

Введение

HTML / CSS

HTML

**HyperText Markup
Language
(Язык гипертекстовой разметки)**

HTML

Любой документ на HTML представляет собой набор элементов. Начало и конец каждого элемента задаются, открывающим и закрывающим тегом.

HTML

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`<h1></h1>` - стандартные тег

`` - пустой тег

Meta Information tags

<code><!DOCTYPE></code>	specifies a type of document
<code><title>...</title></code>	page title
<code><link media="..." type="text/css" rel="stylesheet" href="#" /></code>	to include external CSS
<code><meta name="..." content="..." /></code>	meta information
<code><style media="..." type="text/css">...</style></code>	internal CSS

Structure tags

<code><html>...</html></code>	defines the XML namespace
<code><head>...</head></code>	contains information about the document
<code><body>...</body></code>	body of the document
<code><div>...</div></code>	block wrapper. block type
<code>...</code>	text fragment. inline type

Text tags

<p>...</p>	paragraph of text (paragraph). block type
<h1>...</h1> ... <h6>...</h6>	the headings of the first to sixth level. block type
...	bold. inline type
...	italic. inline type
...	link. inline type
<address>...</address>	contact information. block type
<blockquote>...</blockquote>	citation block. block type
<cite>...</cite>	citation text. inline type
<q>...</q>	a short quotation. inline type
<code>...</code>	a piece of computer code. inline type
 	forced line break

Lists tags

<code>...</code>	unordered list. block type
<code>...</code>	ordered list. block type
<code>...</code>	list item. block type
<code><dl>...</dl></code>	list of definitions. block type
<code><dt>...</dt></code>	definition title. block type
<code><dd>...</dd></code>	definition description. block type

Tables tags

<code><table>...</table></code>	table
<code><tr>...</tr></code>	table row
<code><td>...</td></code>	table cell
<code><th>...</th></code>	a header cell in an HTML table
<code><thead>...</thead></code>	groups header content in an HTML table
<code><tfoot>...</tfoot></code>	groups footer content in an HTML table
<code><tbody>...</tbody></code>	groups the body content in an HTML table

Forms tags

<code><form action="#"...</form></code>	creates an HTML form for user input
<code><fieldset>...</fieldset></code>	groups related elements in a form
<code><legend>...</legend></code>	defines a caption for the <code><fieldset></code> element
<code><label for="...">...</label></code>	defines a label for an <code><input></code> element
<code><input type="..." value="..."/></code>	specifies a field where the user can enter data
<code><textarea cols="" rows="">...</textarea></code>	defines a multi-line text input control
<code><select multiple="multiple">...</select></code>	used to create a drop-down list
<code><option selected="selected">...</option></code>	defines an option in a select list

CSS

Cascading Style Sheets (Каскадная таблица стилей)

Separation

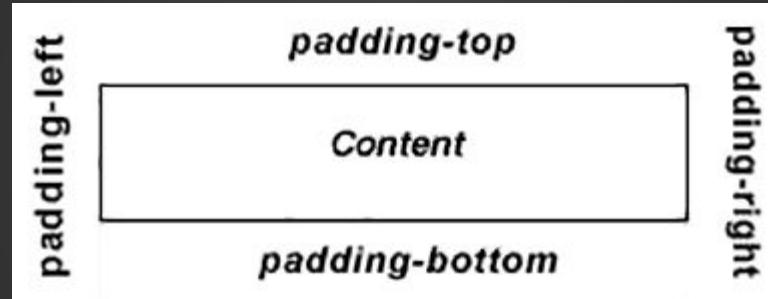


Box model (box-sizing)

