

Introduction

What is CSS?

- •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

CSS is a language that describes the style of an HTML document.

CSS describes how HTML elements should be displayed.

Why Use CSS?

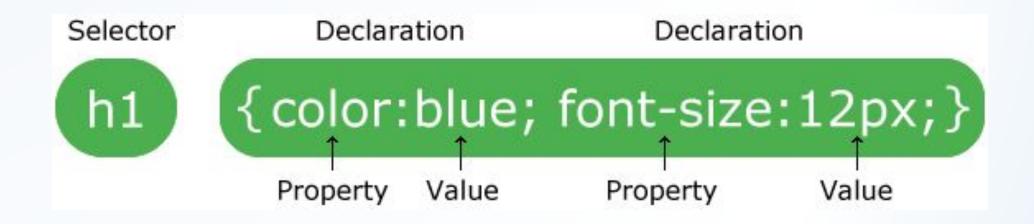
CSS Solved a Big Problem?

CSS Saves a Lot of Work!



CSS Syntax and Selectors

A CSS rule-set consists of a selector and a declaration block:



```
thtml

HTML

css

p {
    color: red;
    cp>These paragraphs are styled with CSS.
    text-align: center;
    chody>
```

Selectors

```
p {
Element Selectors:-
                           text-align: center;
                           color: red;
ID Selectors:-
                       #para1 {
                           text-align: center;
                           color: red;
Class Selectors:-
                       .center {
                           text-align: center;
                           color: red;
Specific Selectors:-
                       p.center {
                           text-align: center;
```

color: red;

```
This paragraph refers to two classes.
```

```
This paragraph refers to two
classes.
```

```
This paragraph refers to two classes.
```

```
This paragraph refers to two classes.
```

Grouping Selectors:-

```
h1, h2, p {
    text-align: center;
    color: red;
}
```

Comments:-

```
p {
    color: red;
    /* This is a single-line comment */
    text-align: center;
}
/* This is
a multi-line
comment */
```

Ways to Insert CSS

Three Ways to Insert CSS

•External style sheet

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

•Internal style sheet

```
<head>
<style>
body { background-color: linen;}
h1 {color: maroon;
    margin-left: 40px;}
</style>
</head>
```

Inline style

```
<h1 style="color:blue;margin-left:30px;">This
is a heading</h1>
```

- 1.Inline style (inside an HTML element)
- 2.External and internal style sheets (in the head section)
- 3. Browser default



background:

| Property | Description |
|-----------------------|---|
| <u>background</u> | Sets all the background properties in one declaration |
| background-attachment | Sets whether a background image is fixed or scrolls with the rest of the page |
| background-clip | Specifies the painting area of the background |
| background-color | Sets the background color of an element |
| background-image | Sets the background image for an element |
| background-origin | Specifies where the background image(s) is/are positioned |
| background-position | Sets the starting position of a background image |
| background-repeat | Sets how a background image will be repeated |
| background-size | Specifies the size of the background image(s) |

border:

| Property | Description | border-radius | Sets all the four border-*-radius properties for rounded corners |
|---------------------|--|--------------------|--|
| <u>border</u> | Sets all the border properties in one declaration | border-right | Sets all the right border properties in one declaration |
| border-bottom | Sets all the bottom border properties in one declaration | border-right-color | Sets the color of the right border |
| border-bottom-color | Sets the color of the bottom border | | _ |
| | | border-right-style | Sets the style of the right border |
| border-bottom-style | Sets the style of the bottom border | border-right-width | Sets the width of the right border |
| border-bottom-width | Sets the width of the bottom border | border-style | Sets the style of the four borders |
| | | border-top | Sets all the top border properties in one declaration |
| border-color | Sets the color of the four borders | | |
| border-left | Sets all the left border properties in one | border-top-color | Sets the color of the top border |
| <u>border-leit</u> | declaration | border-top-style | Sets the style of the top border |
| border-left-color | Sets the color of the left border | | |
| border-left-style | Sets the style of the left border | border-top-width | Sets the width of the top border |
| border-left-width | Sets the width of the left border | border-width | Sets the width of the four borders |

margin:

| Property | Description |
|---------------|---|
| margin | A shorthand property for setting the margin properties in one declaration |
| margin-bottom | Sets the bottom margin of an element |
| margin-left | Sets the left margin of an element |
| margin-right | Sets the right margin of an element |
| margin-top | Sets the top margin of an element |



padding:

| Property | Description |
|----------------|--|
| padding | A shorthand property for setting all the padding properties in one declaration |
| padding-bottom | Sets the bottom padding of an element |
| padding-left | Sets the left padding of an element |
| padding-right | Sets the right padding of an element |
| padding-top | Sets the top padding of an element |

