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.

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`<h1></h1>` - стандартные тег

`<img />` - пустой тег

Meta Information tags

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

Structure tags

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

Text tags

...	paragraph of text (paragraph). block type
... ...	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

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

Tables tags

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

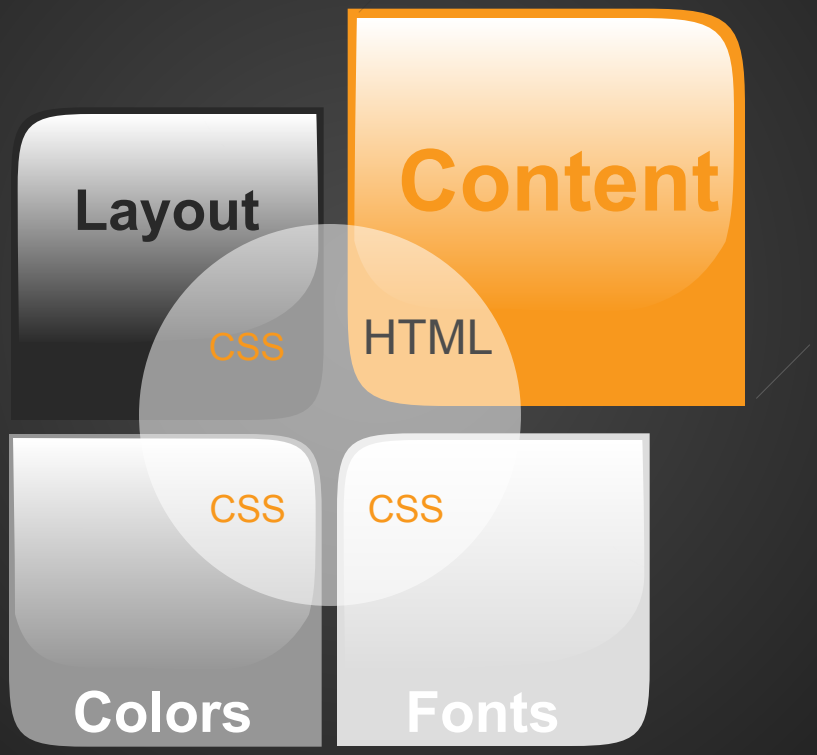
Forms tags

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

CSS

Cascading Style Sheets
(Каскадная таблица стилей)

Separation



Box model (box-sizing)