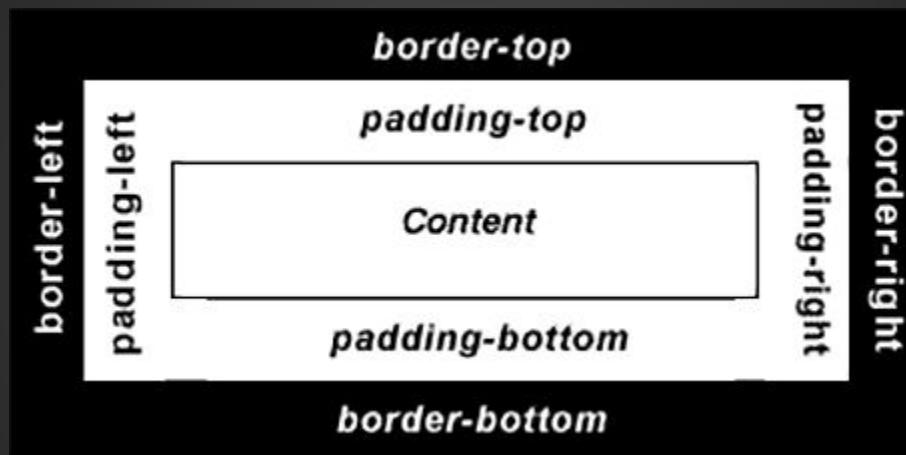


Content

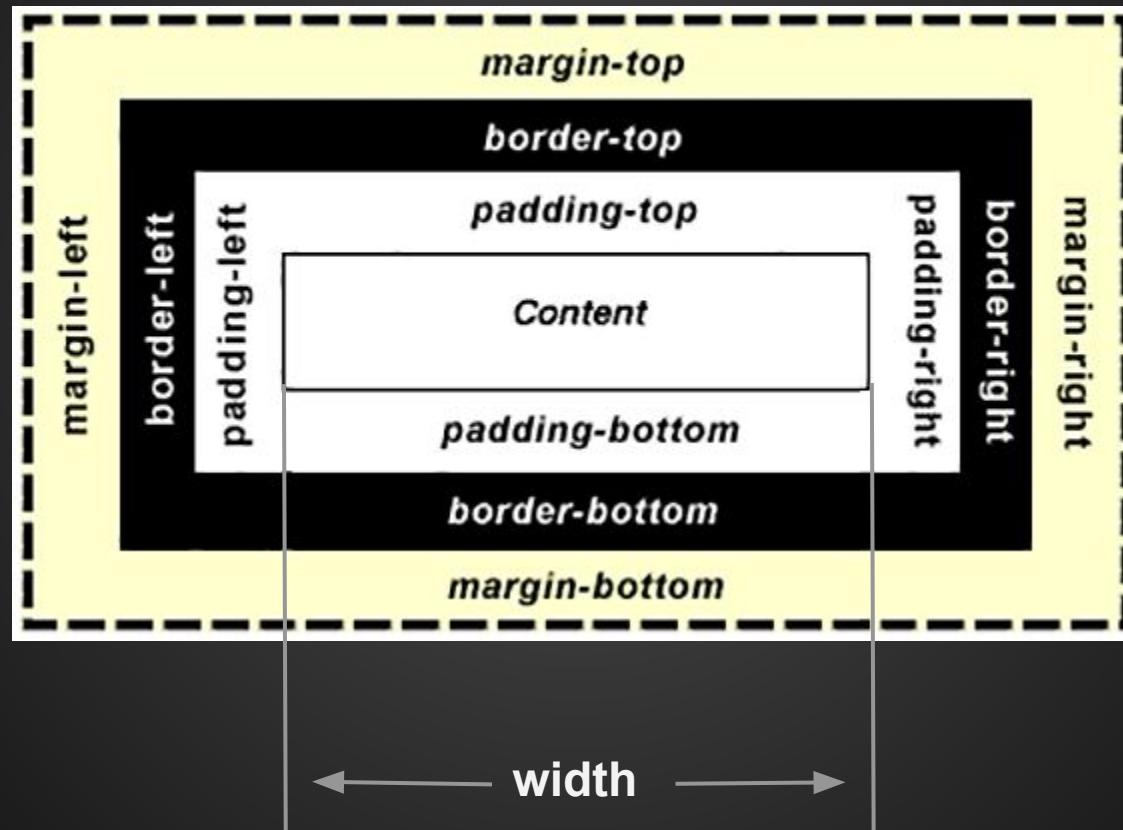
Box model (box-sizing)