Color Syntax and Types

Colors:-

```
Red/Green/Blue rgb(255, 99, 71)
```

Hexadecimal #ff6347

Hue/Saturation/Lightness hsl(9, 100%, 64%)

Red/Green/Blue/Alpha rgba(255, 99, 71, 0.5)

Hue/Saturation/Lightness/Alpha hsla(9, 100%, 64%, 0.5)



Height and Width

| Property | Description |
|---------------|---------------------------------------|
| <u>height</u> | Sets the height of an element |
| max-height | Sets the maximum height of an element |
| max-width | Sets the maximum width of an element |
| min-height | Sets the minimum height of an element |
| min-width | Sets the minimum width of an element |
| <u>width</u> | Sets the width of an element |

Explaining Box Model

Explanation of the different parts:

- •Content The content of the box, where text and images appear
- •Padding Clears an area around the content. The padding is transparent
- •Border A border that goes around the padding and content
- •Margin Clears an area outside the border. The margin is transparent

```
div {
    width: 300px;
    border: 25px solid green;
    padding: 25px;
    margin: 25px;
}
```



outline:

| Property | Description |
|----------------|---|
| outline | A shorthand property for setting outline-width, outline-style, and outline-color in one declaration |
| outline-color | Sets the color of an outline |
| outline-offset | Specifies the space between an outline and the edge or border of an element |
| outline-style | Sets the style of an outline |
| outline-width | Sets the width of an outline |

text:

| Property | Description |
|---------------------|--|
| color | Sets the color of text |
| direction | Specifies the text direction/writing direction |
| letter-spacing | Increases or decreases the space between characters in a text |
| line-height | Sets the line height |
| text-align | Specifies the horizontal alignment of text |
| text-decoration | Specifies the decoration added to text |
| text-indent | Specifies the indentation of the first line in a text-block |
| text-shadow | Specifies the shadow effect added to text |
| text-transform | Controls the capitalization of text |
| text-overflow | Specifies how overflowed content that is not displayed should be signaled to the user |
| <u>unicode-bidi</u> | Used together with the <u>direction</u> property to set or return whether the text should be overridden to support multiple languages in the same document |
| vertical-align | Sets the vertical alignment of an element |
| white-space | Specifies how white-space inside an element is handled |
| word-spacing | Increases or decreases the space between words in a text |
| | ugi podia |

fonts

Difference Between Serif and Sans-serif Fonts



| Property | Description |
|--------------|--|
| <u>font</u> | Sets all the font properties in one declaration |
| font-family | Specifies the font family for text |
| font-size | Specifies the font size of text |
| font-style | Specifies the font style for text |
| font-variant | Specifies whether or not a text should be displayed in a small-caps font |
| font-weight | Specifies the weight of a font |

Icons

Font Awesome Icons Link

```
<link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.
min.css">
<i class="fa fa-cloud"></i>
<i class="fa fa-heart"></i></i>
<i class="fa fa-car"></i></i>
<i class="fa fa-file"></i></i>
<i class="fa fa-bars"></i></i>
Bootstrap Icons Link
<link rel="stylesheet"</pre>
```

```
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
<i class="glyphicon glyphicon-cloud"></i></i>
<i class="glyphicon glyphicon-remove"></i></i>
<i class="glyphicon glyphicon-user"></i>
<i class="glyphicon glyphicon-envelope"></i></i>
<i class="glyphicon glyphicon-thumbs-up"></i></i>
```

links

```
a:link - a normal, unvisited link
a:visited - a link the user has visited
a:hover - a link when the user mouses over it
a:active - a link the moment it is clicked

Use:- text-decoration: none;
```

display:

display :none vs visibility: hidden

| Value | Description |
|--------------|---|
| inline | Displays an element as an inline element (like). Any height and width properties will have no effect |
| block | Displays an element as a block element (like). It starts on a new line, and takes up the whole width |
| contents | Makes the container disappear, making the child elements children of the element the next level up in the DOM |
| flex | Displays an element as a block-level flex container |
| grid | Displays an element as a block-level grid container |
| inline-block | Displays an element as an inline-level block container. The element itself is formatted as an inline element, but you can apply height and width values |
| inline-flex | Displays an element as an inline-level flex container |
| inline-grid | Displays an element as an inline-level grid container |
| inline-table | The element is displayed as an inline-level table |
| list-item | Let the element behave like a element |
| run-in | Displays an element as either block or inline, depending on context |
| none | The element is completely removed |
| initial | Sets this property to its default value. |
| inherit | Inherits this property from its parent element. |

