



GENERAL ASSEMBLY

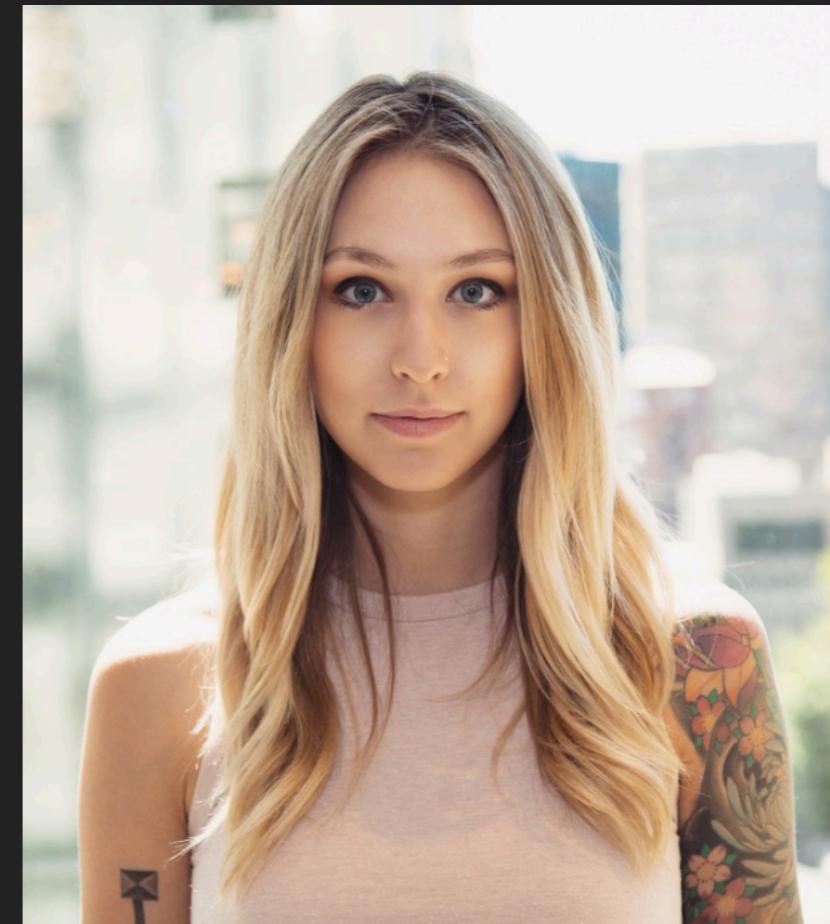
CODE IN A DAY

AGENDA

- ▶ **10am - 12:10pm** - Intro to the Web, HTML & CSS
- ▶ **12.10 - 12:40pm** - Lunch
- ▶ **12.40 - 1:10pm** - The Box Model
- ▶ **1:10 - 2:20pm** - Start building portfolio
- ▶ **2:20 - 2:35pm** - Tea/Coffee break
- ▶ **2:35 - 4:00pm** - Finish portfolio & put it online!

WHO AM I?

- ▶ My name's Natasja
- ▶ I'm a Software Engineer at A Cloud Guru
- ▶ I'm a career changer
- ▶ I'm a General Assembly Alumni
- ▶ I love HTML, CSS and JavaScript!



**WHO'S HERE
TODAY?**

GOALS

- ▶ Understand what and how the web works
- ▶ Understand how web pages are created
- ▶ Gain an intro to HTML and CSS
- ▶ Know where you can learn more after this class



**WHAT IS THE
WEB?**



THE FIRST WEB PAGE EVER!

World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#) , [Policy](#)

[What's out there?](#)

Pointers to the world's online information, [subjects](#) , [W3 servers](#), etc.

[Help](#)

on the browser you are using

[Software Products](#)

A list of W3 project components and their current state. (e.g. [Line Mode](#) ,[X11 Viola](#) ,[NeXTStep](#) ,[Servers](#) ,[Tools](#) ,[Mail robot](#) ,[Library](#))

[Technical](#)

Details of protocols, formats, program internals etc

[Bibliography](#)

Paper documentation on W3 and references.