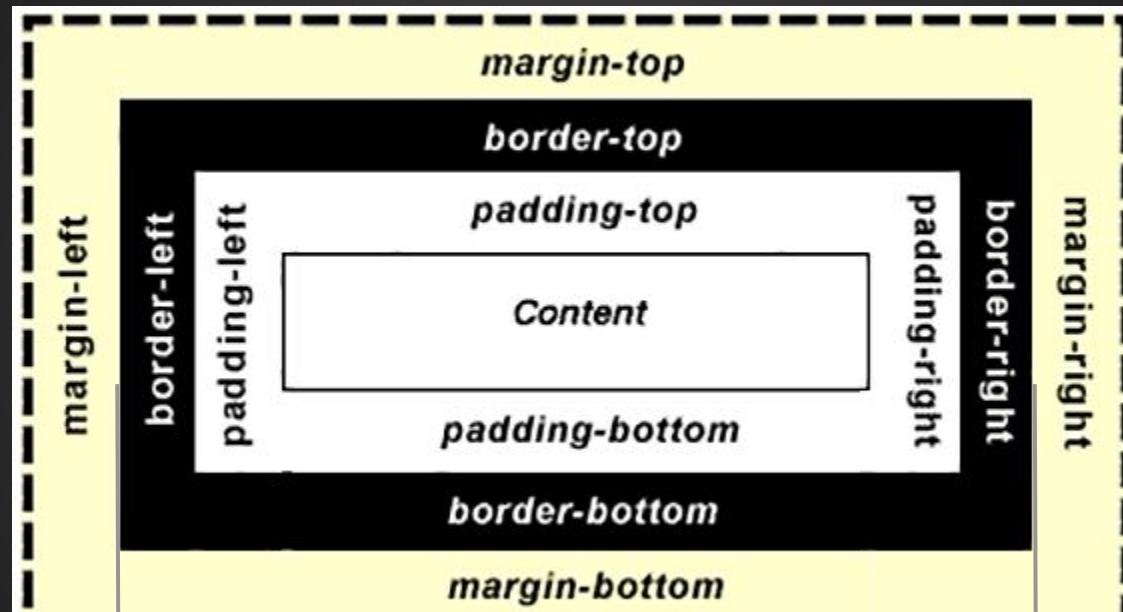
Box model (box-sizing)



Box model (box-sizing)



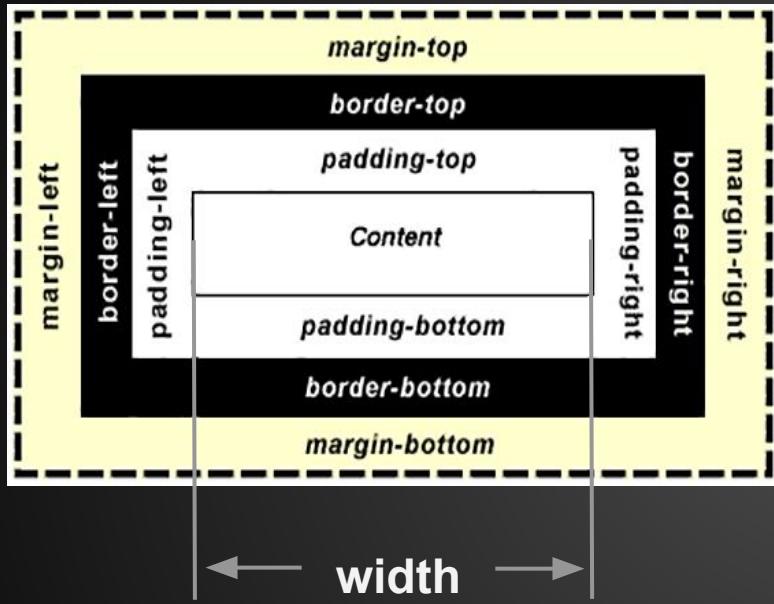
Box model (box-sizing)