CSS Layout - width and (max-width, min-width)

```
div.ex1 {
   width: 500px;
    margin: auto;
    border: 3px solid #73AD21;
div.ex2 {
    max-width: 500px;
    margin: auto;
    border: 3px solid #73AD21;
div.ex3 {
    max-width: 500px;
    margin: auto;
    border: 3px solid #73AD21;
```

position:

| Value | Description |
|----------|---|
| static | Default value. Elements render in order, as they appear in the document flow |
| absolute | The element is positioned relative to its first positioned (not static) ancestor element |
| fixed | The element is positioned relative to the browser window |
| relative | The element is positioned relative to its normal position, so "left:20px" adds 20 pixels to the element's LEFT position |
| sticky | The element is positioned based on the user's scroll positionA sticky element toggles between relative and fixed, depending on the scroll position. It is positioned relative until a given offset position is met in the viewport - then it "sticks" in place (like position:fixed). Note: Not supported in IE/Edge 15 or earlier. Supported in Safari from version 6.1 with a -webkit- prefix. |
| initial | Sets this property to its default value. |
| inherit | Inherits this property from its parent element. |



Positioning properties

| Property | Description |
|----------------|--|
| bottom | Sets the bottom margin edge for a positioned box |
| clip | Clips an absolutely positioned element |
| <u>left</u> | Sets the left margin edge for a positioned box |
| position | Specifies the type of positioning for an element |
| right | Sets the right margin edge for a positioned box |
| top | Sets the top margin edge for a positioned box |
| <u>z-index</u> | Sets the stack order of an element |

Responsive Details

| Property | Description |
|-------------------|--|
| box-sizing | Defines how the width and height of an element are calculated: should they include padding and borders, or not |
| clear | Specifies what elements can float beside the cleared element and on which side |
| float | Specifies how an element should float |
| <u>overflow</u> | Specifies what happens if content overflows an element's box |
| <u>overflow-x</u> | Specifies what to do with the left/right edges of the content if it overflows the element's content area |
| overflow-y | Specifies what to do with the top/bottom edges of the content if it overflows the element's content area |



transformation 2d

```
translate():
div {
    -ms-transform: translate(50px, 100px); /* IE 9 */
    -webkit-transform: translate(50px, 100px); /* Safari */
    transform: translate(50px, 100px);
rotate():
div {
    -ms-transform: rotate(20deg); /* IE 9 */
    -webkit-transform: rotate(20deg); /* Safari */
    transform: rotate(20deg);
scale();
div {
    -ms-transform: scale(2, 3); /* IE 9 */
    -webkit-transform: scale(2, 3); /* Safari */
    transform: scale(2, 3);
```

transformation 2d

```
The rotateX() Method
#myDiv {
    -webkit-transform: rotateX(150deg); /* Safari */
    transform: rotateX(150deg);
The rotateY() Method
#myDiv {
    -webkit-transform: rotateY(130deg); /*
Safari */
    transform: rotateY(130deg);
The rotateZ() Method
#myDiv {
    -webkit-transform: rotateZ(90deg); /*
Safari */
    transform: rotateZ(90deg);
```

Transition

```
div:hover {
  width: 300px;
  width: 100px;
}
  height: 100px;
  background: red;
  -webkit-transition: width 2s; /* For Safari 3.1 to 6.0 */
  transition: width 2s; }
```

| Property | Description |
|----------------------------|--|
| transition | A shorthand property for setting the four transition properties into a single property |
| transition-delay | Specifies a delay (in seconds) for the transition effect |
| transition-duration | Specifies how many seconds or milliseconds a transition effect takes to complete |
| transition-property | Specifies the name of the CSS property the transition effect is for |
| transition-timing-function | Specifies the speed curve of the |



Media Query

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
    box-sizing: border-box;
                           .col-1 {width: 8.33%;}
                           .col-2 {width: 16.66%;}
                           .col-3 {width: 25%;}
                           .col-4 {width: 33.33%;}
                           .col-5 {width: 41.66%;}
                           .col-6 {width: 50%;}
                           .col-7 {width: 58.33%;}
                           .col-8 {width: 66.66%;}
                           .col-9 {width: 75%;}
                           .col-10 {width: 83.33%;}
                           .col-11 {width: 91.66%;}
                           .col-12 {width: 100%;}
```

Media Query

```
@media only screen and (max-width: 600px) {
    body {
        background-color: lightblue;
/* Extra small devices (phones, 600px and down) */
@media only screen and (max-width: 600px) {...}
/* Small devices (portrait tablets and large phones, 600px and up) */
@media only screen and (min-width: 600px) {...}
/* Medium devices (landscape tablets, 768px and up) */
@media only screen and (min-width: 768px) {...}
/* Large devices (laptops/desktops, 992px and up) */
@media only screen and (min-width: 992px) {...}
/* Extra large devices (large laptops and desktops, 1200px and up) */
@media only screen and (min-width: 1200px) {...}
```

Thank You 😂