

Session-05



CSS Basics

**Thanos is on a mission to make his website standout
from his rest of universe**

Agenda : CSS Basics



HTML



HTML + CSS



HTML + CSS
+ JAVASCRIPT

01

CSS Intro

02

CSS Selectors(Basic+
Advanced)

03

Box Model & Properties

04

All about width & height

05

Positioning, Fonts,
Alignment

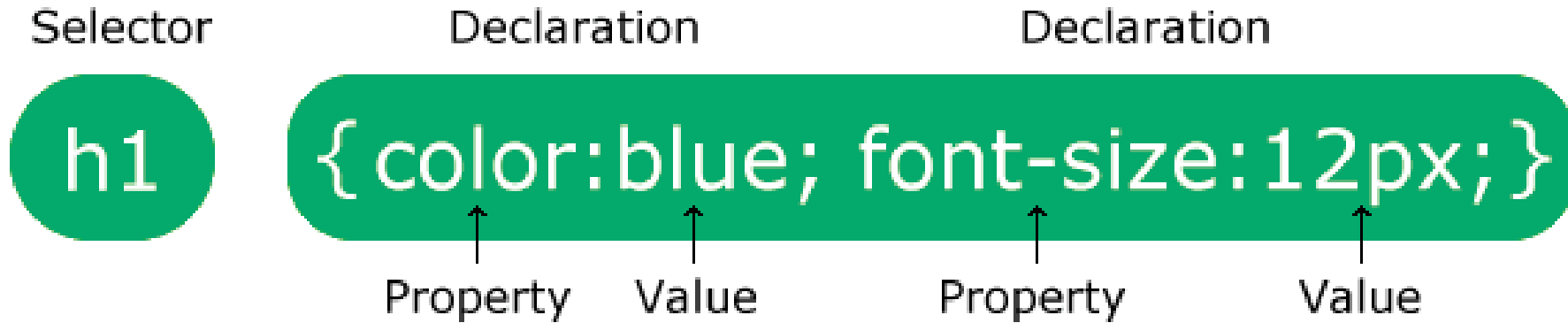
06

Hands-On on portfolio
website

CSS Intro

- CSS stands for **Cascading Style Sheets**
- CSS is the language we use **to style an HTML document.**
- CSS describes **how HTML elements should be displayed.**

CSS Syntax



- The declaration block contains one or more declarations
- Each declaration includes a CSS property name and a value

How/where to add a CSS?



Three ways to add a CSS into HTML

- External CSS
- Internal CSS
- Inline CSS

How/where to add a CSS?

Inline CSS

```
<p style="color: blue;">This is a paragraph.</p>
```

Internal CSS

```
<head>  
  <style type = text/css>  
    body {background-color: blue;}  
    p { color: yellow;}  
  </style>  
</head>
```

