

Introduction to Web Development

Week 2: How to Make Websites Look Good with CSS



Agenda: Week 2

- Introduction to CSS
 - o colors, text, spacing and sizing, etc
 - selector overrides
- Chrome developer tools
 - or how to steal code





CSS

Time to make things fancy!







Sher Minn

- AboutGalleryContact

Hello there.

Welcome to my universe. Here you will find strange things.

About

Hi, my name is Sher Minn. I'm a frontend web engineer at Viki where I build features with HTML/CSS and JavaScript.

In my time off, I like creating screensaver art with p5.js. You can find me lurking on Twitter and taking pictures of buildings on Instagram.

Gallery



Get in touch

You can find me on these social media links sometimes. Come say hi!









Sher Minn

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Gallery





d in any form or by any means, including copying,



Where to Put CSS?

- Option 1: In separate file and link it to HTML
 - Save CSS in a new file
 - style.css
 - Add link in HTML
 - k rel="stylesheet" href="style.css"/>
- Option 2: In <head> of HTML file
- Option 3: Inline CSS
 - Not recommended and not covering





ITAL ISMADE OUT OF TAGS





Rules

CSS is made out of <u>rules</u>

Rules consist of selectors that have properties and values

```
→ h1 {
      color: blue;
      font-family : "Arial";
    }
```







```
Selector

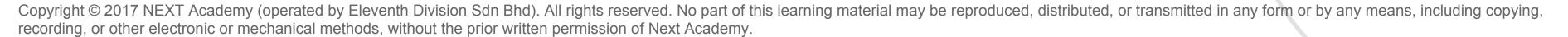
h1 {

    color: blue;

    font-family: "Arial";
}

Property
```

- Selectors select which HTML tag to style
- Property refers to which style to customize
- Value is the value assigned to the given property
- Each rule can have as many property-value pairs





Remember, Remember

```
h1 {
    color: blue;
    font-family: "Arial";
}
```

- Always open curly brace { after selector, and close } after all the property-value pairs
- Each property has to be followed by a colon :
- Remember to end each property-value pair with semicolon;



Colors

For text and backgrounds





HTML	CSS		
OUTPUT			

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CODE DEMO

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colors - keywords

```
HTML

<h1> Hello </h1>

    Nice to meet you
```

```
h1 {
  color: blue;
}
p {
  color: orangered;
}
```

OUTPUT

Hello

Nice to meet you





colors - hex

```
HTML

<h1> Hello </h1>

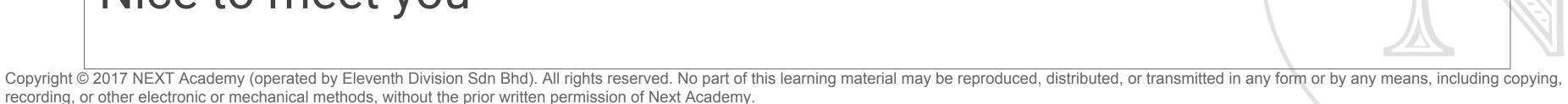
Nice to meet you
```

```
CSS
h1 {
   color: #E32609;
}
```

OUTPUT

Hello

Nice to meet you





colors - keywords vs hex

Color values can be represented 2 ways

keywords

- E.g. red, blue, green, orangered, yellowgreen, ivory
- full list of keywords

hex

- For more specific colors that don't have keywords
- Can use a color-picker to get hex code
- color-picker tool

rgba()

For when you need opacity





background - color

```
HTML

<body>
    Hello World
</body>
```

```
body {
  background-color: gray;
  color: white;
}
```

