Introduction to CSS3







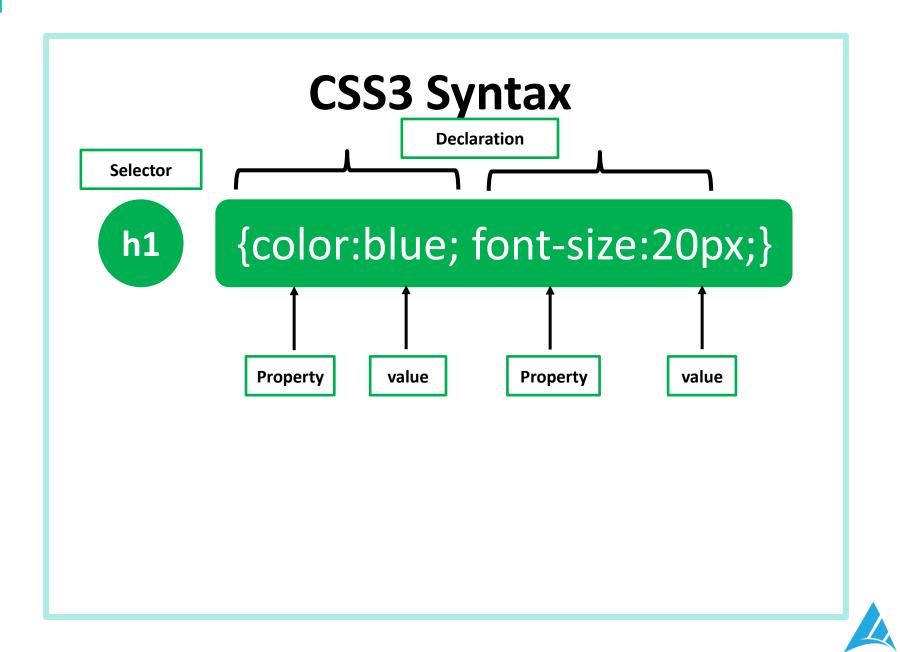
What is CSS3

What is **CSS3**?

- •CSS stands for Cascading Style Sheets
- •CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- •CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files







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CSS3 Types

Three Ways to Insert CSS
There are three ways of inserting a style sheet:

External CSS
Internal CSS
Inline CSS





CSS3 selectors

CSS Selectors

CSS selectors are used to "find" (or select) the HTML elements you want to style.

We can divide CSS selectors into five categories:

Simple selectors (select elements based on name, id, class)

Combinator selectors (select elements based on a specific relationship

between them)

Pseudo-class selectors (select elements based on a certain state)

Pseudo-elements selectors (select and style a part of an element)

Attribute selectors (select elements based on an attribute or attribute value)





CSS3 Colors

Colors are specified using predefined color names, or RGB, HEX, HSL, RGBA values.





CSS3 Background

In these chapters, you will learn about the following CSS background properties:

- background-color
- background-image
- background-repeat
- background-attachment
- background-position
- Background-size





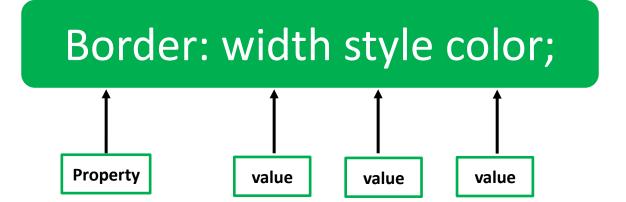
CSS3 Borders

A dashed border.		
A dashed border.		
A solid border.		
A double border.		
A groove border. The effect depends on the border-color va	lue.	
A ridge border. The effect depends on the border-color valu	e.	
An inset border. The effect depends on the border-color val	ue.	
An outset border. The effect depends on the border-color va	alue.	
No border.		
A hidden border.		





CSS3 Border-Property shortcut







CSS3 outline

- dotted Defines a dotted outline
- dashed Defines a dashed outline
- •solid Defines a solid outline
- double Defines a double outline
- •groove Defines a 3D grooved outline
- ridge Defines a 3D ridged outline
- •inset Defines a 3D inset outline
- outset Defines a 3D outset outline
- none Defines no outline
- hidden Defines a hidden outline





CSS3 Margins & Padding

The CSS margin properties are used to create space around elements, outside of any defined borders.

With CSS, you have full control over the margins. There are properties for setting the margin for each side of an element (top, right, bottom, and left).