[People](#)

A list of some people involved in the project.

[History](#)

A summary of the history of the project.

[How can I help ?](#)

If you would like to support the web..

[Getting code](#)

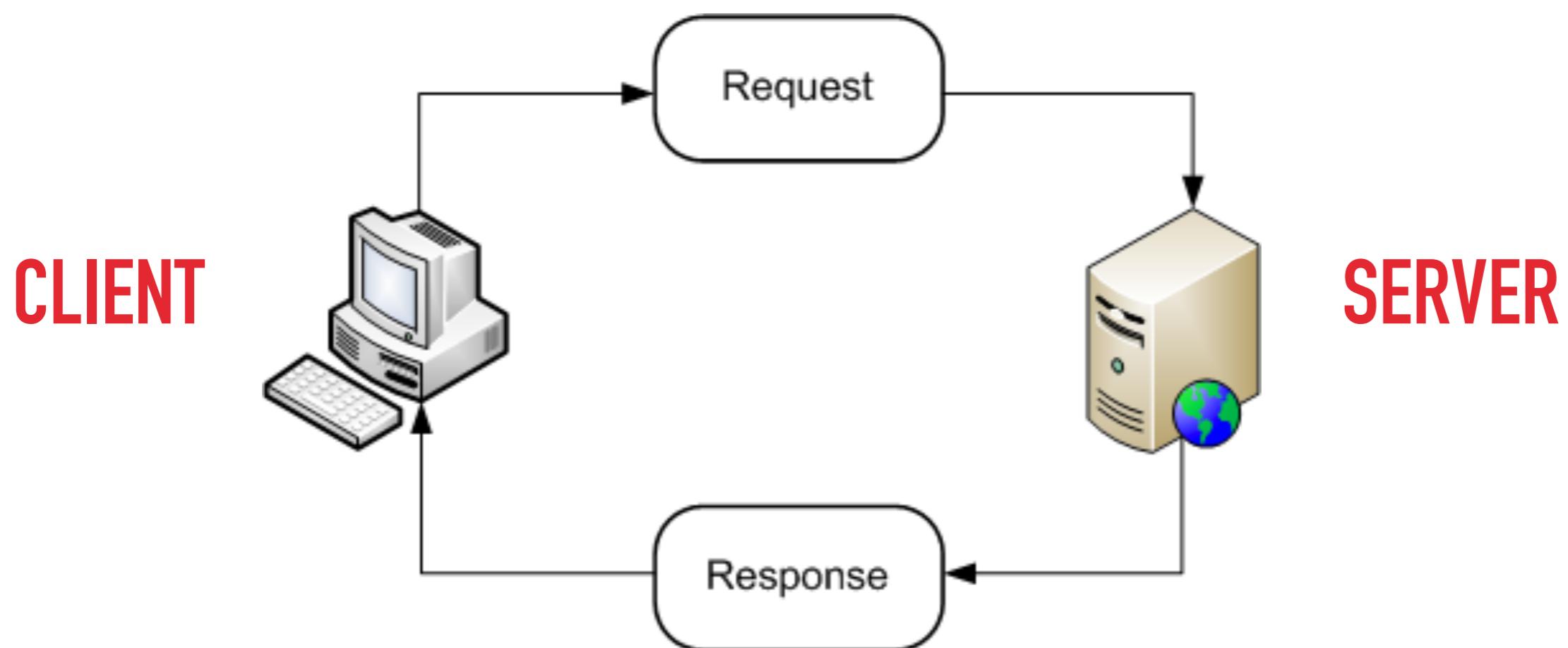
Getting the code by [anonymous FTP](#) , etc.



**HOW DOES THE
WEB WORK?**



CLIENT-SERVER ARCHITECTURE



WHAT MAKES UP A WEBPAGE?

URL: "[HTTP://WWW.GOOGLE.COM](http://www.google.com)"

HTML



index.html

CSS



styles.css



**SO WHAT'S WEB
DEVELOPMENT?**



WHAT'S WEB DEVELOPMENT?