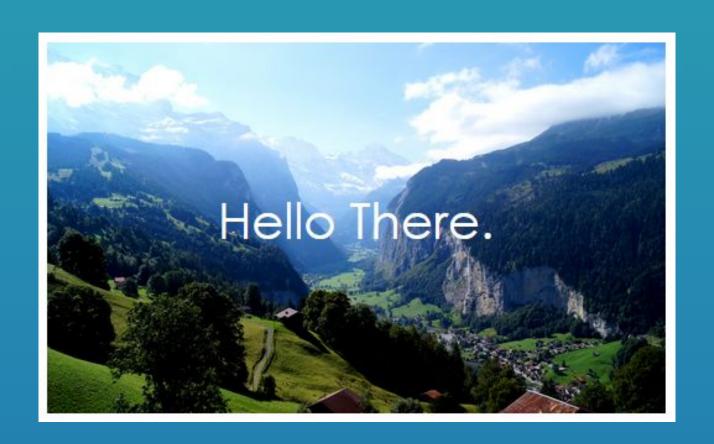
OUTPUT

Hello World



Bonus: Baby Got Background

Backgrounds don't have to be boring plain colors You can make image backgrounds



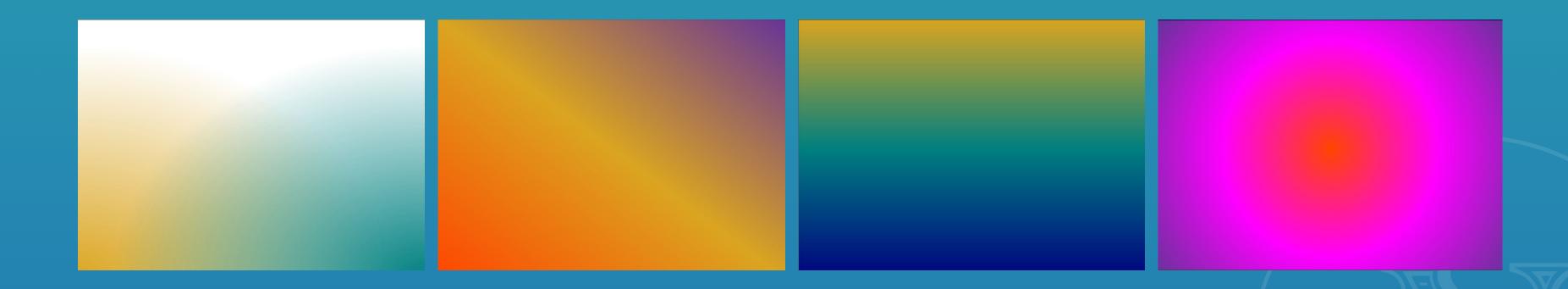
Hint: Try the background-image property. But what value should it have? I'll let you figure that out.

Tip: Here's a place to find nice background patterns: http://subtlepatterns.com/

Bonus: Gradient backgrounds



Why choose one color when you can have many? You can also add gradients of multiple colors as backgrounds.



Hint: Look up linear-gradient and radial-gradient. How many colors can a gradient have?



Text

Fonts and Alignment





fonts

HTML <h1> Hello </h1> this is Comic Sans

```
p {
  font-family: "Comic Sans MS";
}
```