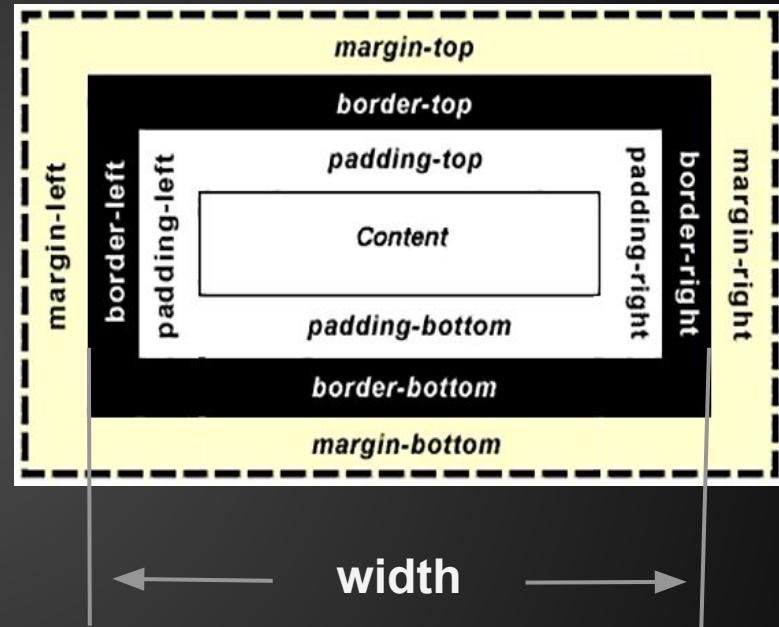
← → **width**

border-box

Box model (box-sizing)



content-box



border-box

Style by default

h1-h6	Margin, font-size, font-weight
dl	margin
dd	margin
p	margin
img	border-style
blockquote	margin
cite	font-style

q	quotes
address	font-style, padding
form	margin, padding
fieldset	margin, padding, border
ul	padding, margin, list-style
table	border-collapse
table th	text-align, font-weight
table td	padding, vertical-align

Block vs inline

Block vs inline

<p>, <div>, <form>, <header>, <nav>,
, , and <h1>



Block vs inline

<p>, <div>, <form>, <header>, <nav>, , , and <h1>

<a>, , , , <i>, <cite>, <mark>, and <code>

BLOCK ELEMENTS EXPAND NATURALLY



AND NATURALLY DROP BELOW OTHER ELEMENTS



INLINE ELEMENTS FLOW WITH TEXT

PELLENTESQUE HABITANT MORBI TRISTIQUE SENECTUS
ET NETUS ET MALESUADA FAMES AC TURPIS EGESTAS.
VESTIBULUM **INLINE ELEMENT** VITAE, ULTRICIES
EGET, TEMPOR SIT AMET, ANTE. DONEC EU LIBERO SIT
AMET QUAM EGESTAS SEMPER. AENEAN ULTRICIES MI
VITAE EST. MAURIS PLACERAT ELEIFEND LEO.



Project: Folders Structure



design



markup



css



images



js



index.html

HTML Structure

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd" >  
  
<html xmlns="http://www.w3.org/1999/xhtml">  
  <head>  
    <meta charset="utf-8">  
    <title>Title of the document</title>  
    <link media="all" rel="stylesheet" href="css/all.css">  
    <script type="text/javascript" src="js/main.js"></script>  
  </head>  
  <body>  
    The content of the document.....  
  </body>  
</html>
```

<!DOCTYPE>

