

# CSS - Box Model and Display

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# CSS Font Family

## Generic Font Families

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- Serif
- Sans-serif
- Monospace
- Cursive
- Fantasy

## Font Size

font-style: normal | italic

font-size: small | smaller | medium | large | larger

font-weight: bold | bolder | normal

## 4 Common CSS properties (by group)

### TEXT:

color  
font  
font-family  
font-size  
font-weight  
letter-spacing  
line-height  
text-align  
text-decoration  
text-indent  
text-transform  
vertical-align

### LIST:

list-style  
list-style-image  
list-style-position  
list-style-type

### BACKGROUND:

background  
background-attachment  
background-color  
background-image  
background-position  
background-repeat

### DISPLAY:

display  
float  
clear  
overflow  
visibility

### OTHER:

cursor

margin

border

padding

content

### BOX:

border  
border-color  
border-style  
border-width  
height  
margin  
padding  
width  
box-sizing

### POSITION:

position  
top  
bottom  
left  
right  
z-index

# CSS Borders

## CSS Border

Allows to specify the style, width, colour of an element's border

border-style

Solid, dotted, dashed, groove, ridge, none, hidden

border-width

border-width: 5px 20px; /\* 5px top and bottom, 20px on the sides \*/

border-width: 20px 5px; /\* 20px top and bottom, 5px on the sides \*/

border-width: 25px 10px 4px 35px; /\* 25px top, 10px right, 4px bottom and 35px left \*/

border-color

border-color: green;

border-color: red green blue yellow; /\* red top, green right, blue bottom and yellow left \*/

CSS Border - individual side

border-top-style: dotted;  
border-right-style: solid;  
border-bottom-style: dotted;  
border-left-style: solid;

CSS Border - Shorthand

border: 5px solid red;

border-left: 6px solid red;

border-bottom: 6px solid red;

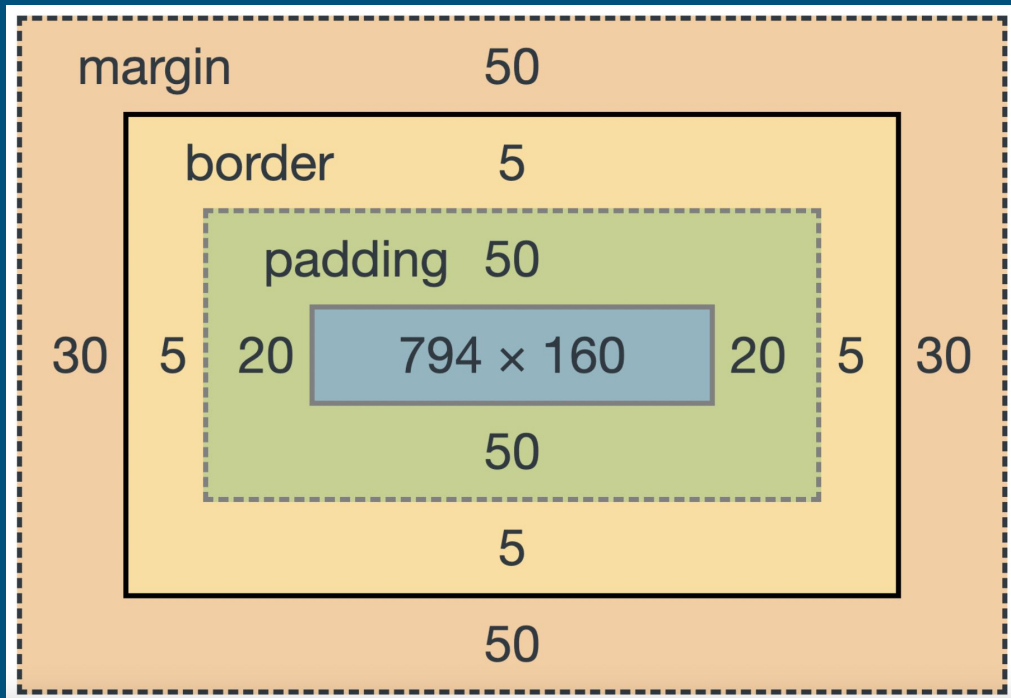
Rounded Borders

border: 2px solid red;  
border-radius: 5px;