MUST add " " if spaces exist



fonts

HTML

<h1> Hello </h1>

this is ComicSans

CSS

```
p {
  font-family: "Comic Sans MS";
}
```

OUTPUT

Hello

This is Comic Sans



SYSTEM FONTS



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MY

What They See

Hello •

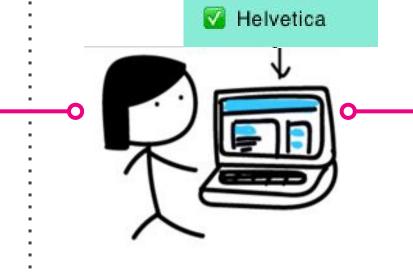
Website Source Code

HTML

<h1> Hello </h1>

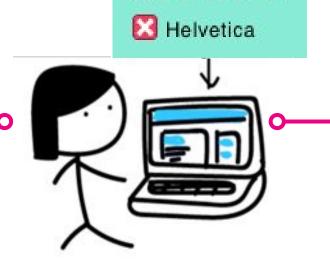
CSS

p {
 font-family: "Helvetica";
}

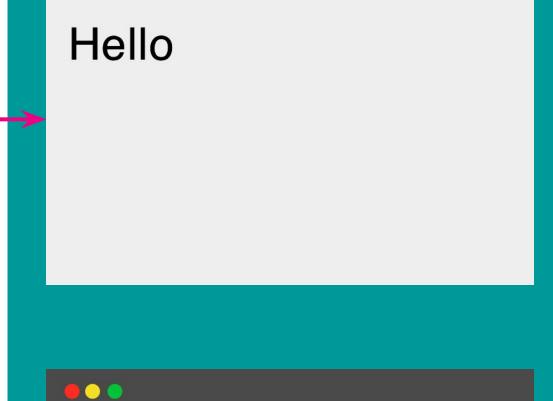


Website Visitors

SYSTEM FONT



SYSTEM FONT



If no other fonts are defined, it will fall back to the default system font



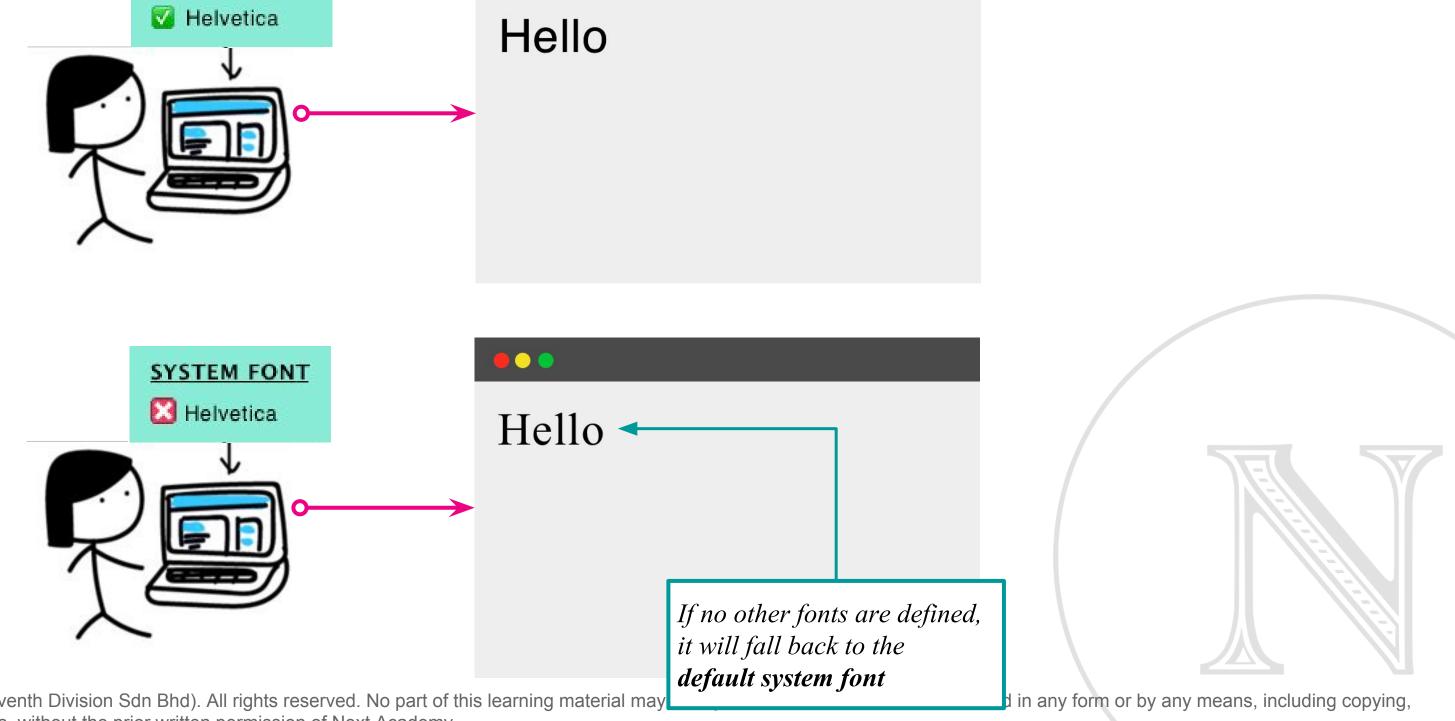
FONT FAMILY



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What If We Don't Want to Rely on Website Visitor's Local Computer? MY



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SYSTEM FONT

What If We Don't Want to Rely on Website Visitor's Local Computer?