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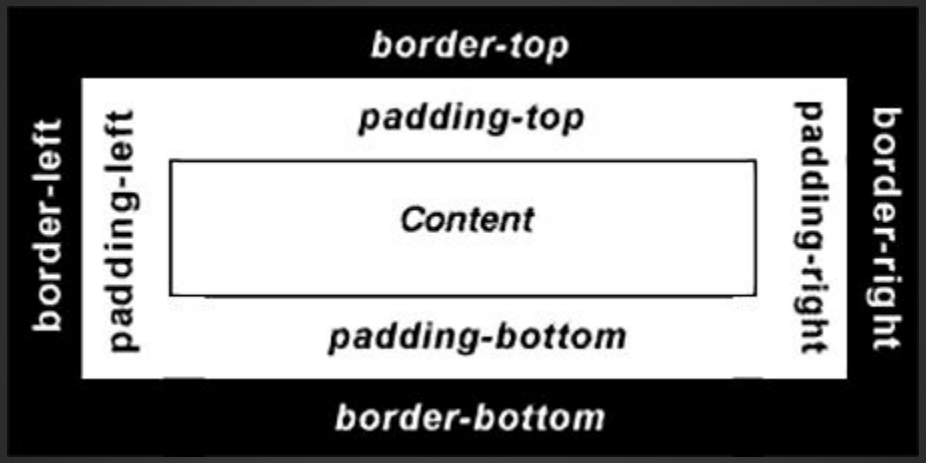
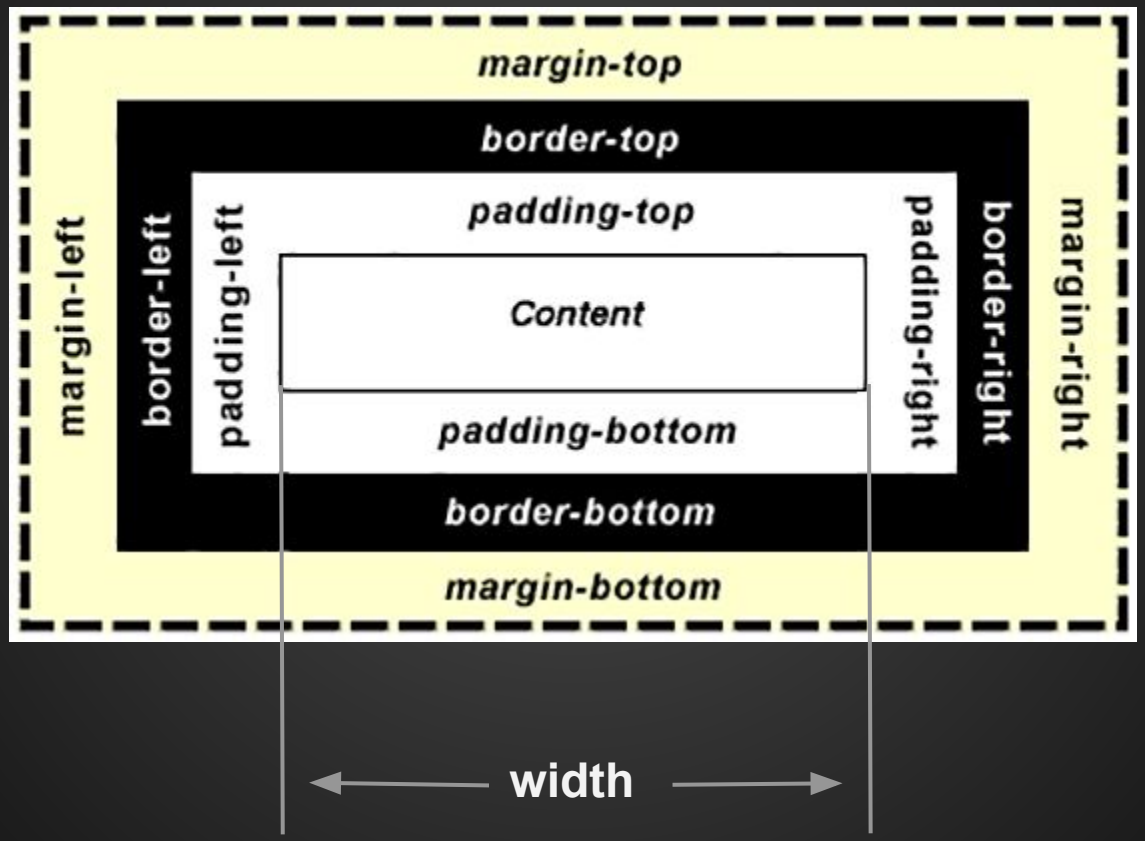
Box model (box-sizing)

