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# Cascading Style Sheets

Making things look less crappy

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# In last week's episode:

We looked at inline styles:

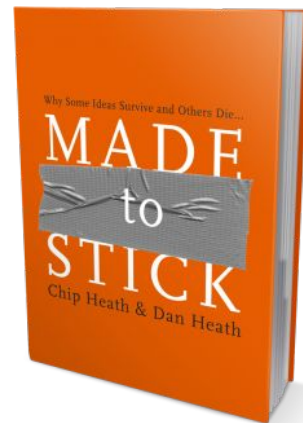
```
<h1 style="font-size:48px;">My Header</h1>
```

Separating styles either in the header of a .css file

```
<style>
```

```
    h1 { font-size: 48px; }
```

```
</style>
```



# In last week's episode:

We played with Google fonts to import fonts:

```
<header>
<link href="https://fonts.googleapis.com/css?family=Arimo|Notable"
rel="stylesheet">
</header>

<style>
h1, h2, h3, h4, h5 {
  font-family: 'Notable', sans-serif;
}

* {
  font-family: 'Arimo', sans-serif;
}
</style>
```



# What else can css do?

What can't it do?!

- Typography
- Color
- Images
- Layout
- Composition
- Animations
- Basically anything visual

—  
Examples of the power of CSS:

CSS Zen Garden

<http://www.csszengarden.com>

# Type

font-family { Helvetica, Times, Georgia }

font-size { px, pt, em }

color { rgb, rgba, hsl }

text-align { left, center, right }

text-decoration { underline, none }

text-transform { uppercase, lowercase,  
capitalize }

text-style { italic, normal }

font-weight { bold, normal, 700 }

DONT WORRY

about the future;

or WORRY, but KNOW that

WORRYING

is as EFFECTIVE as

trying to solve an

ALGEBRA EQUATION

BY CHEWING

BUBBLEGUM

# Layout

{ px, em, % }

width

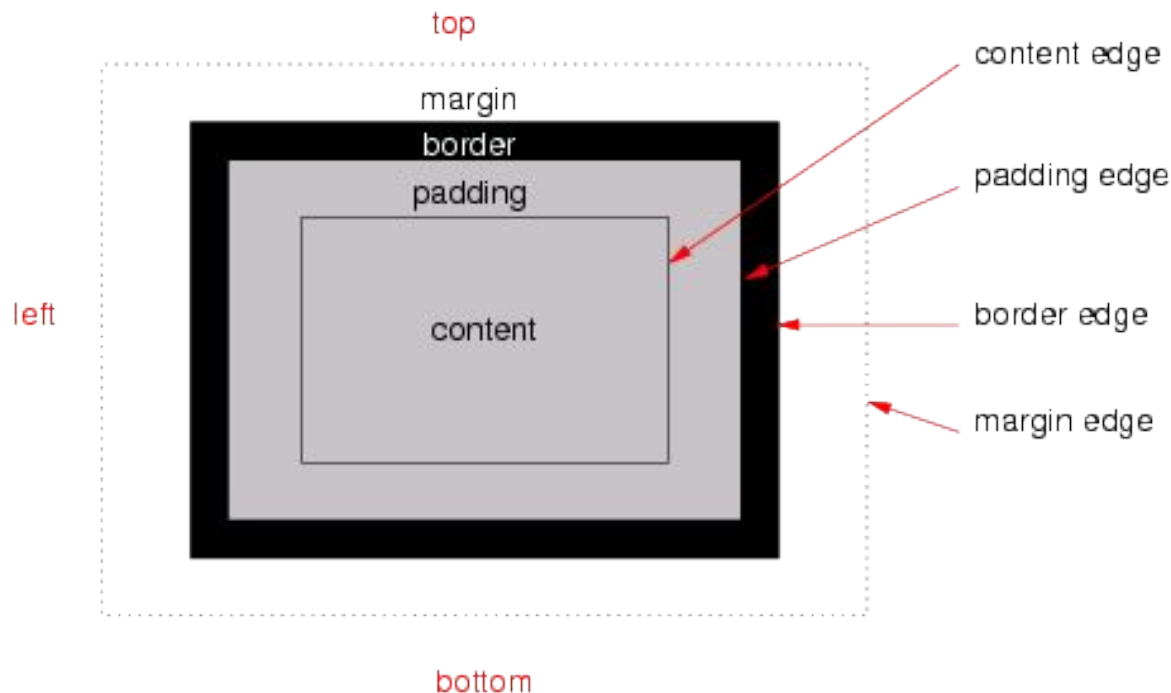
height

margin

padding

border

## Box Model:



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**Try this out:**  
**<http://bit.ly/art341-box>**