External CSS

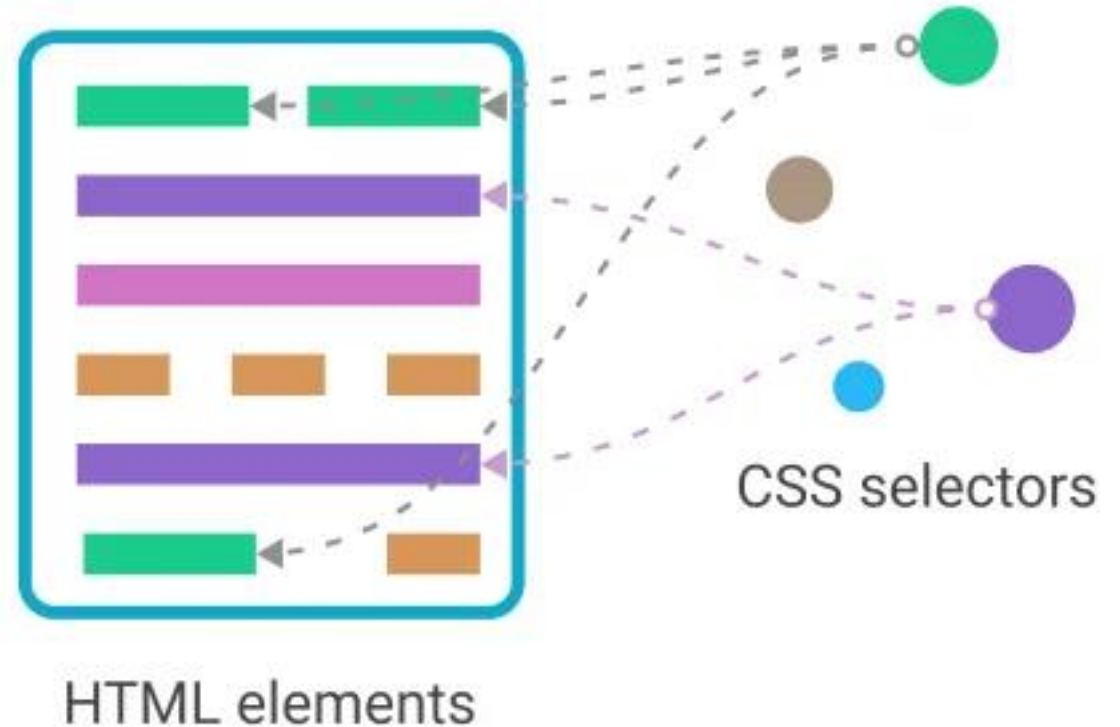
```
<head>  
  <link rel="stylesheet" type="text/css" href="style.css">  
</head>
```

CSS Selectors

Selector

```
p {  
  color: red;  
}
```

CSS selector selects the HTML element(s) you want to style



CSS Simple Selectors

Selectors in CSS

Element Selector

```
h2 {  
  color: #c70039 ;  
}
```

Universal Selector

```
* {  
  color: #c70039 ;  
}
```

ID Selector

```
#content {  
  color: #6E4253;  
  font-size: 15px;  
}
```

Class Selector

```
.main {  
  margin-top: 10px  
  margin-bottom: 10px  
}
```


CSS – Priority order



If we have to do a quick styling hot fix , which one should we use?

Is it a good practice? Why/Why not?

Advanced Selectors- Combinators

Adjacent sibling selector (+)

```
/* Select and style the immediately adjacent <p> element that comes after a  
h1 + p {  
  color: red;  
}
```

General sibling selector (~)

```
/* Select and style all <p> elements that come after an <h1> element */  
h1 ~ p {  
  color: blue;  
}
```

Advanced Selectors- Combinators

Child selector (>)

```
/* Select and style all <li> elements that are immediate children of an <ul>  
ul > li {  
    font-weight: bold;  
}
```

Attribute selector ([])

```
/* Select and style all <a> elements with a "target" attribute */  
a[target] {  
    color: purple;  
}
```

Pseudo Elements/ Classes

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

```
/* mouse over link */  
a:hover {  
    color: #FF00FF;  
}
```

```
/* selected link */  
a:active {  
    color: #0000FF;  
}
```