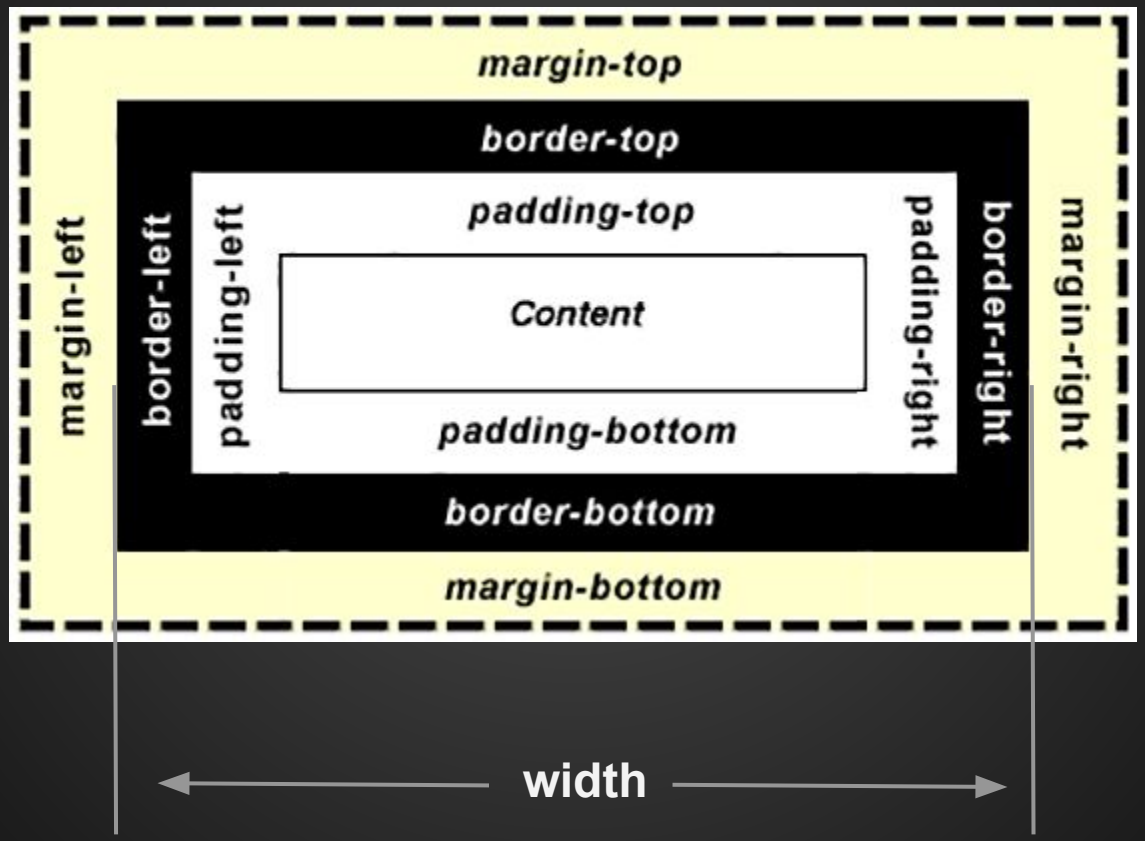


Box model (box-sizing)



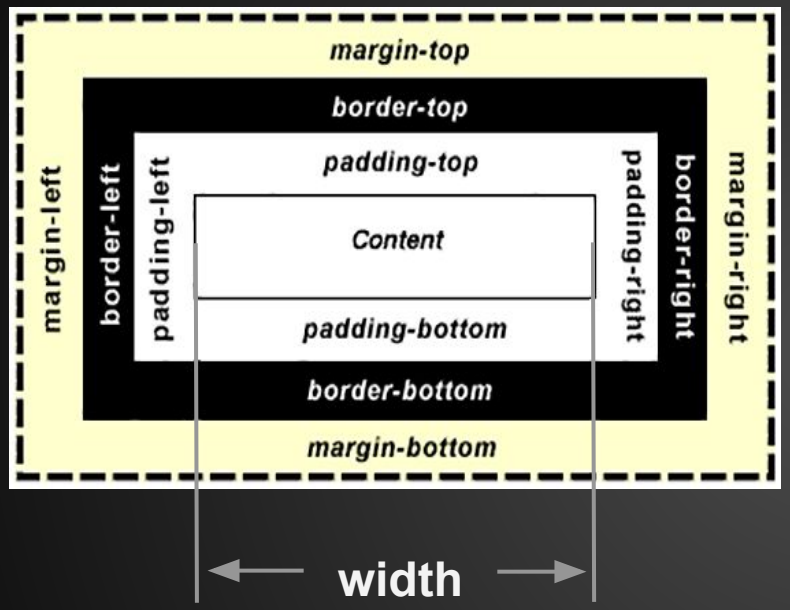
content-box

Box model (box-sizing)

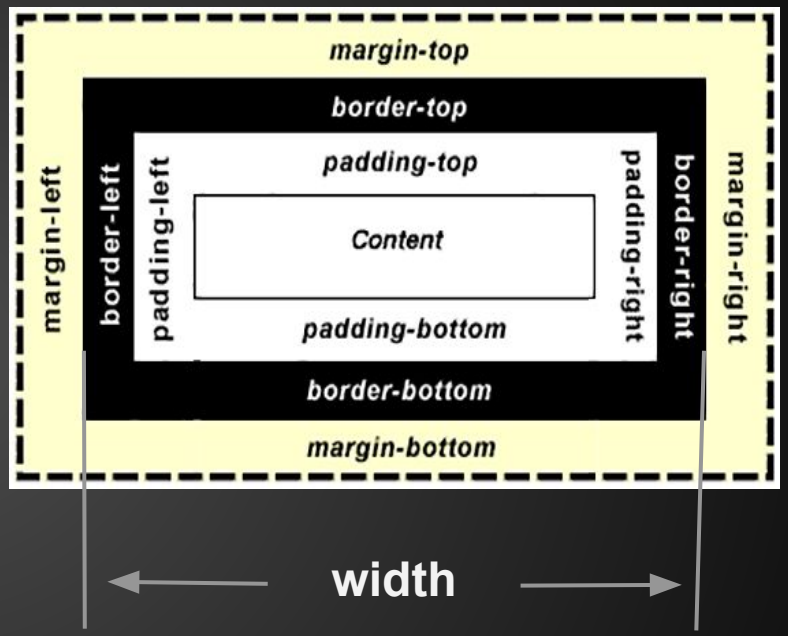


border-box

Box model (box-sizing)



