circle

**square** - Sets the list item marker to a square

none - The list items will not be marked

#### Ordered HTML List

```
     Coffee
     Tea
     Milk
```

The **type** attribute of the tag, defines the type of the list item marker:

type="1" - The list items will be numbered with numbers (default)

type="A" - The list items will be numbered with uppercase letters

type="a" - The list items will be numbered with lowercase letters

type="I" - The list items will be numbered with uppercase roman numbers

type="i" - The list items will be numbered with lowercase roman numbers

# **Tables**

- An HTML table is defined with the tag.
- Each table row is defined with the 
   table header is defined with the tag. By default, table headings are bold and centered.
   A table data/cell is defined with the tag.

# iframe

An iframe is used to display a web page within a web page

```
<iframe src="URL" height="200" width="300"></iframe>
```

## **Forms**

```
<form action="action page.php" method="post" oninput="x.value=parseInt(a.value)+parseInt(b.value)">
    <fieldset>
        <legend>Personal information:</legend>
        First name: <br>
        <input type="text" name="firstname" value="Mickey"><br>
        User password: <br>
        <input type="password" name="psw"><br><br><</pre>
        <textarea name="message" rows="10" cols="30">
            The cat was playing in the garden.
        </textarea><hr>
        <input type="radio" name="gender" id="male" value="male" checked> <label for="male">Male</label><br>
        <input type="radio" name="gender" id="female" value="female"> <label for="female">Female</label><hr>
        <input type="checkbox" name="gender" id="coffeee" value="coffeee" checked> <label for="coffeee">Coffeee'>Coffeee'>Coffeee
        <input type="checkbox" name="gender" id="tee" value="tee"> <label for="tee">Tee</label><hr>
        <select name="cars">
            <option value="volvo" selected>Volvo</option>
            <option value="saab">Saab</option>
        </select><hr>>
        <input list="browsers">
        <datalist id="browsers">
            <option value="Firefox">
            <option value="Chrome">
        </datalist>
        <hr>>
        <hr>>
        <button type="button" onclick="alert('Hello World!')">Click Me!</button>
        <input type="submit" value="Submit">
    </fieldset>
</form>
```

#### CSS

- CSS is a language that describes the style of an HTML document.
  - CSS describes how HTML elements should be displayed.
  - This tutorial will teach you CSS from basic to advanced.

# Useful resources

- http://www.w3schools.com/html/
- http://www.w3schools.com/css/
- Bootstrap tutorials

# Thanks for your attention

Q&A