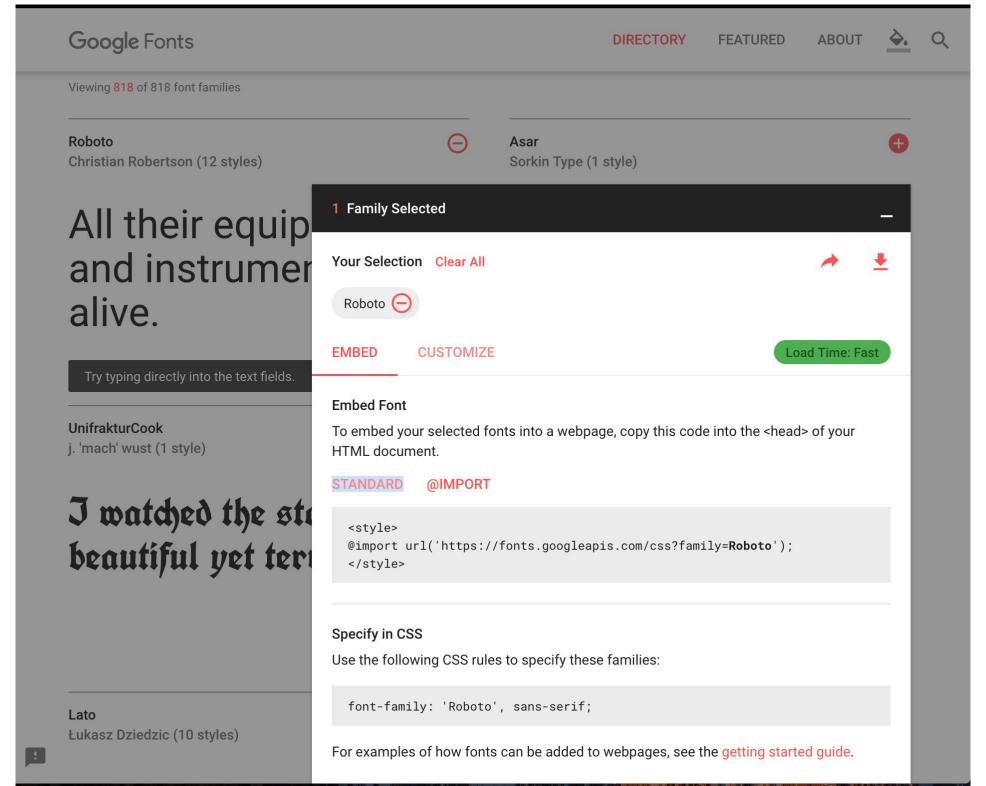
Host your own font file

Use Web Font Services





Using Google fonts





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Example

Add a Google Font is to a link to the font:

```
<head>
     link href='http://fonts.googleapis.com/css?family=Oswald'
     rel='stylesheet' type='text/css'>
</head>
```

Then use it in CSS:

```
body{
  font-family: Oswald, Arial, sans-serif;
}
```

vind



font-size

```
HTML
 large text
```

```
p {
  font-size: 72px;
}
```

OUTPUT

large text



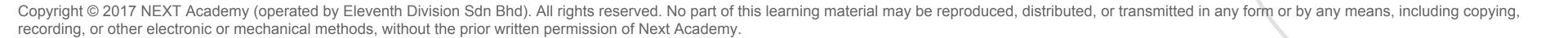
text-align

HTML

Oh my goodness this
is centered!

OUTPUT

Default is aligned to left!





text-align

HTML

Oh my goodness this
is centered!

```
p {
  text-align: center;
}
```

OUTPUT

Oh my goodness this is centered!

Other text-align options: left, right, and justify



text-decoration

```
HTML
```

```
 this is underlined!
```

```
p {
  text-decoration: underline;
}
```

OUTPUT

this is underlined!