- ▶ The creation and management of both websites and web based applications
- ▶ Made up of the Front End and Back End
- ▶ Most developers will try to convince you that it's magic, but it's mainly editing text files (coding/programming) and solving problems.



FRONT END VS. BACK END

FRONT END

- ▶ How things look to the user
- ▶ Involves: Images, content, structure
- ▶ HTML, CSS and JavaScript

BACK END

- ▶ The logic and “how things work”
- ▶ Involves: “Business logic” and “data”
- ▶ Ruby, PHP, C++, Java etc



**WHAT TOOLS WILL
WE USE?**



TEXT EDITOR

- ▶ For this workshop, we'll use **Visual Studio Code**
- ▶ It's free
- ▶ Provides syntax highlighting, code hinting, auto completion and lots of great features!
- ▶ Word, Pages, Notepad type editors are NOT suitable for coding.



Visual Studio Code

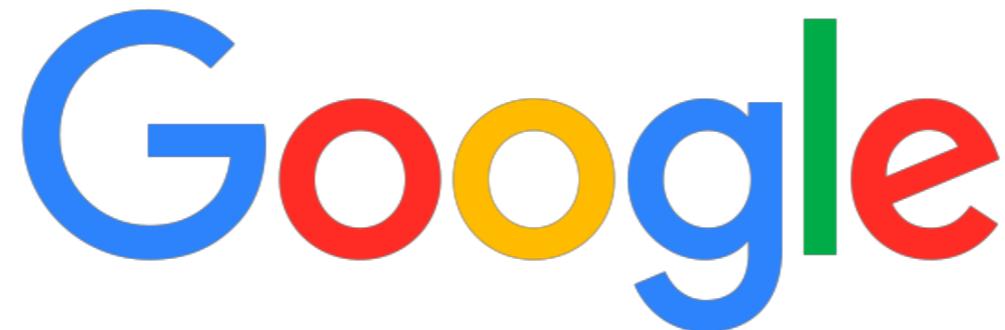


BROWSER



- ▶ We recommend using **Google Chrome**
- ▶ It's free and provides many developer-friendly tools!

GOOGLE



- ▶ Googling is an important skill as an engineer!
- ▶ Google a question in the same wording you may ask someone in person
- ▶ You will find many engineers have been stuck with the same problem you are trying to solve

GETTING STARTED

- ▶ In Chrome, go to www.github.com/natasjja/code_in_a_day
- ▶ Click on the green “Clone or download” button
- ▶ Click “Download ZIP”
- ▶ Unzip Folder
- ▶ Move the whole “code_in_a_day-master” folder to your desktop

HTML
HYPertext Markup
Language



THINK OF HTML AS...



- ▶ A markup language used to describe the **content** and **structure** of documents
- ▶ Describing what goes into a web document
- ▶ Not describing how a web document looks

A TYPICAL HTML TAG

```
<tag name  attribute name="value">Contents</tag name>
```

```
<a  href="http://google.com">Link to Google</a>
```

ELEMENT

ATTRIBUTE VALUE

ATTRIBUTE NAME



SELF CLOSING TAGS

```

```

SOME ELEMENTS CAN BE REPEATED - OTHERS CAN'T

```
<p>My name's Tasja</p>
```

```
<p>I love coding!</p>
```

<body></body> THERE CAN ONLY BE ONE BODY ELEMENT



TAGS CAN BE PLACED INSIDE OTHER TAGS

```
<ol>  
  <li>First Item</li>  
  <li>Second Item</li>  
</ol>
```



1. First Item
2. Second Item



BASIC LAYOUT OF A HTML DOCUMENT



YOUR TURN!