content-box



border-box

Style by default

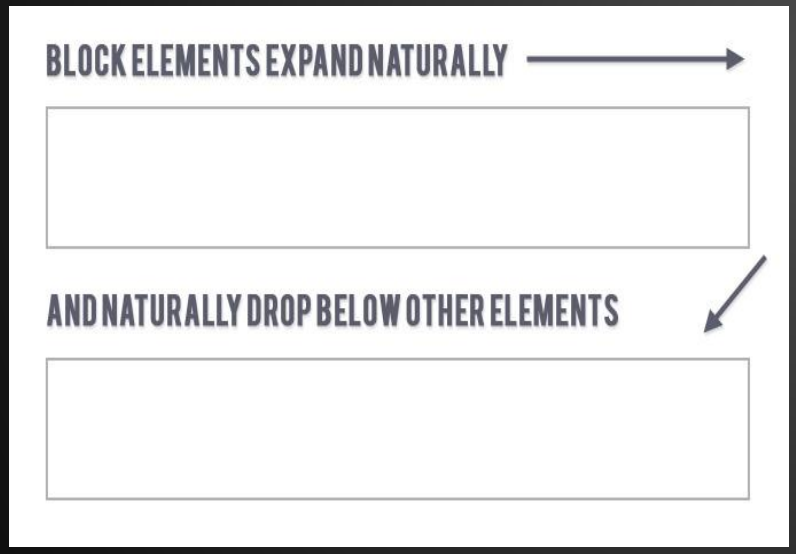
h1-h6	Margin, font-size, font-weight
dl	margin
dd	margin
p	margin
img	border-style
blockquote	margin
cite	font-style

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

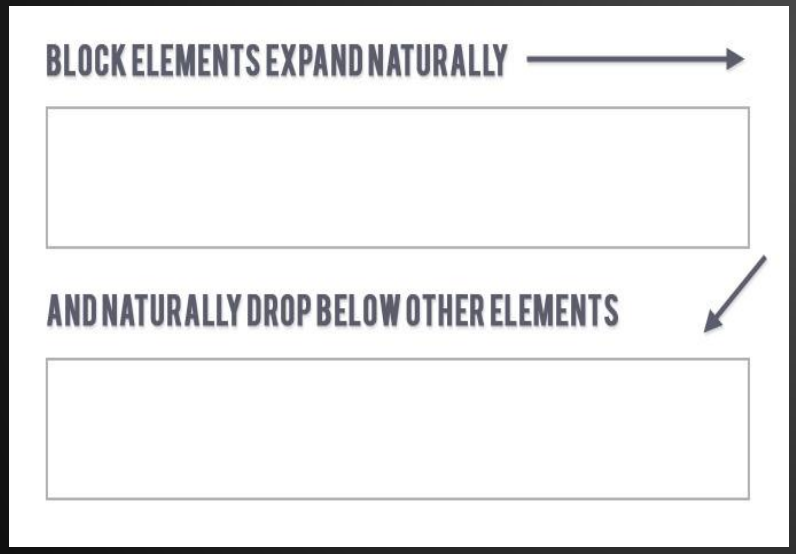
<p>, , <form>, <header>, <nav>, <ul>, <li>, and <h1>