Check out w3schools for more decoration options



Spacing and Sizing





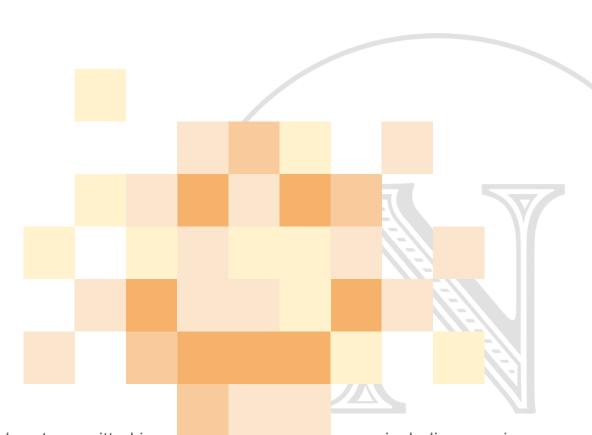
Pixels

Pixels are a unit of measurement for things on your screen

- Unit name is px
- 1px is the smallest blip of color on your screen

Other units of measurements

em, rem, %





width and height

HTML


```
img {
  width: 150px;
  height: 155px;
}
```

OUTPUT



Note: if you specify width, but not height, it will autoscale the height for you according to <u>aspect ratio</u>. Same goes for height.

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font-size

HTML

hello world

```
p {
  font-size: 60px
}
```

OUTPUT

hello world



The Importance of Whitespace

NEXT

ACADEMY

- Increases legibility
- Creates focus
- Sets the right tone
- Resources
 - https://boagworld.com/design/why-whitespace-matters/
 - https://www.interaction-design.org/literature/article/the-p
 ower-of-white-space









padding

HTML

```
 Hello there!
```

How are you?

CSS

```
p {
  padding: 12px;
  background-color: #eeeee;
}
```

Without CSS

Hello there

Hello there

With CSS

Hello there

Hello there



padding

HTML

Hello there!

How are you?

CSS

```
p {
  padding: 12px;
  background-color: #eeeee;
```

Without CSS

Hello there

Hello there

With CSS





margin

HTML

```
 Hello there!
```

How are you?

CSS

```
p {
  margin: 18px;
  background-color: #eeeee;
}
```

Without CSS

Hello there

Hello there

With CSS

Hello there

Hello there



margin

HTML

Hello there!

How are you?

```
p {
  margin: 18px;
  background-color: #eeeeee;
```

Without CSS

Hello there

Hello there



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border

HTML

```
img {
  border: 3px solid black;
}

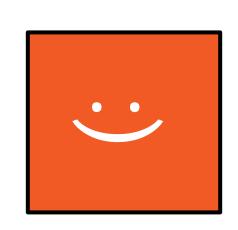
width style color
```

Without CSS













border-radius

HTML

CSS

```
img {
  border-radius: 12px;
  width: 24px;
  height: 24px;
}
```

Without CSS





With CSS





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border-radius

```
HTML

<img src="happy.jpg />
```

```
img {
  border-radius: 12px;
  width: 24px;
  height: 24px;
}
```

Without CSS









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Bonus: Give Me Funky Edges

Instead of 4 rounded edges, be creative! Try the 3 styles below! The challenge: Create each style with only 1 property.



Hint: How many values can the property "border-radius" hold?



Selector Specificity and Overrides

Selecting specific elements and overriding styles



Selector Specificity

Select more than one tag

```
p, h1 {
  color : blue;
}
```

Select only one type of tag in another

```
header p
color : red;
}
```





Selector Overrides I

Rule of Thumb

Browser will follow rules with the most specific selector

```
Hello
<header>
  Goodbye
</header>
```

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



Hello

Goodbye



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Selector Overrides II

In case of duplicate selectors, browser will follow the one that comes last

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

Want to Select Just One Thing?



```
HTML

look at me
some text
not so important
```

CSS

```
#error
{
  color: red;
}
```

look at me

some text

not so important



Want to Select a Type of Thing?