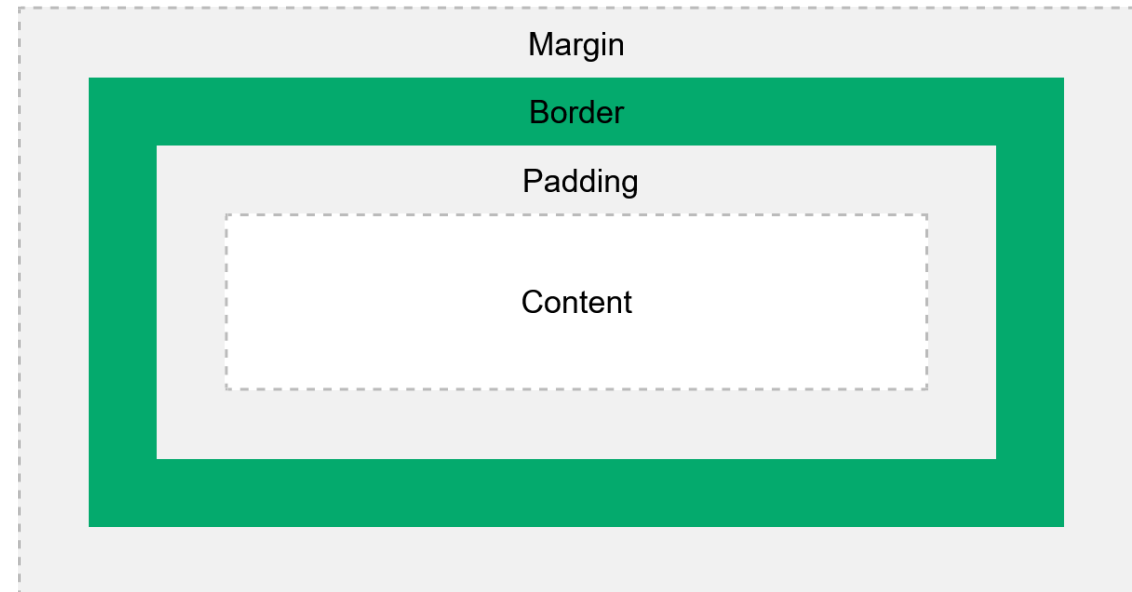
A CSS pseudo-element is used to style specified parts of an element.

```
p::first-line {  
    color: #ff0000;  
    font-variant: small-caps;  
}
```

Box Model

All HTML elements can be considered as boxes.

- CSS box model - a **box that wraps around** element.
- Consists of: **margins, borders, padding, and the content.**

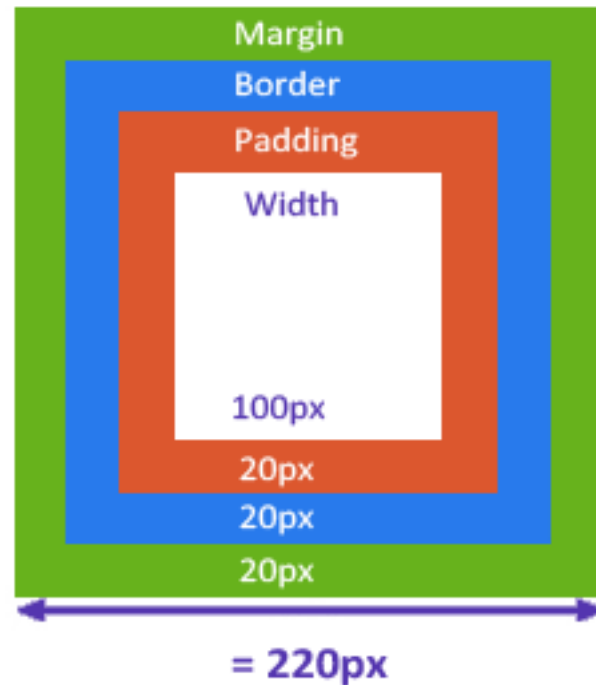


Box Model

CSS3 Box Model

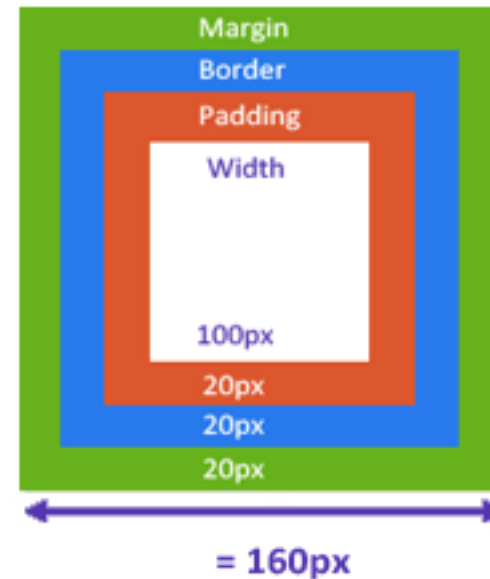
box-sizing : content-box;

Content-box model exclude the
border, padding and margin



box-sizing : border-box;