The CSS padding properties are used to generate space around an element's content, inside of any defined borders. With CSS, you have full control over the padding. There are properties for setting the padding for each side of an element (top, right, bottom, and left).





Example of Margin & Padding

```
margin –
border –
padding –
- 858×8791.130 – – –
-
```





Margin & Padding

Margin - Individual Sides CSS has properties for specifying the margin for each side of an element:

- •margin-top
- •margin-right
- •margin-bottom
- •margin-left

Padding - Individual Sides CSS has properties for specifying the margin for each side of an element:

- Padding-top
- Padding-right
- Padding-bottom
- Padding-left





Margin & Padding shortcut

Margin

Margin: top right bottom left; Padding: top right bottom left;

Padding





Height & Width

height and width

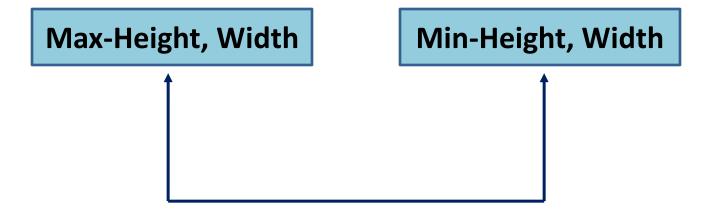
The height and width properties are used to set the height and width of an element.

The height and width properties do not include padding, borders, or margins. It sets the height/width of the area inside the padding, border, and margin of the element.





CSS Min, Max Property







CSS3 Text Color

```
| <style>
| h1 {
| color: ■pink;
| }
| </style>
| </head>
| <h0dy>
| <h1>Hello world</h1>
| </body>
| </html>
```





Text Formatting





Text Alignment

Text Alignment

The text-align property is used to set the horizontal alignment of a text.

A text can be left or right aligned, centered, or justified.





Text Alignment

```
<style>
     h1 {
       text-align: center; 	
     h2 {
       text-align: left;
     h3 {
       text-align: right;
   </style>
 </head>
 <body>
   <h1>this is h1</h1>
   <h2>this is h2</h2>
   <h2>this is h3</h2>
 </body>
</html>
```





Text Decoration

```
<style>
     h1 {
       text-decoration: underline; 	
     h2 {
       text-decoration: wavy;
     h3 {
       text-decoration: line-through;
   </style>
 </head>
 <body>
   <h1>this is h1</h1>
   <h2>this is h1</h2>
   <h3>this is h1</h3>
 </body>
</html>
```





Text Decoration

```
<style>
     h1 {
       text-decoration: underline;
     h2 {
       text-decoration: wavy;
     h3 {
       text-decoration: line-through;
     a {
       text-decoration: none;
   </style>
 </head>
 <body>
   <h1>this is h1</h1>
   <h2>this is h1</h2>
   <h3>this is h1</h3>
   <a href="#">Youtube.com</a>
 </body>
</html>
```