- ▶ Add some tags anywhere inside the **<body>** tags
- ▶ Add a main heading to your page using the **<h1>** tag
- ▶ Add an unordered list using the **** and **** tags
- ▶ Add some text with a **<p>** tag
- ▶ Add a link to another cool website using an **<a>** tag
- ▶ Add an image to your page
 - ▶ Save an image and give it a simple file name (make sure there are no spaces) e.g. **mypet.jpg**
 - ▶ Make a folder called **images** by right clicking in your root (main) folder and selecting “New Folder”
 - ▶ Now embed the image in the page using the **** tag
 - ▶ Drop the image you saved into the folder called **images**
 - ▶ Now embed the image in the page using the **** tag
 - ▶ Go to https://www.w3schools.com/tags/tags_img.asp for help if you need
 - ▶ If you finish, go to: https://www.w3schools.com/html/html_exercises.asp

CSS CASCADING STYLE SHEETS



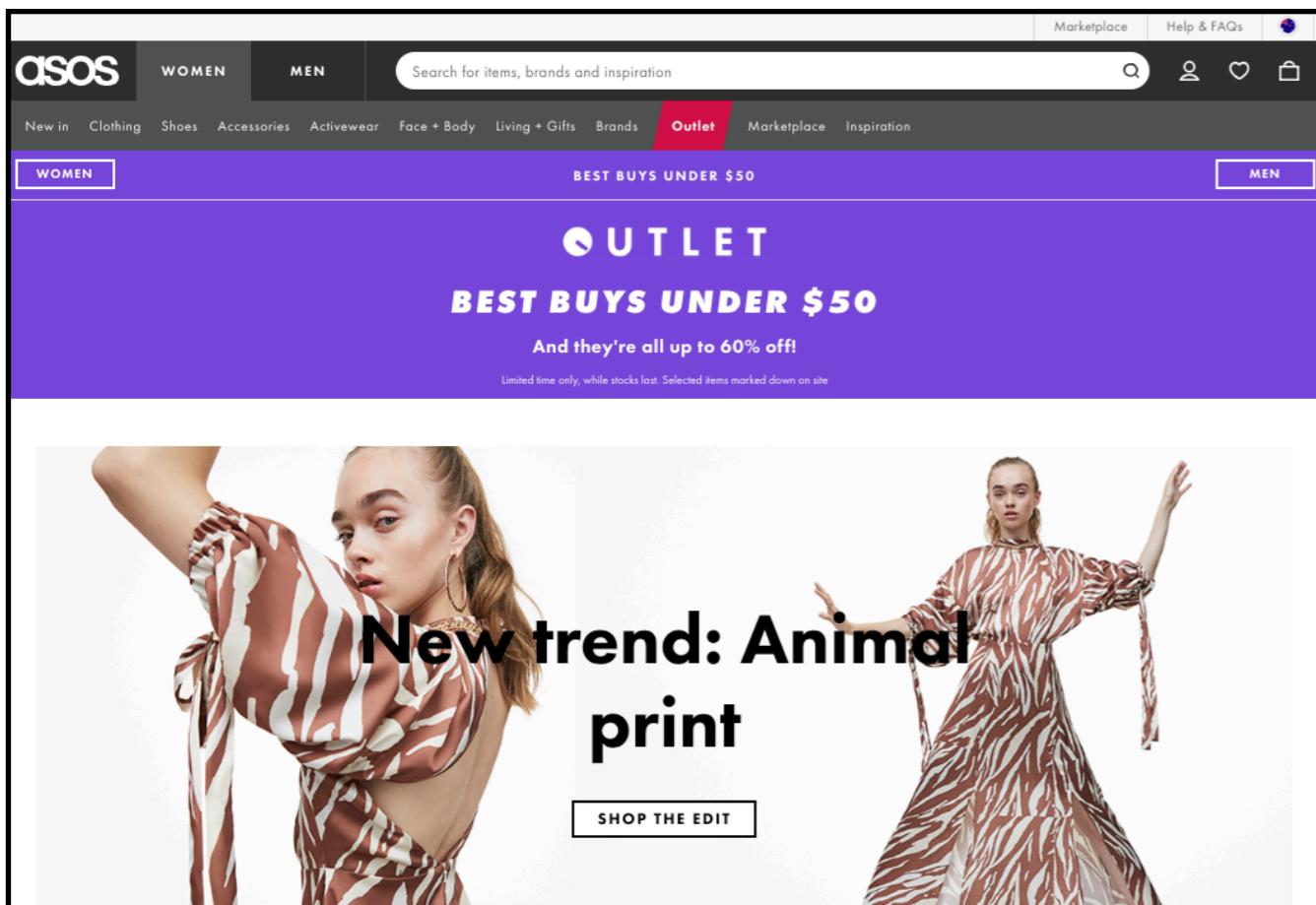
THINK OF CSS AS...



