

# ng HTML and CSS Part 2



HTML/CSS ~ Girl Develop It ~ (cc) BY-NC

#### **Element: Div**

- Block level element. Each new div is rendered on a new line.
- A division, or section of content within an HTML page.
- Used to group elements to format them with CSS.
- Apply IDs and Classes to divs to control their styles with CSS.

#### **Grouping elements with div**

- The div tag is used everywhere to group elements together into sections.
- For example, what if we want the first 2
  paragraphs of a section to be right-aligned,
  purple & bold, but we don't want any other
  paragraphs to be right-aligned?
- We would wrap them in a div element to style them differently.

## Grouping elements with div, cont.

```
.align-right {
  text-align:right;
  color: purple;
  font-weight: bold;
}

<div class="align-right">
  Lorem ipsum dolor sit amet, consectetur adipisicing elit
  Sed do eiusmod tempor incididunt ut labore et dolore.
</div

<p>Magna aliqua. Ut enim ad minim veniam.
Ouis nostrud exercitation ullamco.</a>
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit Sed do eiusmod tempor incididunt ut labore et dolore.

Magna aliqua. Ut enim ad minim veniam.

Quis nostrud exercitation ullamco.

#### Let's Develop It

Let's create a site using divs to separate content into different sections on our page.

Create a header, content area, sidebar, and a footer.

#### **Element: Span**

- Inline element. Each new span is rendered next to each other & only wraps when it reaches the edge of the containing element.
- Can be used to apply styles to text inline so as not to break the flow of content.

#### Span

#### Span is used to apply a specific style inline

```
.yellow {
    color:yellow;
}
Paragraph with <span class="yellow">yellow</span> text.
```

Paragraph with yellow text.

## Let's Develop It

Let's add some spans to our content to help highlight some text.

## Pseudo-classes, more CSS for links

Changing the format of a link when you hover over it is accomplished by using pseudo-classes.

Syntax:

selector:pseudo-class {
 property:value;
}

Example:

a:link {
 text-decoration: none;
}

CSS pseudo-classes are used to add special effects to some selectors.

## Pseudo-classes, more CSS for links