HTML

```
fun
boring text
see me
```

CSS

```
.highlight
  background-color: yellow;
  text-transform: italic
}
```

fun

boring text

see me





More Properties

There are about 170+ CSS properties

Complete list of CSS properties

http://www.w3schools.com/cssref/



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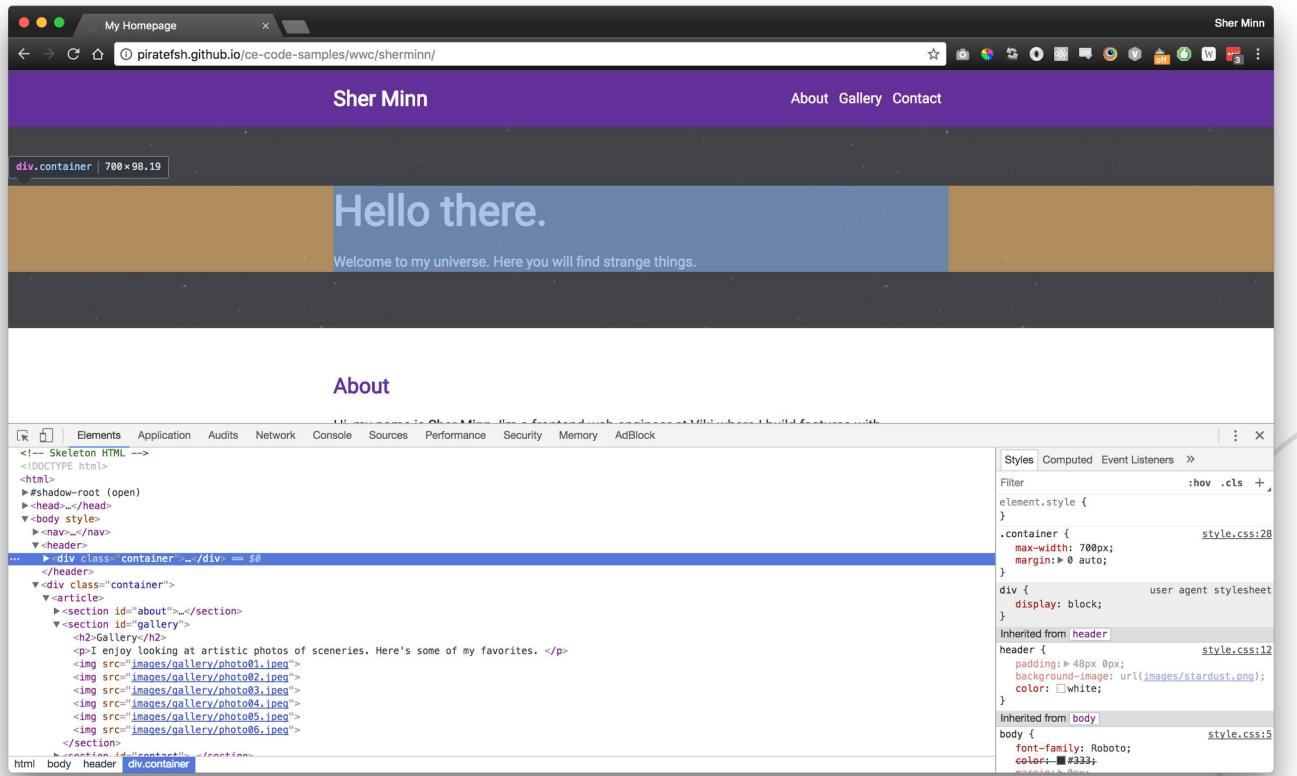
Developer Tools

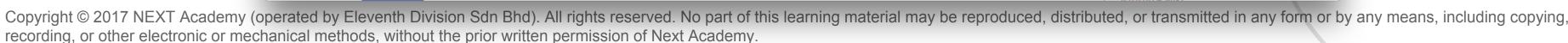
Or, how to steal code





What are Developer Tools?







Recap

- Introduction to CSS
 - o colors, text, spacing and sizing, etc
 - selector overrides
- Chrome developer tools
 - or how to steal code





The End Thank you for coming!