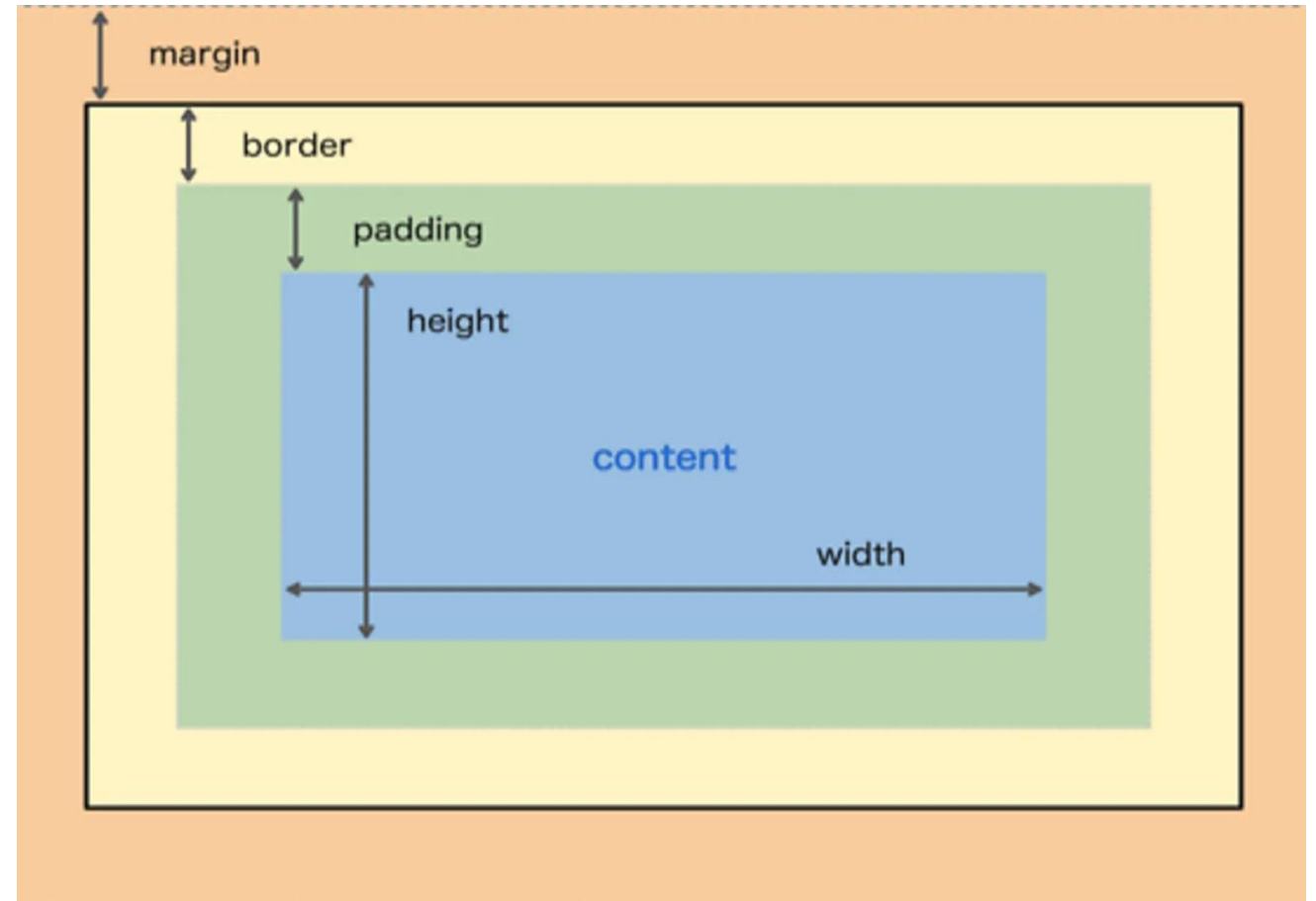
In border-box model all included
inside with (margin, padding, border)