## CSS Box Model

CSS box model consists of

- Margins
- Borders
- Paddings and
- The actual content



IMP Property: **box-sizing: border-box**

This property sets how the total width and height of an element is calculated

Note: Default value for this property is content-box

## CSS Margins

- Used to create space around elements, outside of any defined borders

## CSS Padding

- Used to create space around an elements content, inside of any defined borders

# CSS Margins

- Used to create space around elements, outside of any defined borders

## - Margins - Individual sides

- margin-top
- margin-right
- margin-bottom
- Margin-left
- Margin:auto → Horizontally center the element within its container

## - Margin -Shorthand Property:

- margin:20px 30px 15px 25px → top-20px, right-30px, bottom-15px, left-25px
- margin:10px 20px 30px → top-10px, right and left - 20px, bottom-30px
- margin:10px 15px → top and bottom 10px, left and right 15px
- Margin: 5px → All four sides 5px each

# CSS Margin Collapse

- Sometimes two margins collapse into a single margin
- Top and Bottom margins of elements are sometimes collapsed into a single margin that is equal to the largest of the two margins.
- Note: This does not happen on left and right margins. Only top and bottom margins
- Example:



# CSS Padding

- Used to create space around an elements content, inside of any defined borders
- Margins - Individual sides
  - padding-top
  - padding-right
  - padding-bottom
  - padding-left
- Margin -Shorthand Property:
  - padding:20px 30px 15px 25px
  - padding:10px 20px 30px → top-10px, right and left - 20px, bottom-30px
  - padding:10px 15px → top and bottom 10px, left and right 15px
  - padding: 5px → All four sides 5px each

## CSS Height and Width

- height and width properties are used to set the height and width of an element
- max-width property is used to set the maximum width of an element

### CSS Height and Width Values:

- auto: This is default. The browser calculates the height and width
- length: Defined the height and width in px, cm
- %: Defines the height/width in the percentage of the containing block
- initial: Sets the height/width to its default value
- inherit: The height/width will be inherited from it's parent

# The 'display' Property

- Specifies how an element is displayed.
- Note: Every element has a default display value depending on what type of element it is.
  - none
  - block
  - inline
  - inline-block

## Chrome Extension - Pesticide

→ Install and pin it on browser so that whenever we want to see the our html developed page element's outline, we can click on it and see.

Shortcut to get random text → lorem5, loremN

## Example of **block** elements

- Paragraph → <p>
- Heading → <h1> to <h6>
- List → <ol>, <ul> and <li>
- Table → <table> and <tr>
- Forms → <form>
- Semantic Tags → <nav>, <header>, <footer>

## Example of **inline** elements

- Text Formatting tags → <strong>, <i>, <b>, <sup>, <sub>, <u>
- span → <span>
- Images → <img>
- Anchor → <a>
- Form → <label>, <input>, <button>, <textarea>
- Media Tags → <video>, <audio>

## Example of **inline-block** elements

-

# display

## IMP points

The display property specifies how an element should be displayed.

Every HTML element has a default display value depending on what type element it is. We can override it.

## none

This is commonly used in JS to hide and show elements without deleting and recreating them

## block

A block-level elements always start on a new line and occupy the full width available. Also we can set width and height

Example: `<div>`, `<p>`, `<h1>` to `<h6>`, `<header>`, `<footer>`, `<section>`

## inline

An inline elements doesn't start on a new line and only occupy just the width it requires. We can't set the width and height

Example: `<span>`, `<a>`, `<img>`

## Inline-block

A 'inline-block' does not start on a new line but we can set width and height

## display:none vs visibility:hidden

`display:none` property hide element and the page will be displayed as if the element is not there

`visibility:hidden` property also hides an element but element will still take up the same space as before

Inline elements take up as little space as possible, flow horizontally, & can't have their width or height manually adjusted. eg: span

```
.element {  
  display: inline;  
}
```

takes only needed space but width and height cannot be adjusted

inline

inline

Block-level elements take up the full width of their container with line breaks before and after, and can have their height and width manually adjusted. eg: div

```
.element {  
  display: block;  
}
```

takes full width

block

width and height can be adjusted

block

# inline-block

Sometimes you might have extra stuff and may require extra space. inline-block are those adaptable guys who adjust their spacing and let others sit next in the available space

```
.element {  
    display: inline-block;  
}
```

**Note:** These elements appears next to each other and it's allowed to set the width and height

inline-block

inline-block

# The visibility property

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visibility:hidden

display:none

display:none vs visibility:hidden

display:none property hide element and the page will be displayed as if the element is not there

visibility:hidden property also hides an element but element will still take up the same space as before