```
<!-- Transitional -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

<!DOCTYPE>

```
<!-- Transitional -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<!-- Strict -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

<!DOCTYPE>

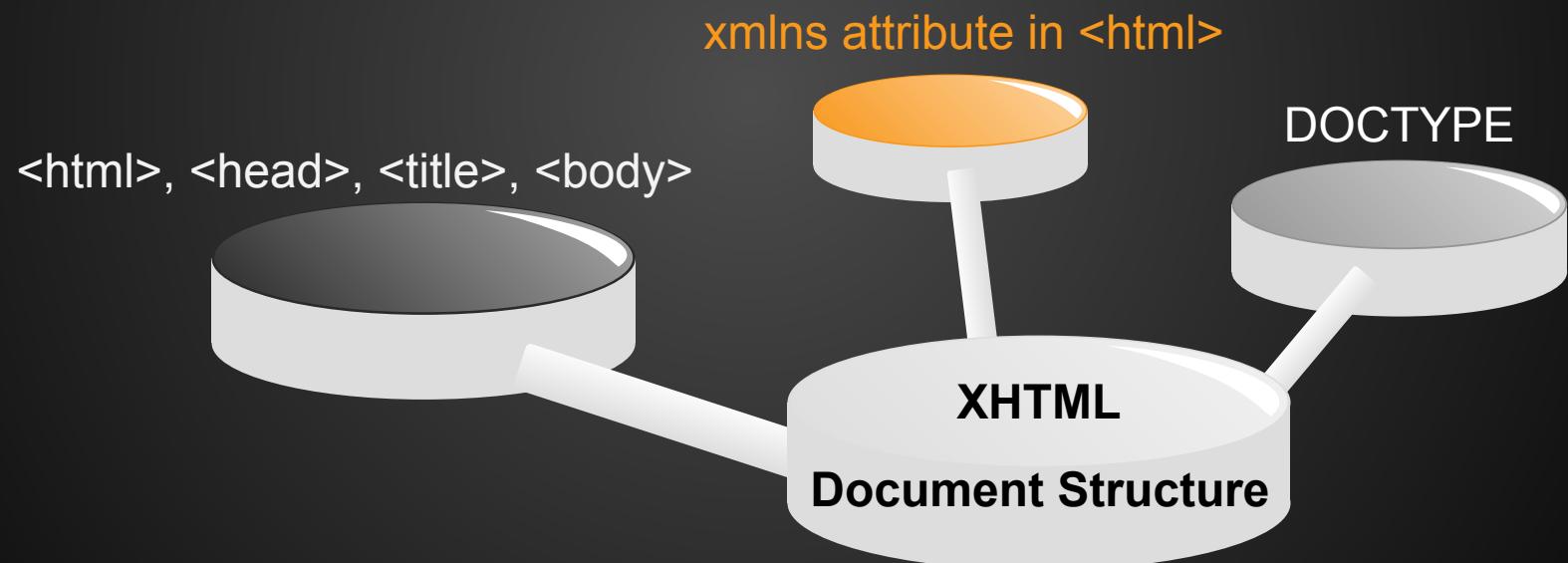
```
<!-- Transitional -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<!-- Strict -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<!-- Frameset -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-frameset.dtd">
```

Differences Between HTML and XHTML

HTML + XML = XHTML



Differences Between HTML and XHTML

XHTML Elements:

must be properly nested	<i>This text is bold and italic</i> <i>This text is bold and italic</i>
must always be closed	A break: A break:
must be in lowercase	<P>This is a paragraph</P> <p>This is a paragraph</p>
documents must have one root element	<html xmlns="http://www.w3.org/1999/xhtml">

Differences Between HTML and XHTML

XHTML Attributes:

names must be in lower case	<table WIDTH="100%"> <table width="100%">
values must be quoted	<table width=100%> <table width="100%">
minimization is forbidden	<input checked> <input checked="checked">

<!DOCTYPE>

```
<!-- Transitional -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<!-- Strict -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!-- Frameset -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-frameset.dtd">

<!-- HTML5 -->
<!DOCTYPE html>
```

HTML Structure

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd" >  
  
<html xmlns="http://www.w3.org/1999/xhtml">  
  <head>  
    <meta charset="utf-8">  
    <title>Title of the document</title>  
    <link media="all" rel="stylesheet" href="css/all.css">  
    <script type="text/javascript" src="js/main.js"></script>  
  </head>  
  <body>  
    The content of the document.....  
  </body>  
</html>
```

Page Structure

The image shows a YouTube page structure. At the top is a navigation bar with the YouTube logo, a search bar, and an 'Upload' button. Below the navigation bar is a large video player window. The video player displays a dark background with the text 'Ripstik Ride Guide' in white and red. A progress bar at the bottom of the video player shows '0:01 / 4:39'. To the right of the video player is a sidebar with two recommended video thumbnails. Each thumbnail shows a person riding a Ripstik scooter and includes the title 'Best Ripstik Video EVER!!!!', the uploader 'Leonard Wheeler', and '1,125,956 views'. Below the sidebar is a channel card for 'Ripstik Ride Guide'. The channel card features a profile picture of a man, the channel name 'nbscooters', a 'Subscribe' button with '582' subscribers, and a view count of '1,213,746'. Below the channel card are interaction buttons for 'Add to', 'Share', and 'More', along with like and dislike counts of '1,523' and '135' respectively.