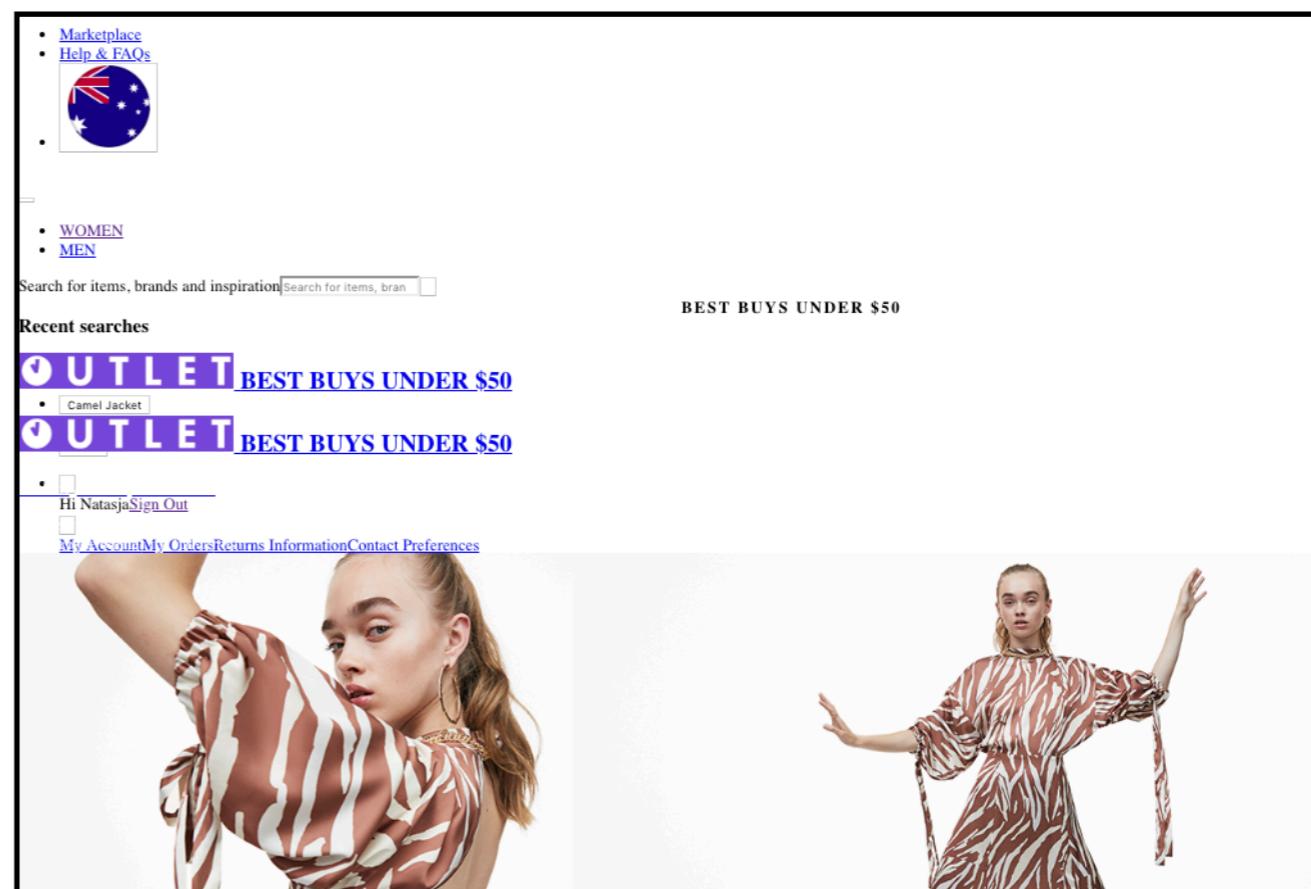
- ▶ A separate document telling the browser how your HTML looks
- ▶ A “Cascading” document that means styles can fall from one style sheet to another. So multiple style sheets can be used on one HTML document.