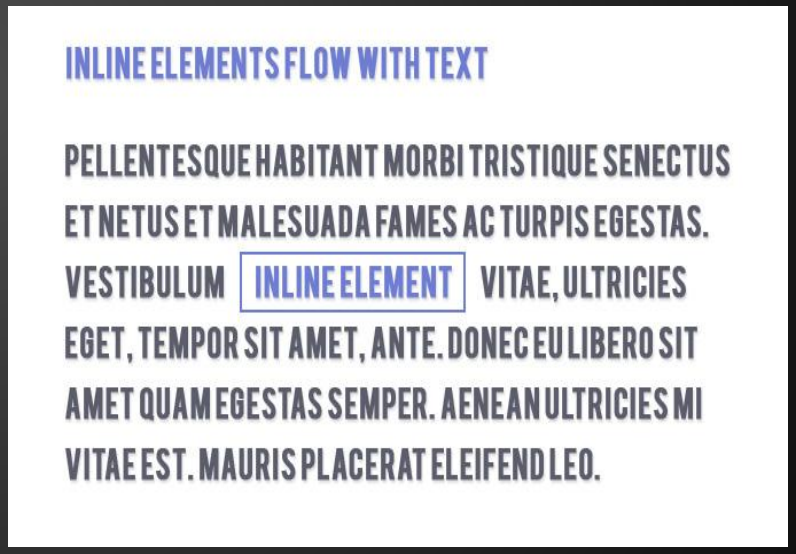


Block vs inline

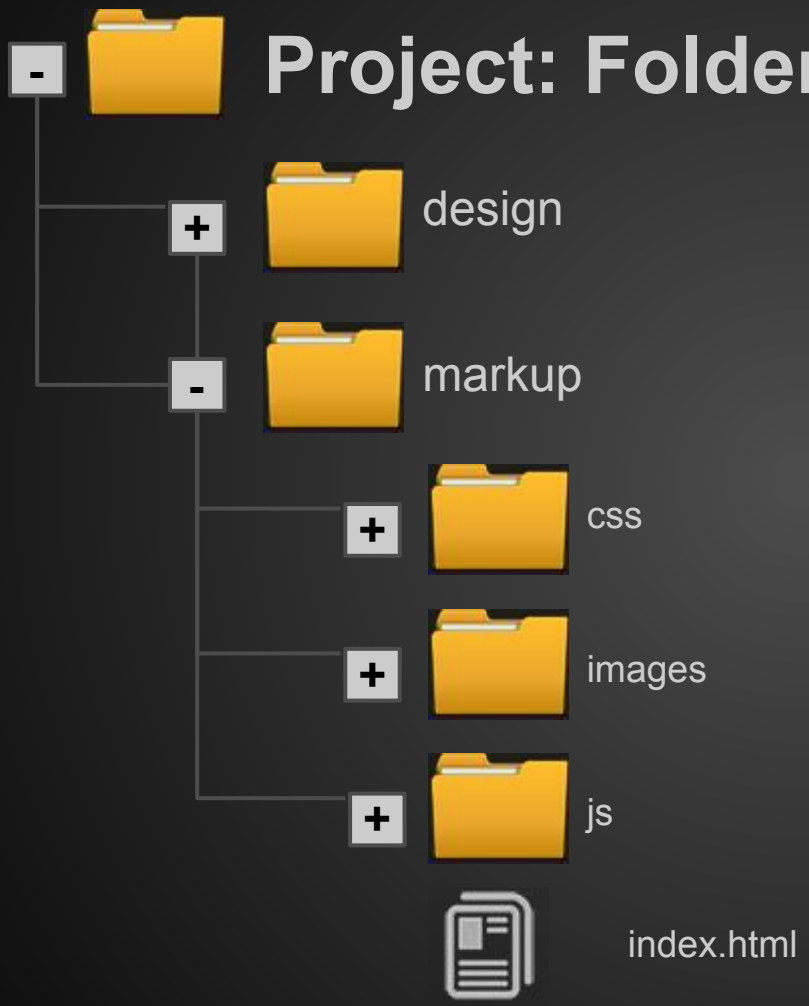
<p>, , <form>, <header>, <nav>, <ul>, <li>, and <h1>

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





Project: Folders Structure



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>

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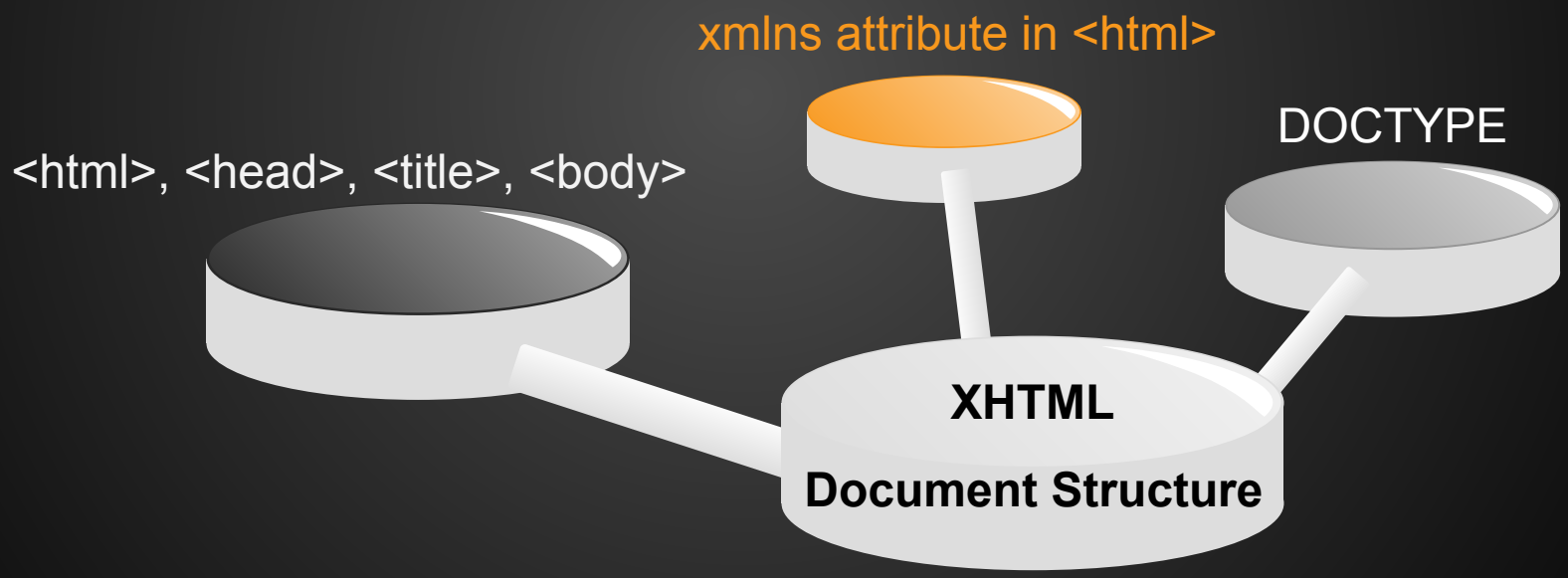
<!-- Strict -->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd ">