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# Units (Size)

12px

1.2em (width of an 'M' or ephemeral unit)

80%

50vw (% of viewport width)

20vh (% of viewport height)



## Tip

w3Schools is a great resource for figuring out how to do what you want to do with css  
<https://www.w3schools.com/css/default.asp>

# Units (Color)

blue

rgb {125, 74, 214}

rgba {159, 15, 88, 0.7}

hsl {220, 50, 10}

hex {#fa3c14} or {#333}



## Tip

Color.adobe.com is a quick way to get hex, hsl, and rgb values  
<https://color.adobe.com>



```
h1 {
```

```
    Font-family: helvetica;  
    color: darkkhaki;  
    background: #fa342b;  
    font-size: 12px;  
    line-height: 1.2em;
```

```
}
```

# Background Images

`background-image: url('../images/mybackground.png');`

`background-size: cover / contain / 100px`

`background-position: top left / 200px 100px`

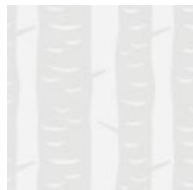
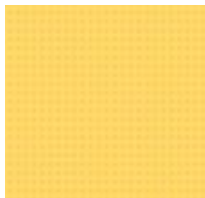
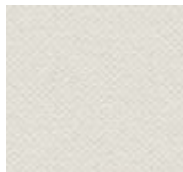
`background-repeat: no-repeat / repeat-x / repeat-y`



# Subtle Patterns

This website has cool repeating patterns

→ <https://subtlepatterns.com>



# IDs and Classes

**Only use a form once per page**

Html: `<form id="contact-form"></form>`

Css: `#contact-form { border: 1px solid #333 }`

**Can be used over and over**

Html: `<span class="highlight"></span>`

Css: `.highlight { background-color: lemonchiffon; }`

**stay classy**



# When to Use IDs

IDs are unique, sort of like the difference between a serial number and a barcode.

- You want to jump to a part of the page. Example:  
<http://web.pdx.edu/~arisse/index.html#contact>
- When you are targeting a unique item through javascript like a form. ( we'll play around with this in Project 3. )



# Selectors

\* { ... } wildcard. Applies this style to EVERYTHING

h1 { ... } selects all h1 tags

p { ... } selects all p tags

span { ... } selects all span tags

.classname { ... } selects all classes with the 'classname' class

#idname selects all ids with the 'idname' id

# Inheritance

```
<section>
```

```
  <h2>Article Headline</h2>
```

```
  <p>A bunch of text</p>
```

```
</section>
```

# Inheritance

Section h2 { ... } only selects h2's that live inside sections

Section p { ... } only selects p's that live in sections



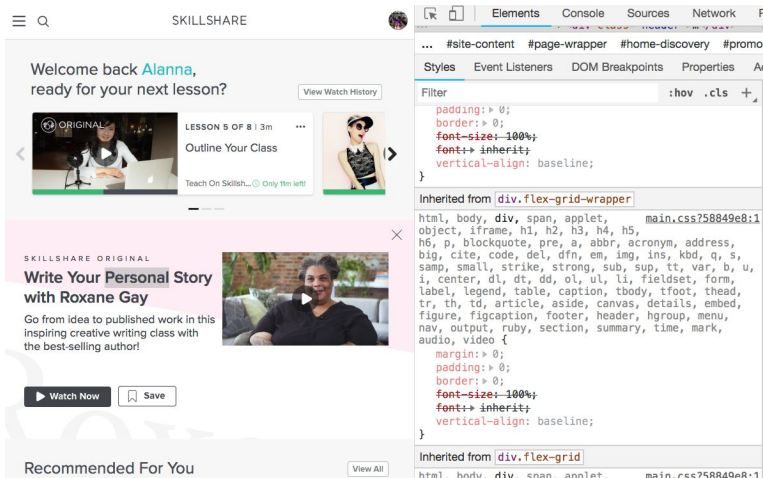
# There's a hierarchy

What if you have overlapping styles, who wins?

- Id's are the winners
- Classes are second place
- Html elements are third
- Order of precedence  
(id, class, html element)

# Developer tools help!

Chrome developer tools tell you which styles are being ignored and which are being used



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# Learn More

**Code Academy - Learn CSS:**

<https://www.codecademy.com/learn/learn-css>

**Traversy Media - CSS Crash Course:**

<https://www.youtube.com/watch?v=yfoY53QXEnI&t=1926s>

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# Let's make a homepage

Download