YouTube UA

Upload

Ripstik Ride Guide

nbscooters

Subscribe 582

1,213,746

Add to Share More

1,523 135

Best Ripstik Video EVER!!!!
by Leonard Wheeler
1,125,956 views
2:49

Best Ripstik Video EVER!!!!
by Leonard Wheeler
1,125,956 views
2:49

Page Structure

header

Ripstik

Ride Guide

main

0:01 / 4:39

nbscooters

Subscribe 582

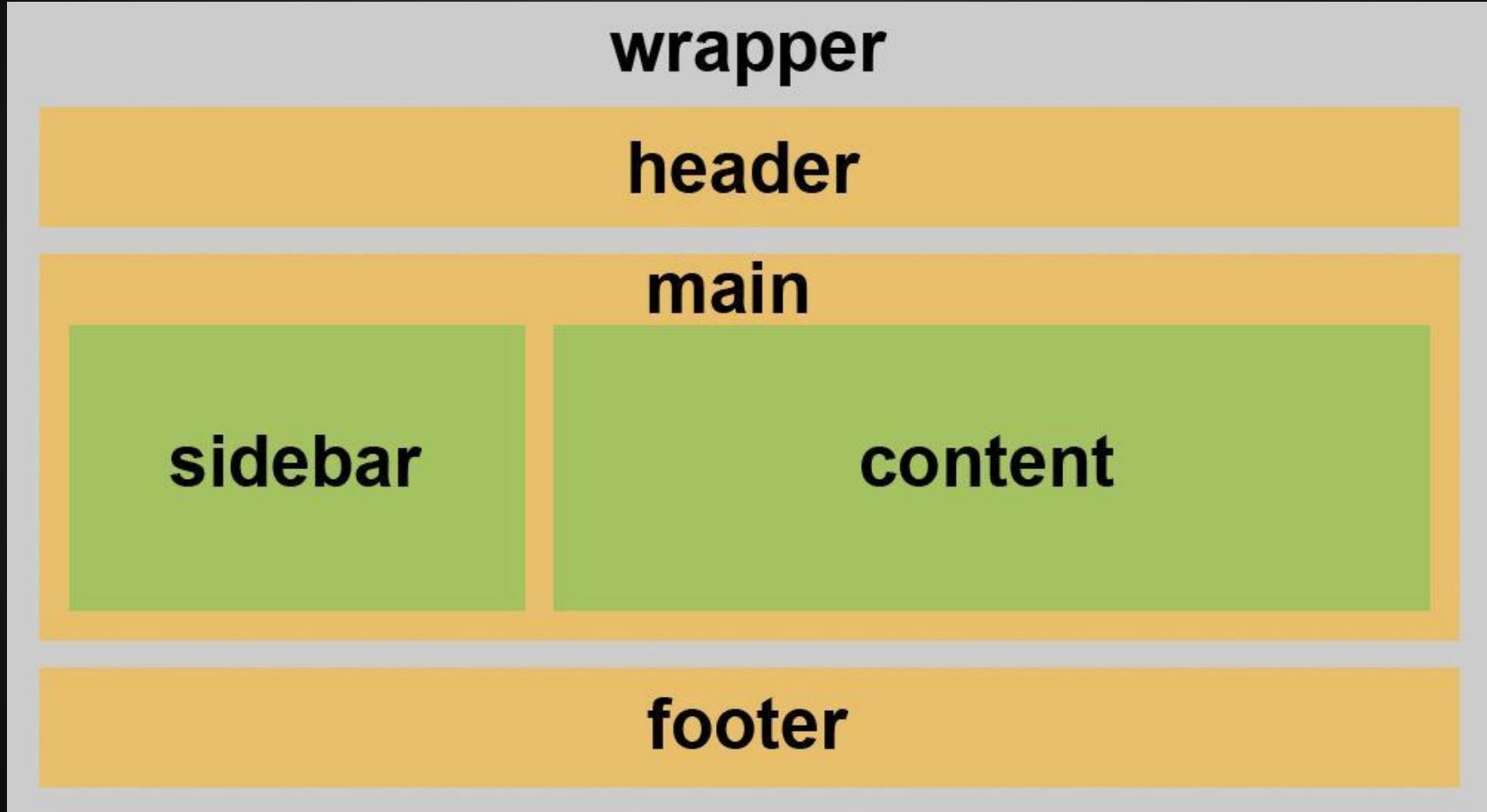
1,213,746

Add to Share More

1,523 135

footer

Page Structure



HTML Structure

```
<body>
  <div id="wrapper">
    <div id="header">
      <strong class="logo"><a href="#"></a></strong>
      <ul id="nav">
        <li><a href="#">Portfolio</a></li>
        <li><a href="#">Blog</a></li>
      </ul>
    </div>
    <div id="main">
      <div id="content"></div>
      <div id="sidebar"></div>
    </div>
    <div id="footer"></div>
  </div>
</body>
```

well done!