<!-- 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**	This text is bold and italic This text is bold and italic
must always be **closed**	A break: A break:
must be in **lowercase**	<P>This is a paragraph</P> This is a paragraph
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" >

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    <head>
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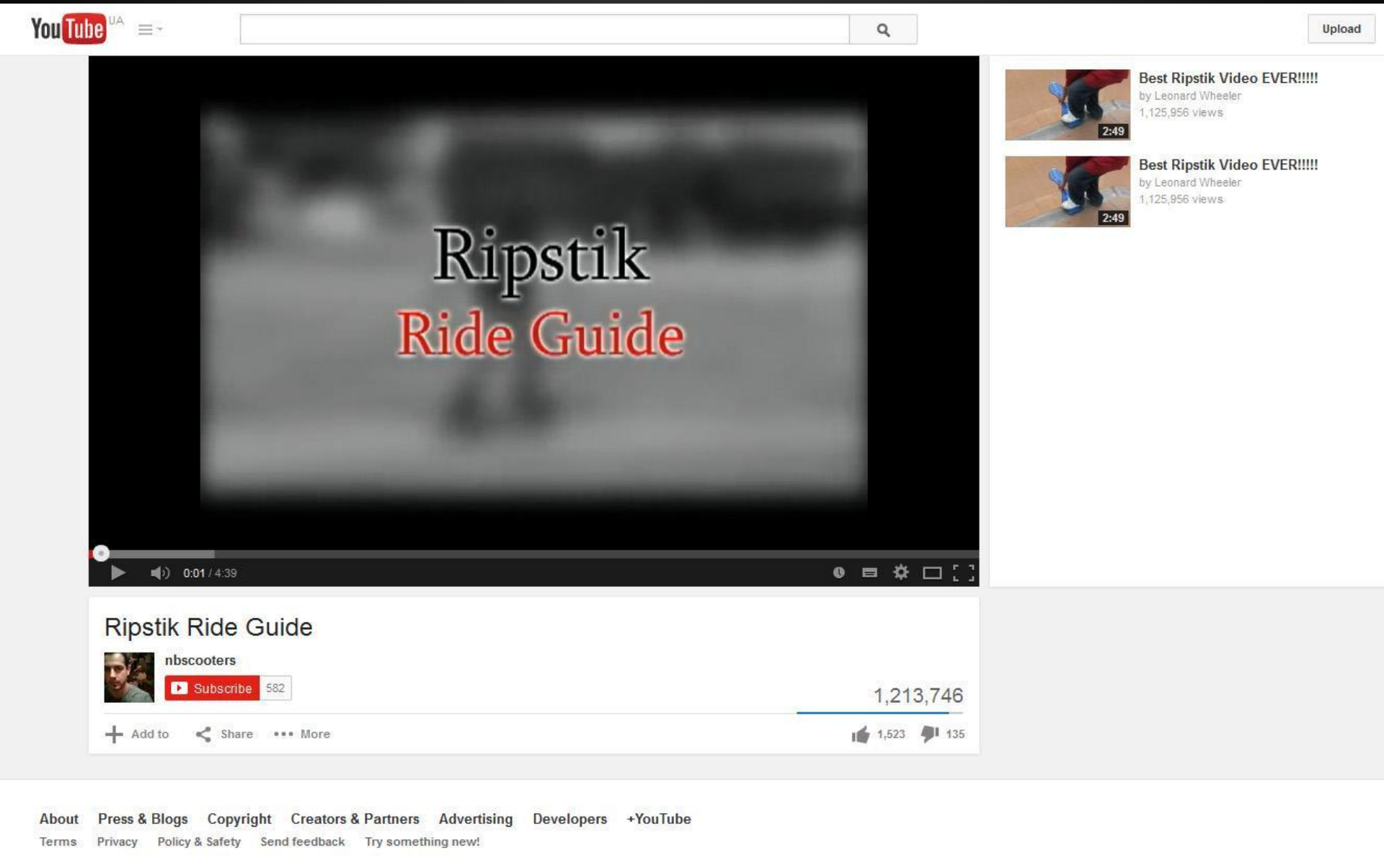
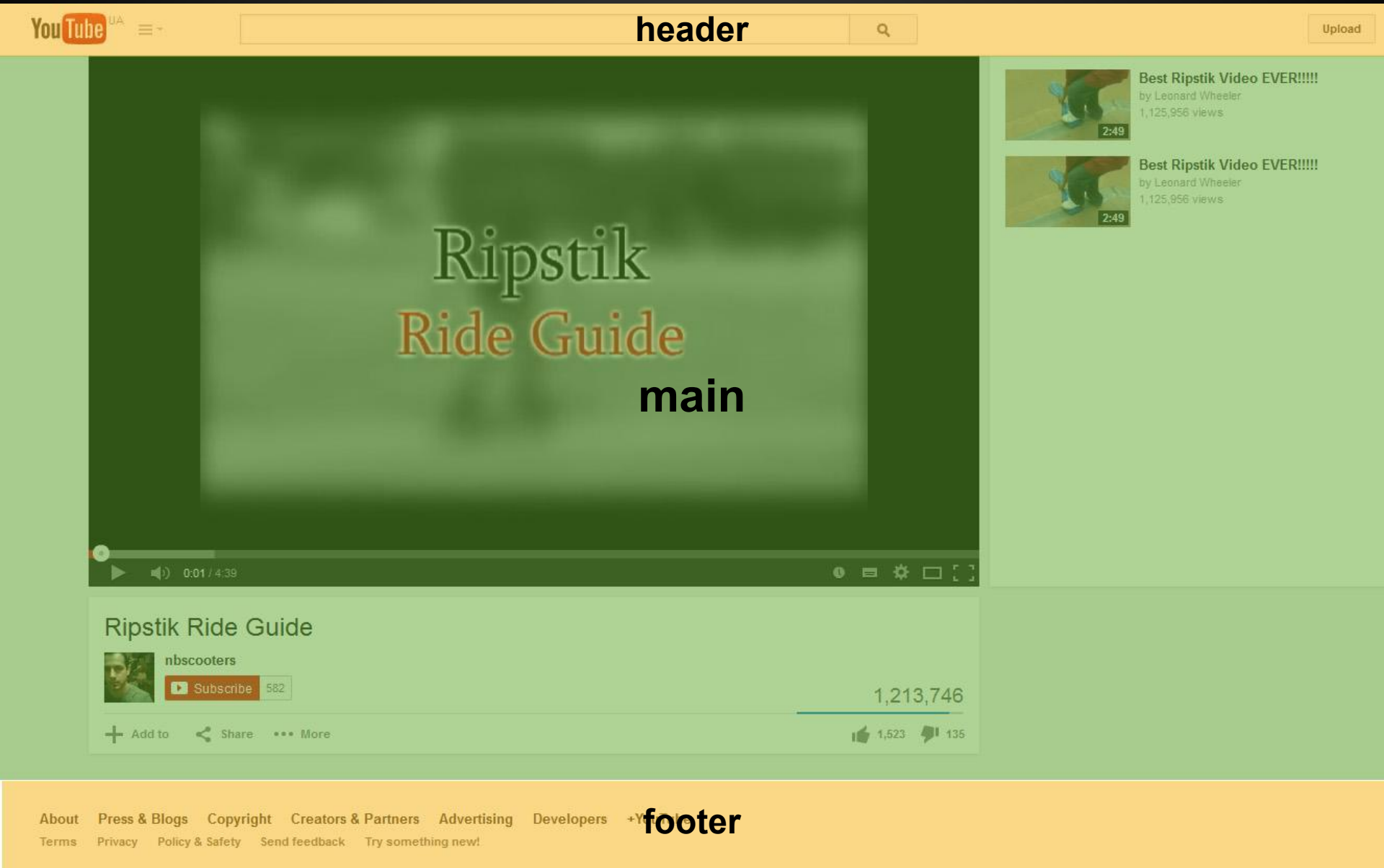
        <title>Title of the document</title>
        <link media="all" rel="stylesheet" href="css/all.css">