Box Model - Properties

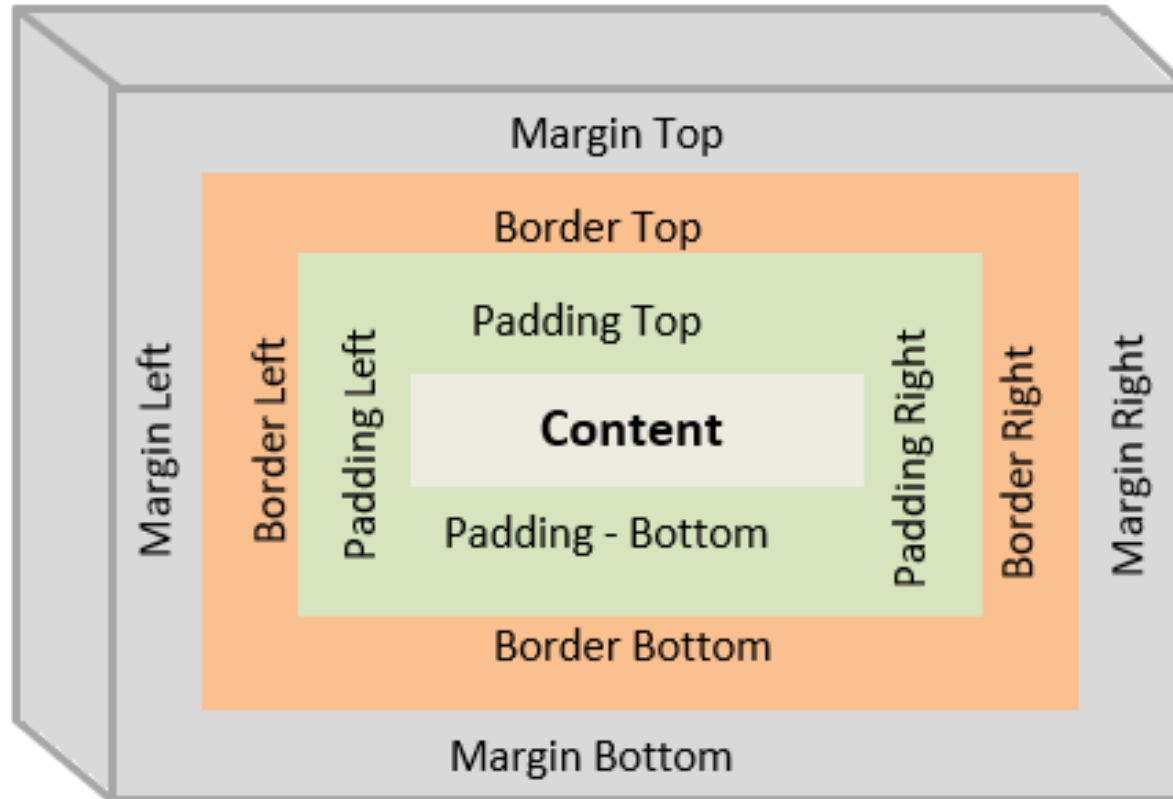
These properties play a key role in design of HTML element

```
/* CSS code for a div with box model properties */  
.box {  
  width: 200px; /* Set the width of the div to 200px */  
  height: 100px; /* Set the height of the div to 100px */  
  padding: 20px; /* Set the padding inside the div to 20px */  
  margin: 10px; /* Set the margin around the div to 10px */  
  border: 1px solid #000; /* Set a border around the div */  
  background-color: #f0f0f0; /* Set the background color to light gray */  
}
```



Box Model - Properties

Deep dive into properties



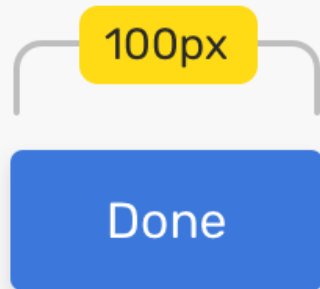
Knowledge check

If we want to style specific part of element like first line or first word, which concept should be applied?