GENERAL ASSEMBLY - INTRO TO CODING



WITH CSS



WITHOUT CSS



CSS SYNTAX

```
selector { property: value; }
```

```
a { color: pink; font-size: 12px; }
```

SELECTOR

PROPERTY

VALUE



SELECTING BY A HTML ELEMENT

IN HTML FILE:

```
<p>I'm learning how to code tonight!</p>
```

IN CSS FILE:

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



CSS CLASSES

IN HTML FILE:

```
<p class="green">I'm a green paragraph!</p>
```

IN CSS FILE:

```
.green {  
    color: green;  
}
```



LINKING OUR CSS

```
<link rel="stylesheet" type="text/css" href="css/styles.css">
```



YOUR TURN!

- ▶ Make sure your CSS is linked by adding the link to your CSS Stylesheet between the two `<head>` tags: `<link rel="stylesheet" href="css/styles.css">`
- ▶ Let's centre our page with CSS
 - ▶ Add a `<main>` tag around ALL the elements we've added inside our document `<body>` tags.
 - ▶ Go to your CSS file and style the main by adding a max-width. Wrap all your CSS rules inside curly braces like this: `main { max-width: 600px; }`
 - ▶ Let's center it by using `margin: auto;`
 - ▶ All CSS properties that apply to the same selector, you include in the same set of curly braces. So the finished CSS above would look like: `main { max-width: 600px; margin: auto; }`
- ▶ Add some colors
 - ▶ Change the color of the `<h1>` tag
 - ▶ Try changing the background color of the body and see what happens
- ▶ Try adding a custom font by yourself by going to <https://fonts.googleapis.com>
- ▶ If you finish, go to: <https://flukeout.github.io>