        <script type="text/javascript" src="js/main.js"></script>
    </head>
    <body>
        The content of the document......
    </body>
</html>
```

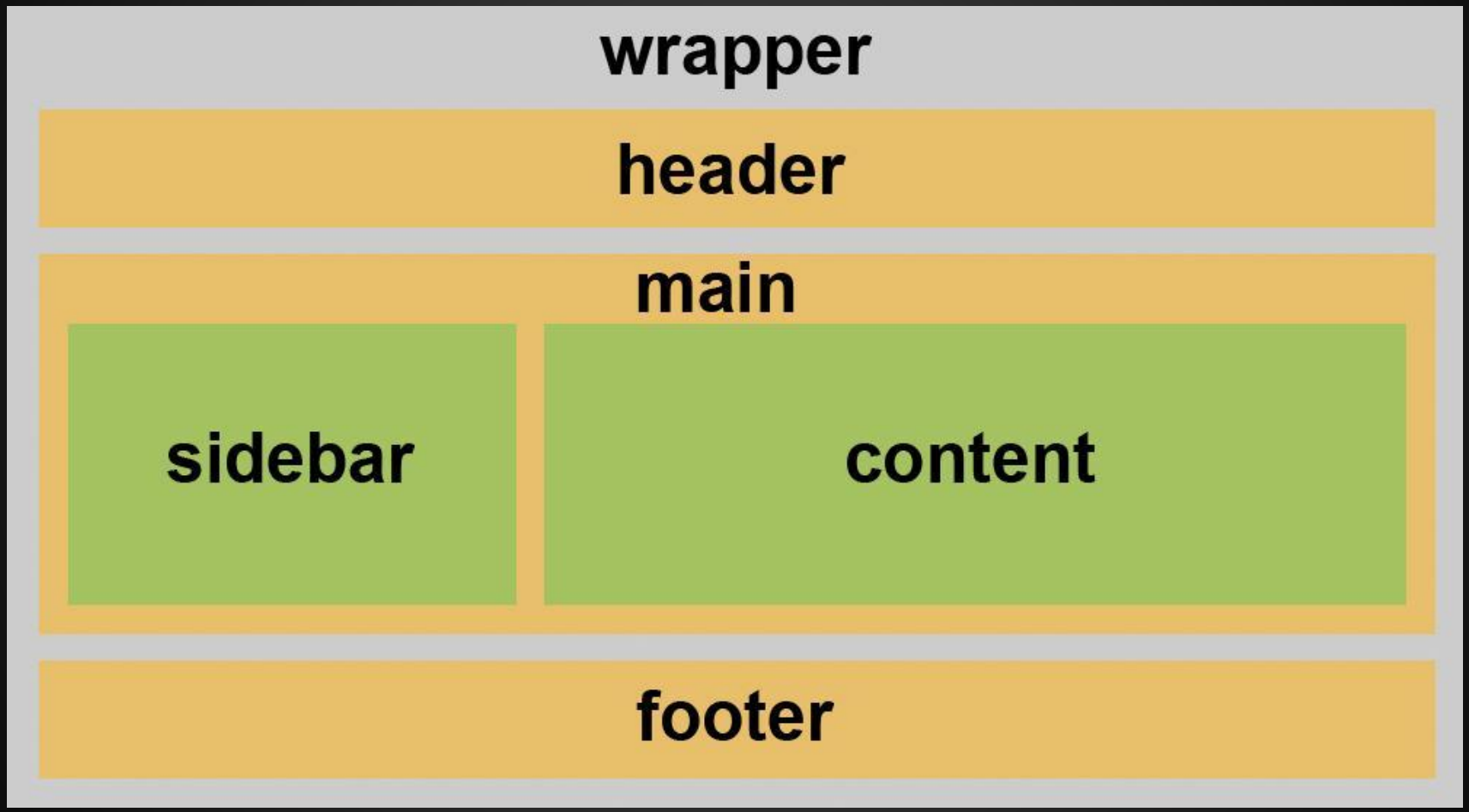
Page Structure



Page Structure



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>
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Semantic Markup

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<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 <em>emphasized</em> to mark them as <strong>particularly important</strong>.</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>

<ul>
    <li>A list signals that a group of items are conceptually related to each other</li>
    <li>Lists may be ordered (numbered or alphabetic) or unordered (bulleted items)</li>
    <li>Lists may also be menus or lists of links for navigation </li>
    <li>Cascading Style Sheets can make lists look many different ways</li>
</ul>
```

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

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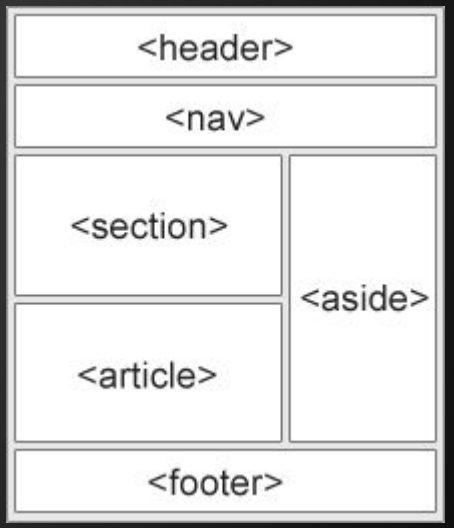

When you write semantic html!

When you don't!