```
a:link {color:#FF0000;} /* unvisited link */
a:visited {color:#00FF00;} /* visited link */
a:hover {color:#FF00FF;} /* mouse over link */
a:active {color:#0000FF;} /* selected link */
```

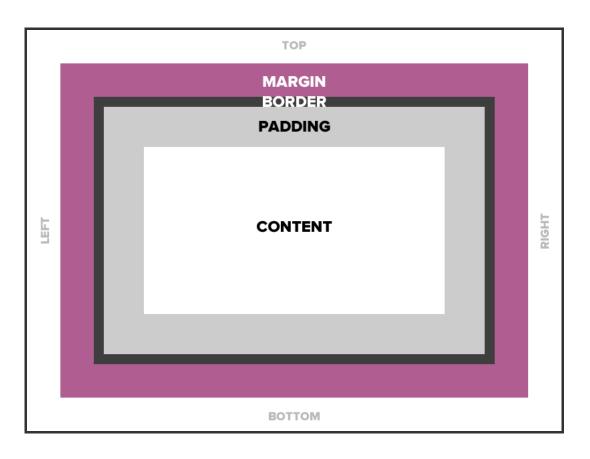
Note: a:hover MUST come after a:link and a:visited in the CSS definition in order to be effective!

Note: a:active MUST come after a:hover in the CSS definition in order to be effective!

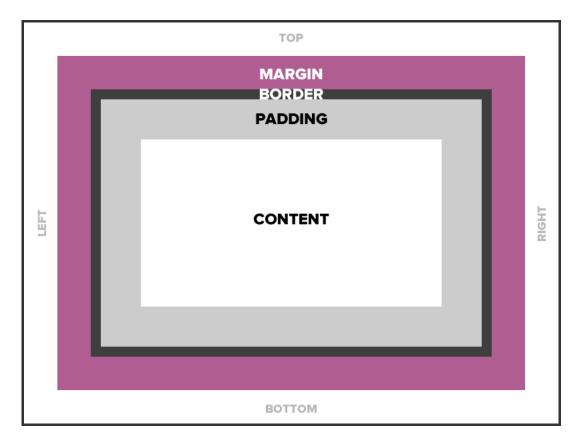
## Let's Develop It

Add pseudo classes to your links

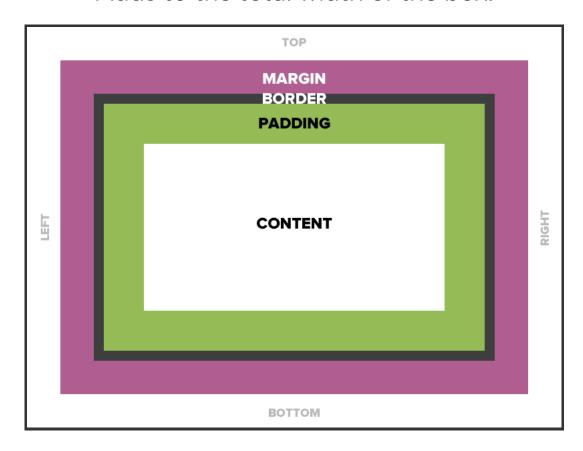
#### **Box Model**



Space between the border and the content



Space between the border and the content Adds to the total width of the box.



#### 15 pixels on all sides

padding: 15px;

10 pixels on top only

padding-top: 10px;

10 on top, 5 on right, 3 on bottom, 5 on left

padding: 10px 5px 3px 5px;

#### Four values

padding: top right bottom left;

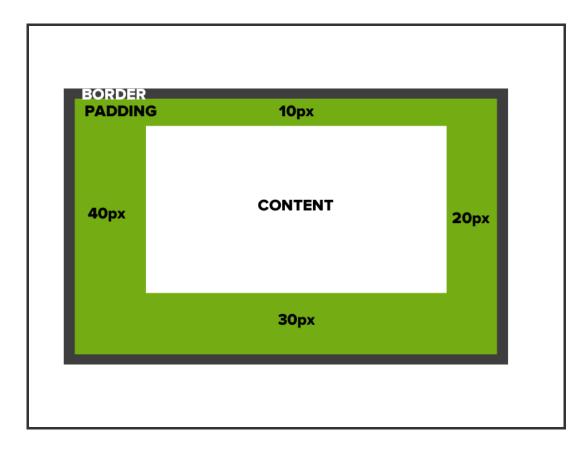
Two values

padding: top/bottom right/left;

One value

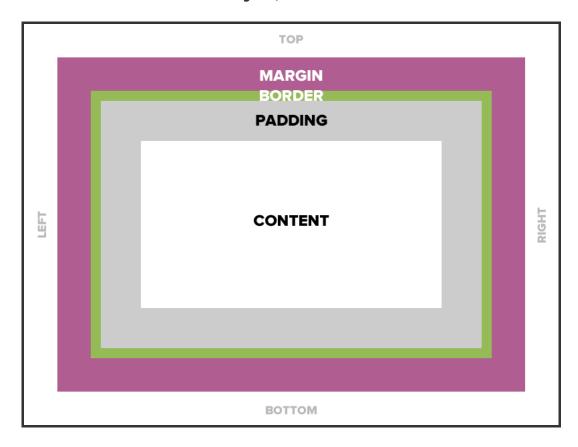
padding: all;

padding: 10px 20px 30px 40px;



#### **Border**

The edge around the box, specified as "thickness, style, color."



#### **Border**

#### A solid red border

border: 1px solid #ff0000;

#### A thick dotted black top border

border-top: 4px dotted #000000;

#### Two different border styles

border-top: 1px solid #ff0000; border-bottom: 4px dotted #000000;

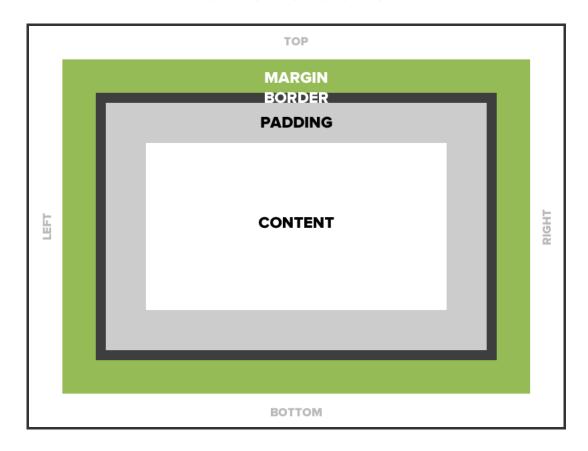
## **Border - Other Properties**

border-width: 10px; border-style: dashed; border-color: #666666;

You can specify each property separately, or all three together.

## Margin

The transparent area around the box that separates it from other elements.



### Margin

#### 15 pixels on all sides

margin: 15px;

10 on top, 5 on right, 3 on bottom, 5 on left

margin: 10px 5px 3px 5px;

10 pixels on top

margin-top: 10px;

#### **Auto Margin**

If a margin is set to auto on a box that has width, it will take up as much space as possible.

**CENTERED** 

margin: auto;
width: 300px;

**FLUSH-RIGHT** 

margin-left: auto;
margin-right: 5px;
width: 300px;

## Let's Develop it!

Let's add some padding, borders, and margins to our divs.

Let's center our entire document in the browser.

### **Property: Width**

Sets the width of an element.

Does not include padding or borders, remember these add to the width.

#### **Property: Height**

Sets the height of an element.

Does not include padding or borders, remember these add to the width.

## Let's develop it!

Add a width & height to our divs.
Use IDs to target each div with CSS

#### **Static Positioning**

In normal flow, inline boxes flow from left to right, wrapping to next line when needed.