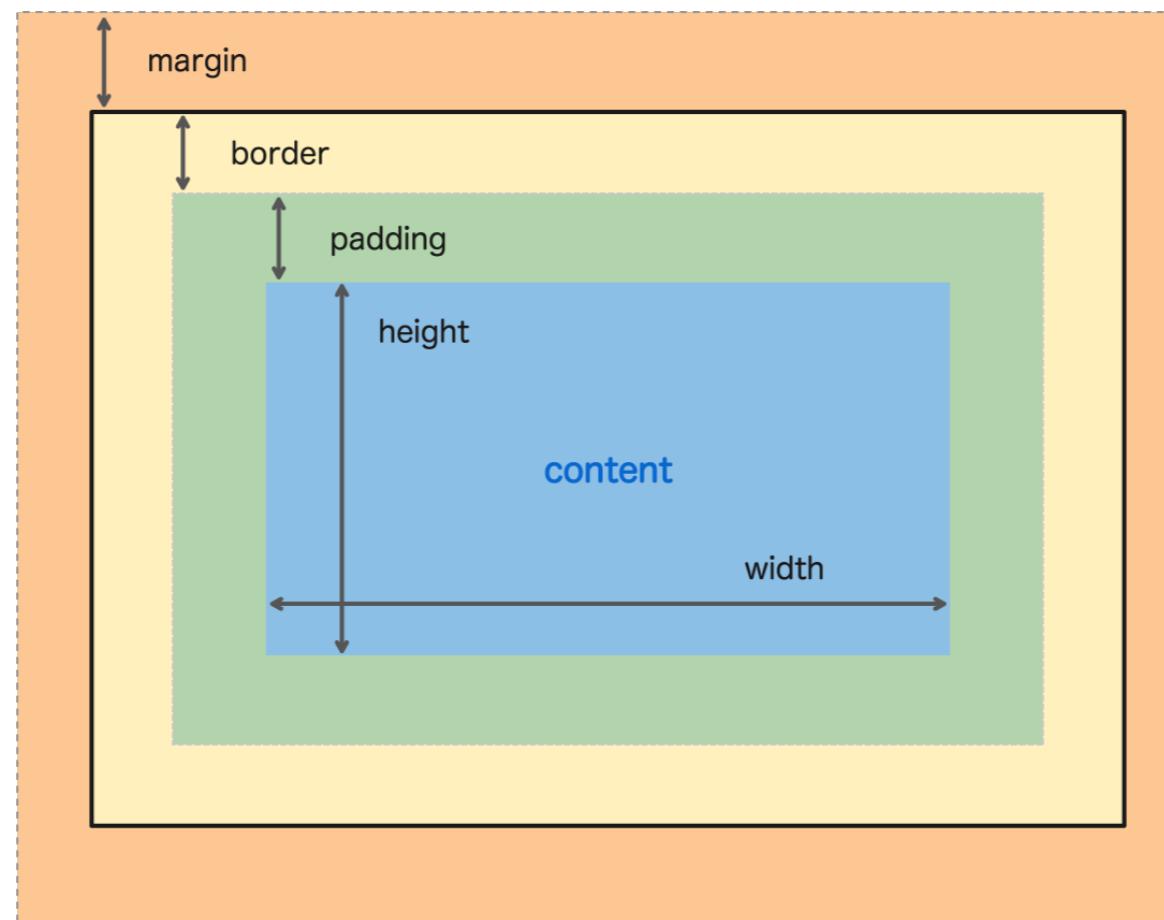


LUNCH TIME!