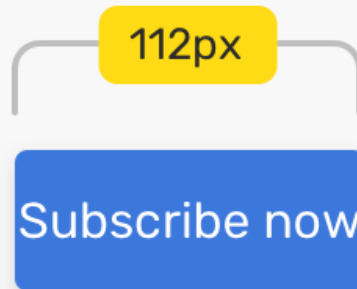
If we want to style specific state of element like hover, which concept should be applied?

Min-width/height

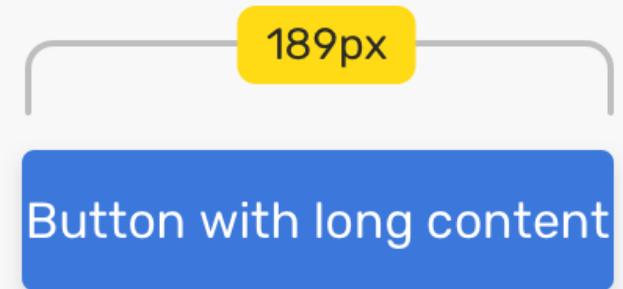
- The "min-width" and "min-height" - the **minimum allowable width** or height of an element
- If the element requires more space than the specified minimum, the element will expand to accommodate the content.
- if the element requires less space than the minimum, the element will still be displayed with the minimum width or height.



min-width: 100px



Button width is extended
due to longer content



Button width is extended
due to longer content

Max-width/height

This looks like a problem!

The "max-width" and "max-height" - the **maximum allowable width or height** of an element

150px

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vitae praesentium nihil repudiandae? Dignissimos illo, asperiores dolor beatae quas fuga voluptas culpa esse amet laudantium quam eius officia laboriosam hic distinctio!

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vitae praesentium nihil repudiandae? Dignissimos illo, asperiores dolor beatae quas fuga voluptas culpa esse amet laudantium quam eius officia laboriosam hic distinctio!

The maximum height is 150px of its parent

Address Max-Width/height-Problems

When you render dynamic content prefer **max-width:100%**



max-width: 100%



Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed. This tutorial will teach you CSS from basic to advanced.

`overflow: visible;`

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is the language we use to style an HTML document. CSS describes how

`overflow: hidden;`

Handling Overflow

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`overflow: scroll;`

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`overflow: auto;`

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is the language we

`overflow-x: scroll;`
`overflow-y: hidden;`

Background properties

property	description
background-color	color to fill background
background-image	image to place in background
background-position	placement of bg image within element
background-repeat	whether/how bg image should be repeated
background-attachment	whether bg image scrolls with page
background	shorthand to set all background properties

Font properties

font-weight: bold

font-style: italic

FONT-VARIANT: SMALL-CAPS

TEXT-TRANSFORM: UPPERCASE

List Style Properties

ORDERED

list-style-type: decimal

1. Muffin candy canes
2. Fruitcake powder cookie
3. Biscuit muffin liquorice

list-style-type: lower-roman

- i. Muffin candy canes
- ii. Fruitcake powder cookie
- iii. Biscuit muffin liquorice

list-style-type: upper-alpha

- A. Muffin candy canes
- B. Fruitcake powder cookie
- C. Biscuit muffin liquorice

list-style-type: lower-latin

- a. Muffin candy canes
- b. Fruitcake powder cookie
- c. Biscuit muffin liquorice