```
<img src=".././images/cookie1.png"/>
<img src="././images/cookie2.png"/>
<img src="././images/cookie3.png"/>
...
<ing src="././images/cookie2.png"/>
<img src="././images/cookie3.png"/>
```

















#### **Static Positioning**

In normal flow, block boxes flow from top to bottom, making a new line after every box.



Greetings

Hello

Hi there!

#### **Relative Positioning**

- Takes the element out of the normal flow, allowing it to be moved to the top, left, right or bottom.
- Does not affect the elements surrounding it.
- Makes an element a "positioning context" in which to position other elements relative to it.
- Relative positioning and absolute positioning are used together.

#### **Relative Positioning**

The "relative" value will still put the element in the normal flow, but then offset it according to top/left/right/bottom properties.

```
.relative {
  position: relative;
  left: 80px;
  top: 20px;
  height: 100px;
  background-color: yellow;
}
```

Hello, hi!

#### **Absolute Positioning**

- Positions element outside of the normal flow.
- An absolutely positioned element is offset from its container block, positioned relative.
- Its container block is the first element that has a position other than static.
- If no such element is found, the container block is <a href="https://www.element.com/html">https://www.element.com/html</a>.
- Other elements act as if it's not there.
- Determined by its offset values in the properties top, bottom, right and left.

#### **Absolute Positioning**

The "absolute" value will take the element out of the normal flow and position it in relation to the window (or the closest non-static element).

```
.top {
    position: absolute;
    top: -40px;
    right: 10px;
    background-color: yellow
}

.bottom {
    position: absolute;
    bottom: -40px;
    left:60px;
    background-color: green
}
```

# **Example: Absolute Positioning**

Here's an example of an image with a caption absolutely positioned over top of it.

The containing div has a position of relative, and the caption has a position of absolute.



#### **Z-index**

When you use positioning to move elements out of the normal flow of content, elements can overlap. You can change the order of overlapping with z-index.

The element with highest z-index goes on top.

```
.bottom {
  position: absolute;
  bottom: 10px;
  left:60px;
  background-color: yellow;
}
.top {
  position: absolute;
  bottom: 15px;
  left:60px;
  background-color: green;
  z-index: 2;
```

#### **Float**

- "Floating" an element takes it in the normal flow, as far to the left or right of it's containing element as possible.
- Any other elements, such as paragraphs or lists, will wrap around the floated element.
- Always specify a width when floating an element, otherwise the element is likely to take up the whole page and not appear floated.
- You can specify a) whether an element is floated or not, and b) which side it floats on.

#### Float: Example

Below a <blockquote> is floated to the left, allowing text to wrap around it on the right

That's when they discovered Are You a Human. After switching to PlayThru, HiredMyWay 40% decrease in the amount of time it takes an average user to sign up for the site, from 4 minutes, 24 seconds to 2 minutes, 39 seconds. That's almost **two minutes saved** per user.



Even better, after implementing PlayThru, the percentage of HiredMyWay users who completed profile after signing up Wes Weiler CMO

HiredMyWay That's no surprise—CAPTCHA's studies indicating that one in four people will

And PlayThru didn't just improve HiredMyWay's numbers—it also improved their overall coming onto my site, and that's a bad experience," says Wes. "Everything's an emotional disite."

#### **Float**

```
.float {
  float:left;
  width:200px;
  background:yellow;
```

with black text. I like to hang out on the left side.

Hi, I'm a yellow box Not floating element Not floating element Not floating element with wrapping

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

## Using floats to place elements side by side

If you want two block level elements to be side by side, you need to float both elements. One left, and one right.



#### Clear

- Clearing tells the element on which side (right, left, both) other elements cannot appear.
- If you had an image floated left, and you did not want the paragraph to appear next to it, you would add clear: left; to the paragraph.
- Clearing both sides makes sure floats don't flow past the clear element.

clear: right;
clear: left;
clear: both;