Semantic Markup

Semantic Markup

WEB for people, not for robots!

Semantic Markup

1. Using of HTML-elements

Semantic Markup

1. Using of HTML-elements
2. Naming elements

Semantic Markup

- 1. Using of HTML-elements**
- 2. Naming elements**
- 3. The combination of named elements
(Microformats)**

Semantic Markup

```
<div id="links">  
  <a href="#"><span>Cat</span></a>  
  <a href="#"><span>Dog</span></a>  
  <a href="#"><span>Unicorn</span></a>  
</div>
```

Semantic Markup

```
<div id="links">  
  <a href="#"><span>Cat</span></a>  
  <a href="#"><span>Dog</span></a>  
  <a href="#"><span>Unicorn</span></a>  
</div>
```

Cat Dog Unicorn

Semantic Markup

```
<div id="links">  
  <a href="#"><span>Cat</span></a>  
  <a href="#"><span>Dog</span></a>  
  <a href="#"><span>Unicorn</span></a>  
</div>
```

Cat Dog Unicorn

```
<ul class="menu">  
  <li><a href="#">Cat</a></li>  
  <li><a href="#">Dog</a></li>  
  <li><a href="#">Unicorn</a></li>  
</ul>
```

- Cat
- Dog
- Unicorn

Semantic Markup



```
<div id="links">
  <a href="#"><span>Cat</span></a>
  <a href="#"><span>Dog</span></a>
  <a href="#"><span>Unicorn</span></a>
</div>
```

Cat Dog Unicorn



```
<ul class="menu">
  <li><a href="#">Cat</a></li>
  <li><a href="#">Dog</a></li>
  <li><a href="#">Unicorn</a></li>
</ul>
```

- Cat
- Dog
- Unicorn

Semantic Content Markup

<h1>This is the most important headline</h1>

<p>This is ordinary paragraph text within the body of the document, where certain words and phrases may be emphasized to mark them as particularly important. </p>

<h2>This is a headline of secondary importance to the headline above</h2>

<p>Any time you list related things, the items should be marked up in the form of a list:</p>

A list signals that a group of items are conceptually related to each other

Lists may be ordered (numbered or alphabetic) or unordered (bulleted items)

Lists may also be menus or lists of links for navigation

Cascading Style Sheets can make lists look many different ways

We've gotten semantic markup!

What else do we need?!

WE NEED:

MORE SLEEP
MORE MUSIC
MORE TEA
MORE BOOKS
MORE SUNSETS
MORE CREATING
MORE LONG WALKS
MORE LAUGHTER
MORE HUGS
MORE DREAMING
MORE ROAD TRIPS
MORE FUN
MORE LOVE

More
Semantics!!!

New Semantic Elements in HTML5

Tag	Description
<article>	Defines an article
<aside>	Defines content aside from the page content
<details>	Defines additional details that the user can view or hide
<figcaption>	Defines a caption for a <figure> element
<figure>	Specifies self-contained content, like illustrations, diagrams, photos, code listings, etc.
<footer>	Defines a footer for a document or section
<header>	Specifies a header for a document or section
<main>	Specifies the main content of a document
<mark>	Defines marked/highlighted text
<nav>	Defines navigation links
<section>	Defines a section in a document
<summary>	Defines a visible heading for a <details> element
<time>	Defines a date/time

Tag

Description

<article>

Defines an article

<aside>

Defines content aside from the page content

<details>

Defines additional details that the user can view or hide

<figcaption>

Defines a caption for a <figure> element

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Specifies self-contained content, like illustrations, diagrams, photos, code listings, etc.

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Defines a footer for a document or section

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Specifies a header for a document or section

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Specifies the main content of a document

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Defines marked/highlighted text

<nav>

Defines navigation links

<section>

Defines a section in a document

<summary>

Defines a visible heading for a <details> element

<time>

Defines a date/time

New Semantic Elements in HTML5





When you write semantic html!



When you don't!