CSS PROPERTIES & USEFUL CONCEPTS

CSS COLOR VALUES

CSS supports multiple ways of setting color values

All modern browsers support a set of 140 standard color names

Another way to set color values is through hex (hexadecimal) color codes - RGB encoding using letters A-F and numbers 0-9

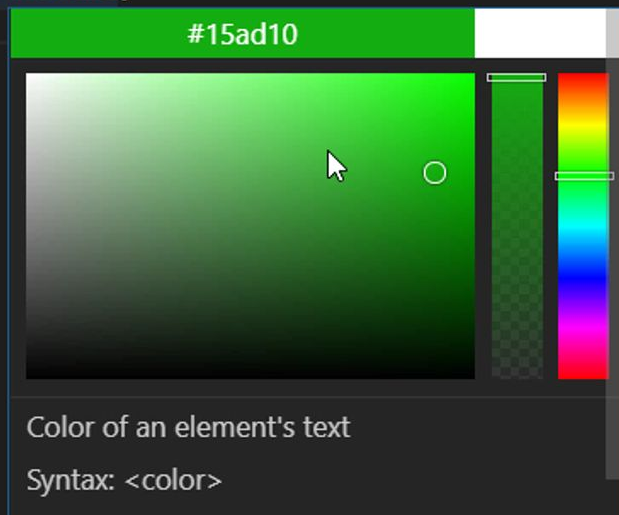Hex color codes are always prefaced with #

Example: #000000 is black, #ffffff is white

Search online for "css color picker" or use VS Code's

example.css ✕

```css
1   p {
2       color: #15ad10;
3   }
```

#15ad10

Color of an element's text

Syntax: <color>

THE <span> ELEMENT

Non-semantic HTML element with no default meaning or style

Use as a hook for a class or ID without any unwanted side effects

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <title>CSS Demo</title>
    <style>
        .red-text {
            color: red;
        }
    </style>
</head>
<body>
    <p>I wish some of this text was <span
    class="red-text">colored red.</span></p>
</body>
</html>
```

I wish some of this text was colored red.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <title>CSS Demo</title>
    <style>
        .red-text {
            color: red;
        }
    </style>
</head>
<body>
    <p>I wish some of this text was <div
    class="red-text">colored red.</div></p>
</body>
</html>
```

I wish some of this text was

colored red.

css-demo.html

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="utf-8" />
5       <title>CSS Demo</title>
6       <style>
7           div {
8               width: 100px;
9           }
10      </style>
11  </head>
12  <body>
13      <div>CSS Box Model</div>
14  </body>
15  </html>
```
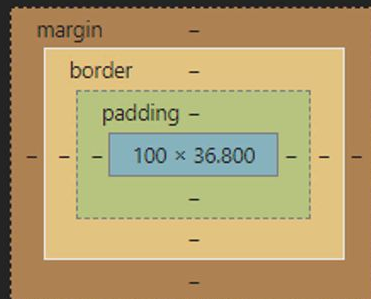
CSS Demo

127.0.0.1:5501/css-demo.html

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CSS Box Model

Elements Console

```
<!doctype html>
<html lang="en">
  ▶ <head>…</head>
  ▼ <body>
      <div>CSS Box Model</div> == $0
```

html body div

Styles Computed Event Listeners

margin   –
  border   –
    padding   –
      100 × 36.800
                   –
               –
           –

Filter   ☐ Show all

▶ color   ■rgb(0, 0, 0)
▶ display   block
  height   36.8px
▶ width   100px

CSS Demo

127.0.0.1:5501/css-demo.html

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```html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="utf-8" />
5      <title>CSS Demo</title>
6      <style>
7          div {
8              width: 100px;
9              padding: 20px;
10             border: 10px solid
11             margin: 5px;
12         }
13     </style>
14 </head>
15 <body>
16     <div>CSS Box Model</div>
17 </body>
18 </html>
```
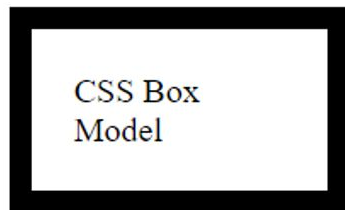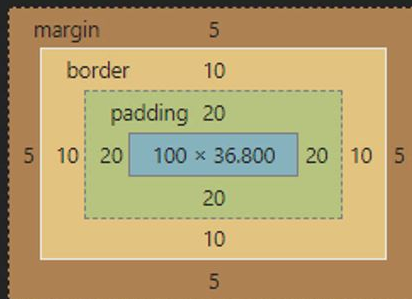
CSS Box Model

Elements   Console

```
<!doctype html>
<html lang="en">
▶ <head>…</head>
▼ <body>
      <div>CSS Box Model</div> == $0
</body>
```

html   body   div

Styles   **Computed**   Event Listeners

```
margin          5
   border      10
      padding  20
5  10  20  100 × 36.800  20  10  5
            20
         10
      5
```

Filter   ☐ Show all

▶ border-bottom-color   ■rgb(0, 0, 0)
▶ border-bottom-style   solid
▶ border-bottom-width   10px
▶ border-image-outset   0px