UNORDERED

list-style-type: disc

- Cupcake jelly ice cream
- Dessert candy chocolate bar
- Apple pie jelly beans

list-style-type: square

- Cupcake jelly ice cream
- Dessert candy chocolate bar
- Apple pie jelly beans

list-style-type: circle

- Cupcake jelly ice cream
- Dessert candy chocolate bar
- Apple pie jelly beans

Display

display: block

Content

Content
example

Content
test

Content

display: inline

Content

Content example

Content test

Content

display: inline-block

Longer
example
content

Longer
example
content

Longer
example
content

display: none

display: none



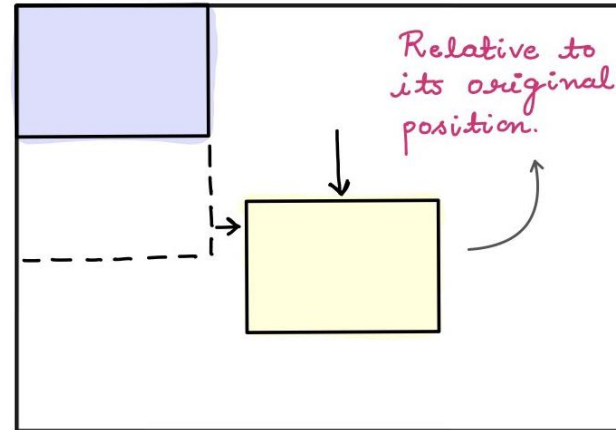
```
.blue-book {  
  display: none;  
}
```

The blue book is removed completely
from the stack

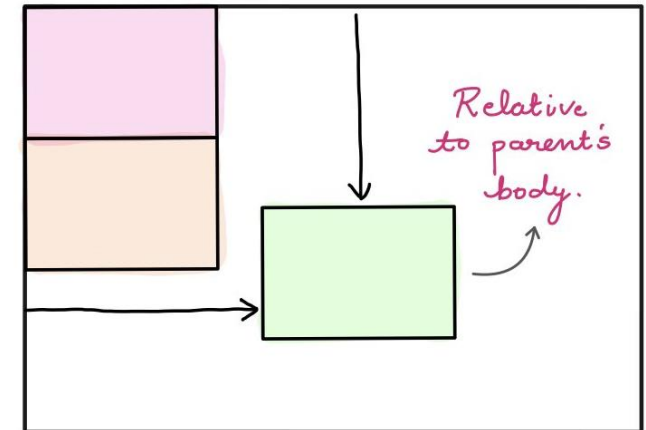
CSS Positioning

```
position: relative;  
position: absolute;  
position: fixed;  
position: sticky;
```