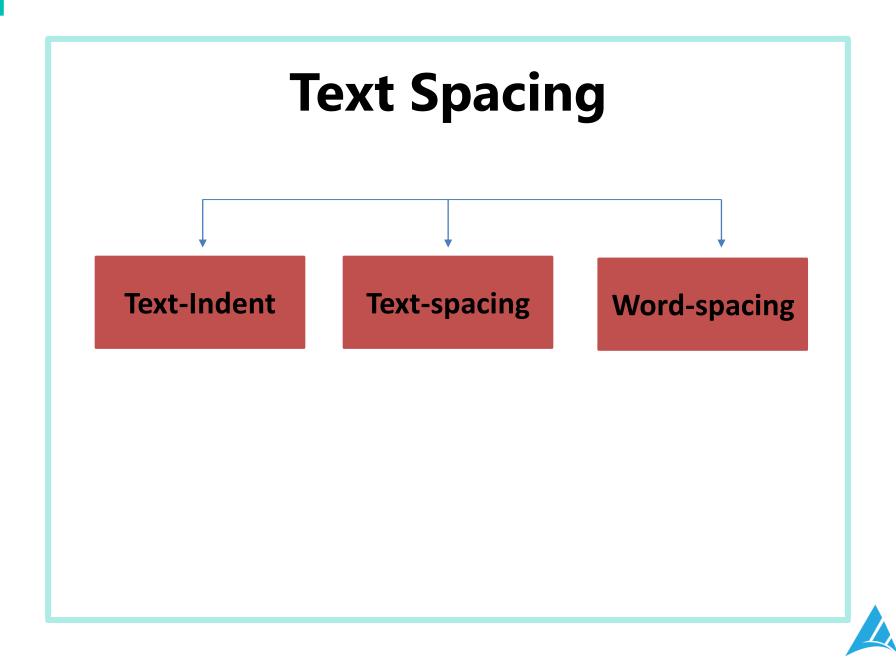


Text Transformation

```
<style>
     h4 {
       text-transform: uppercase;
     h4 {
       text-transform: lowercase;
     h4 {
       text-transform: capitalize;
   </style>
 </head>
 <body>
   <h4>Hello world</h4>
   <h4>Hello world</h4>
   <h4>Hello world</h4>
 </body>
</html>
```







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CSS Fonts-Family

Use google Link and Import

Download Fonts

Use basics Fonts





CSS icons

Website icons are visual cues that help communicate concepts on your website pages, they can act as a visual language to prevent the user from interpreting a concept incorrectly and to ensure effective communication. Part of great website design are the icons you use on your website.





CSS Display Property







CSS Positioning

Static

An element with position: static; is not positioned in any special way; it is always positioned according to the normal flow of the page

Relative

An element with position: Relative; is positioned related to its real position.

Absolute

An element with position:absoute; is positioned relative to the nearest positioned ancestor(instead of positioned relative to the viewport, like fixed.)

Fixed

An element with position :fixed; is positioned relative to the viewport, which means it always stays in the same place even if the page is scrolled. The top, right, bottom, and left properties are used to position the element.

Sticy

An element with position: sticy; is positioned based on the user's scroll position.





CSS Layout - The z-index Property









CSS Overflow

- visible Default. The overflow is not clipped. The content renders outside the element's box
- hidden The overflow is clipped, and the rest of the content will be invisible
- •scroll The overflow is clipped, and a scrollbar is added to see the rest of the content
- auto Similar to scroll, but it adds scrollbars only when necessary





CSS Layout - float and

The CSS float property specifies how an element should float.

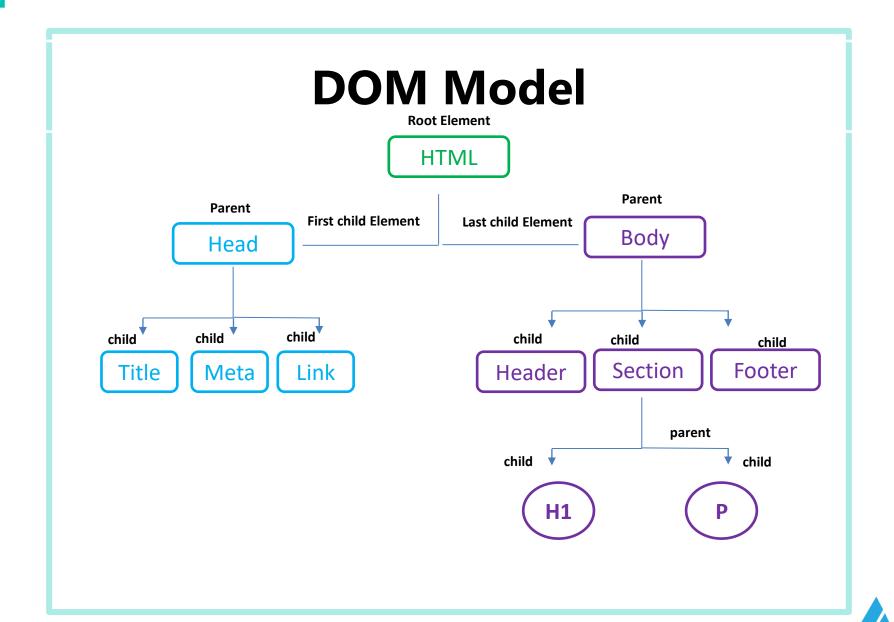
The CSS clear property specifies what elements can float beside the cleared element and on which side.

Left

Right







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CSS Advance Selectors

descendant selector (space)

child selector (>)

adjacent sibling selector (+)

general sibling selector (~)

descendant selector (space)

The descendant selector matches all elements that are descendants of a specified element.

child selector (>)

The child selector selects all elements that are the children of a specified element.

adjacent sibling selector (+)

The adjacent sibling selector is used to select an element that is directly after another specific element.

Sibling elements must have the same parent element, and "adjacent" means "immediately following".

general sibling selector (~)

The general sibling selector selects all elements that are next siblings of a specified element.