MARGIN

PADDING

BORDER

& SHORTHAND PROPERTIES

MARGIN

```
div {
    margin-top: 10px;
    margin-right: 5px;
    margin-bottom: 4px;
    margin-left: auto;
}
```

SHORTHAND PROPERTY

```
div {
    margin: 10px 5px 4px auto;
}
```

MARGIN

```
div {
    margin-top: 5px;
    margin-right: 10px;
    margin-bottom: 5px;
    margin-left: 10px
}
```

SHORTHAND PROPERTY

```
div {
    margin: 5px 10px;
}
```

MARGIN

```
div {
    margin-top: 5px;
    margin-right: 5px;
    margin-bottom: 5px;
    margin-left: 5px
}
```

SHORTHAND PROPERTY

```
div {
    margin: 5px;
}
```

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MARGIN

```
div {
    margin-top: auto;
    margin-right: auto;
    margin-bottom: auto;
    margin-left: auto
}
```

SHORTHAND PROPERTY

```
div {
    margin: auto;
}
```

This will horizontally center the element

PADDING

```
div {
    padding-top: 5px;
    padding-right: 10px;
    padding-bottom: 20px;
    padding-left: 30px;
}
```

SHORTHAND PROPERTY

```
div {
    padding: 5px 10px 20px 30px;
}
```

PADDING

```css
div {
    padding-top: 5px;
    padding-right: 10px;
    padding-bottom: 5px;
    padding-left: 10px;
}
```

SHORTHAND PROPERTY

```css
div {
    padding: 5px 10px;
}
```

PADDING

```
div {
    padding-top: 5px;
    padding-right: 5px;
    padding-bottom: 5px;
    padding-left: 5px;
}
```

SHORTHAND PROPERTY

```
div {
    padding: 5px;
}
```

BORDER

SHORTHAND PROPERTY

```
div {
    border-color: blue;
    border-style: solid;
    border-width: 5px;
}
```

```
div {
    border: blue solid 5px;
}
```

border-style property is required; allowed values include: **solid**, **dotted**, **dashed**, **double** & more

border-style value is required, the other two are optional: **border: solid;** will work, **border: 5px;** will not

The order of values does not matter: **blue 5px solid** is same as **5px solid blue**

BACKGROUND

```
div {
    background-color: green;
    background-image: url("strawberry.jpg");
    background-size: 200px;
    background-position: center;
    background-repeat: repeat-x;
}
```

Some common background properties

BACKGROUND

```
div {
    background-color: ▢green;
    background-image: url("strawberry.jpg");
    background-size: 100px;
    background-position: center;
    background-repeat: repeat-x;
    height: 200px;
}
```

```
<div>Background Demo</div>
```


Background Demo

BACKGROUND SHORTHAND PROPERTY

```
div {
    background: green url("strawberry.jpg") center/100px repeat-x;
}
```

The order of values generally does not matter

If using both **position** and **size** values in the shorthand, then they must be joined with a slash, with **position** first: **center/100px**

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FONT

```
div {
    font-style: italic;
    font-size: 18px;
    font-weight: bold;
    font-family: Cambria, Georgia, serif;
}
```

font-family should contain multiple fonts, comma separated & in order of preference, in case preferred font is not available

Always provide a generic font e.g. **serif** or **sans-serif** as final fallback font

SHORTHAND PROPERTY

```
div {
    font: italic 18px bold Cambria, Georgia, serif;
}
```

When using the font shorthand property, both **font-size** and **font-family** are required; the others are optional

The **font-family** value must be set last; aside from this, order of values does not matter

DISPLAY

display: block;

Elements with **display: block;** element begins on a new line and **can** be given width & height CSS properties

display: inline;

Elements with **display: inline;** stay on the same line and **cannot** be given width & height CSS properties

display: inline-block;

Elements with **display: inline-block;** stay on the same line and **can** be given width & height CSS properties

display: none;

Elements with **display: none;** are not shown

COLOR, OPACITY, WIDTH & HEIGHT, TEXT-ALIGN

color: black;

opacity: 0.5;

Use for text color on elements that have text content

Set element opacity between 0 and 1
0.5 is 50% opacity, **0.1** is 10% opacity, etc

width: 10px;
width: 50%
width: auto

height: 10px;
height: 50%
height: auto

text-align: left;
text-align: right;
text-align: center
text-align: justify;

- **number & unit** (e.g. **px**; can omit unit if number is **0**), no space between: **10px**, not **10 px**
- or **percentage** (of its container's size)
- or **auto** (default - let the browser figure it out)

Set alignment of text in an element

COMMENTS

In HTML, comments look like this:

<!-- This is an HTML comment **-->**

In CSS, comments look like this:

/* This is a CSS comment ***/**

LOREM IPSUM TEXT

Lorem ipsum text is a concept that originated in the print publishing industry

It's placeholder text that resembles Latin; it's used when you need a block of text for testing layout/design, the text's meaning does not matter

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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