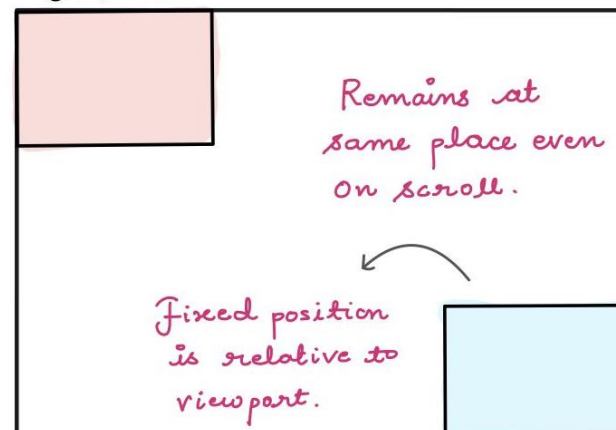
Relative



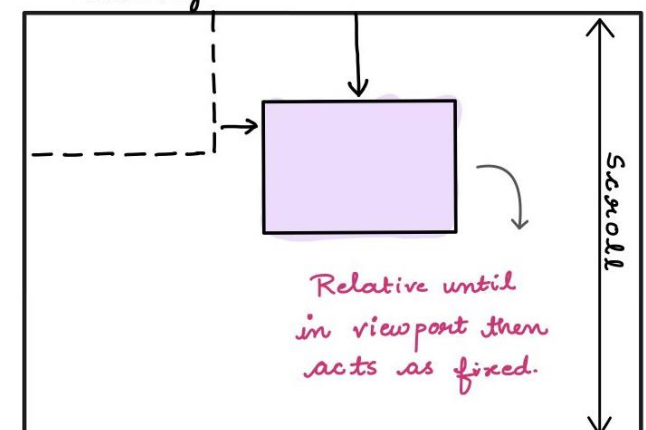
Absolute



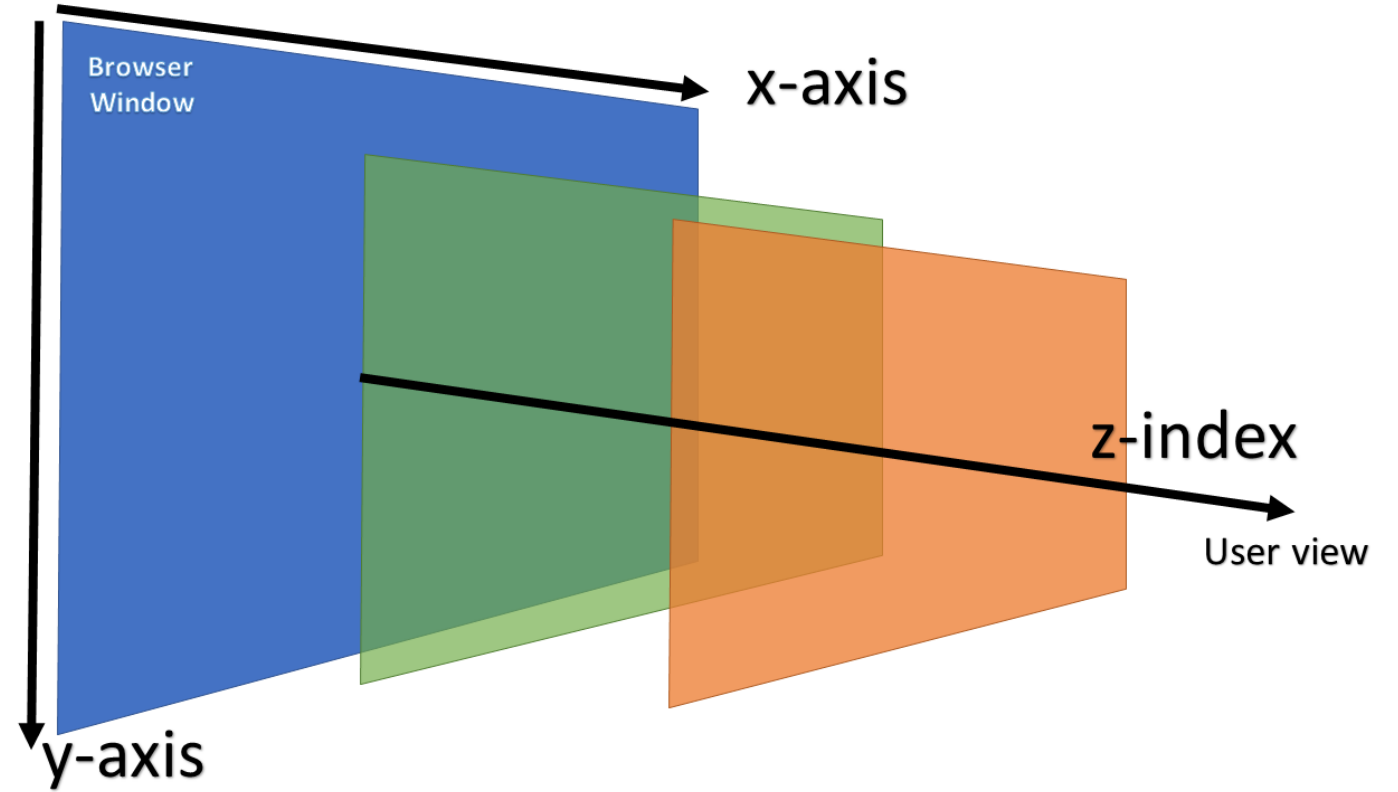
Fixed



Sticky



Z-Index



Z-Index



Highest value always takes-over priority in viewport

Alignment

```
text-align: left;
```

```
text-align: center;
```

```
text-align: right;
```

!Important

the **!important** rule, it will override ALL previous styling rules for that specific property on that element!

```
blockquote * {  
    font-style: italic!important;  
}
```

If all your styles are !important, then none of your styles are important.

Best Practice: Avoid !important

“If you want to learn to swim,
jump into the water.”

–Bruce Lee



Q & A