Pseudo-classes

A pseudo-class is used to define a special state of an element.

For example, it can be used to:

Style an element when a user mouses over it Style visited and unvisited links differently Style an element when it gets focus





Pseudo-classes

:first-child

:link

:enabled

:last-child

:hover

:invalid

:nth-child

:active

:read-only

:nth-last-child()

:target

:valid

:nth-of-type()

:focus

:required

:empty

:checked

:not()

:disabled





Pseudo-elements

::placeholder

The ::placeholder selector selects form elements with placeholder text, and let you style the placeholder text. The placeholder text is set with the placeholder attribute, which specifies a hint that describes the expected value of an input field.

::after

The ::after pseudo-element can be used to insert some content after the content of an element.

::selection

The ::selection pseudo-element matches the portion of an element that is selected by a user.

::marker

The ::marker pseudo-element selects the markers of list items.





Opacity & important

The opacity property specifies the opacity/transparency of an element.

The !important rule in CSS is used to add more importance to a property/value than normal. In fact, if you use the !important rule, it will override ALL previous styling rules for that specific property on that element!





Border-Radius

The CSS border-radius property defines the radius of an element's corners.

Tip: This property allows you to add rounded corners to elements!

- 1. Rounded corners for an element with a specified background color:
- 2. Rounded corners for an element with a border:
- 3. Rounded corners for an element with a background image:





Box-Shadow

The **box-shadow** property attaches one or more shadows to an element.





Grid System

The CSS Grid Layout Module offers a grid-based layout system, with rows and columns, making it easier to design web pages without having to use floats and positioning.





Grid properties

Grid-template-rows

Justify-items

Grid-row-start

Grid-template-columns

Grid-row-end

Grid-template-areas

Justify-self

Grid-column-start

Grid-row-gap

align-items

Grid-column-end

Grid-column-gap

Grid-row

Grid-gap

align-self

Grid-column



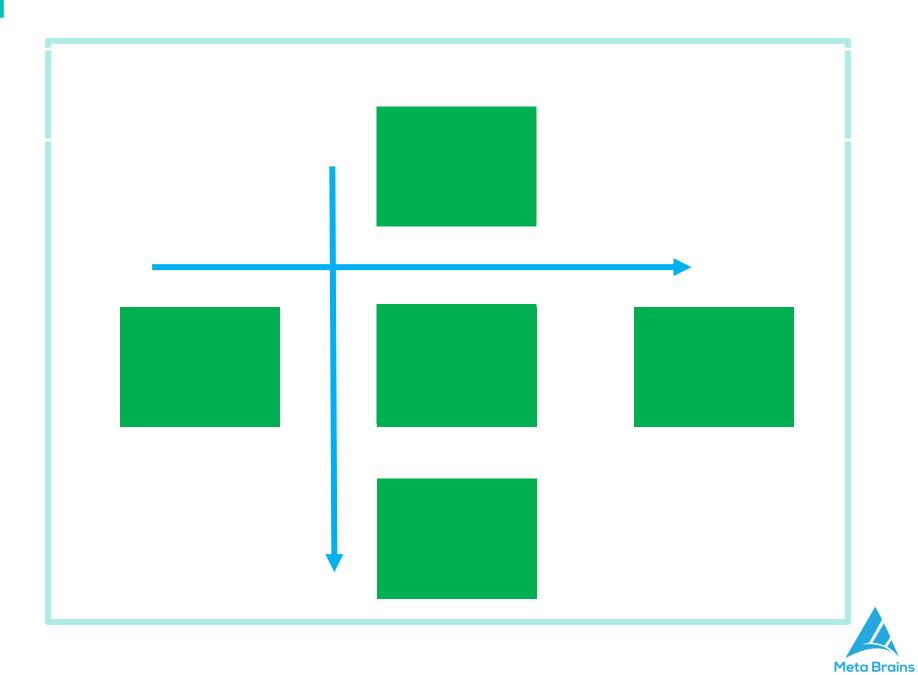


Flexbox

The flex property sets the flexible length on flexible items. Note: If the element is not a flexible item, the flex property has no effect.









Flex properties

Flex-direction

Flex-wrap

Flex-flow

Flex-grow

Justify-content

Align-content

order

Align-self

align-items





Media Queries

All

Screen

Print

Speech





Syntax of Media Queires

@media screen and (max-width:200px){CSS properties}