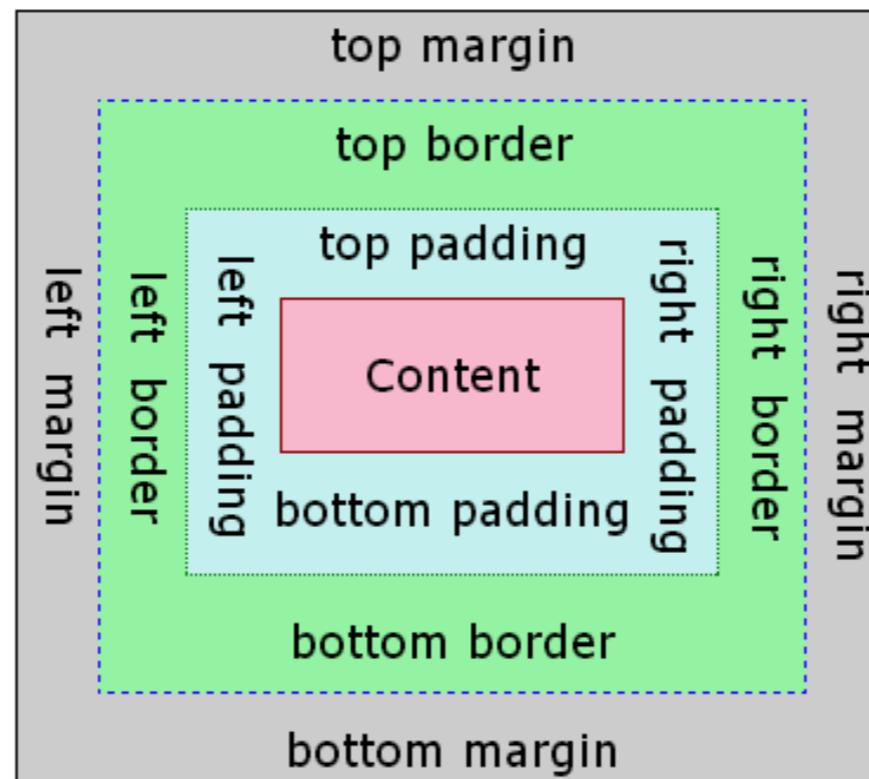
THE BOX MODEL

THE BOX MODEL



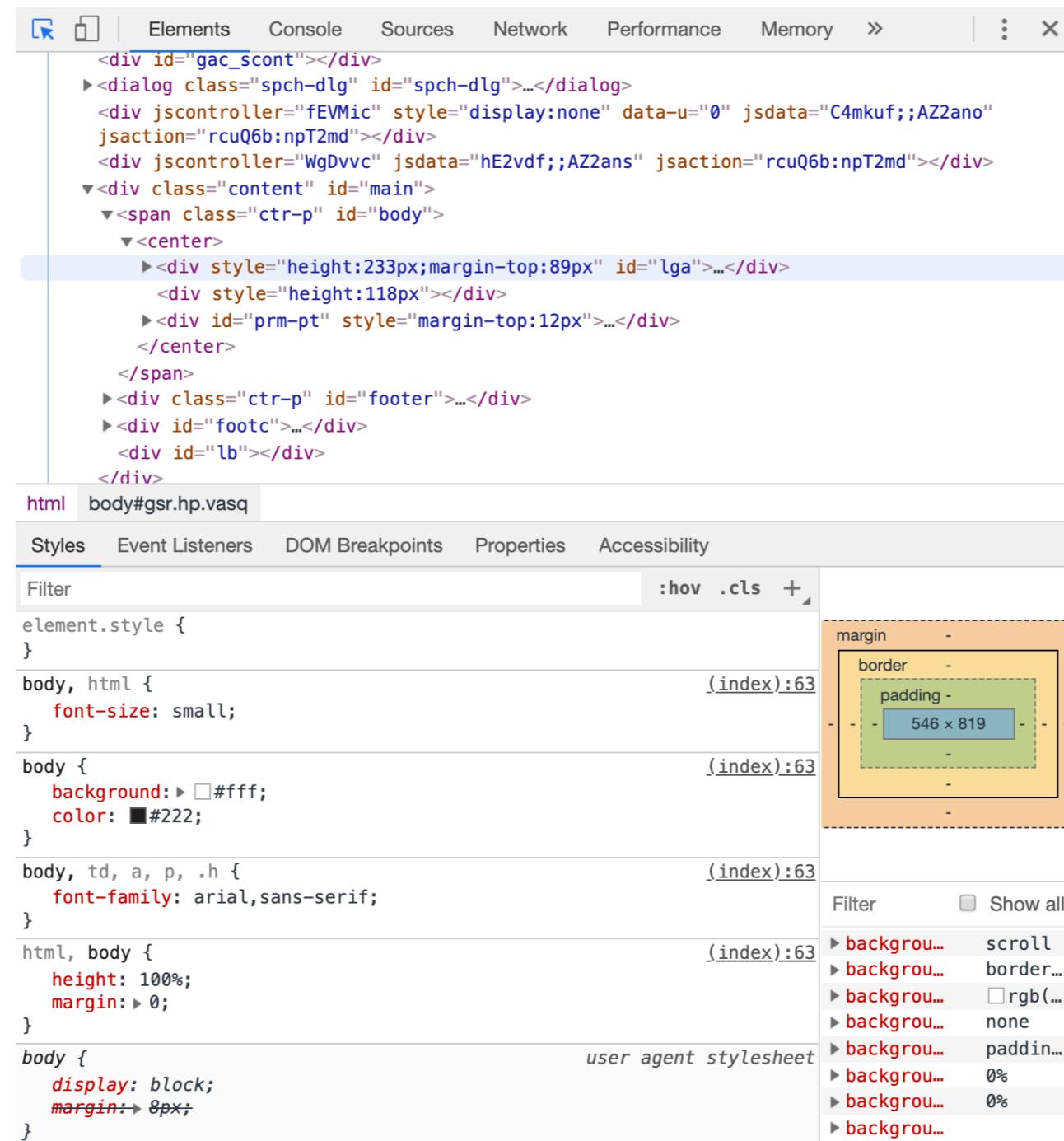
Every element in web design is a box

THE BOX MODEL



- ▶ **Height** = height of content + padding-top + padding-bottom + border-top + border-bottom
- ▶ **Width** = width of content + padding-left + padding-right + border-left + border-right

GOOGLE CHROME DEV TOOLS

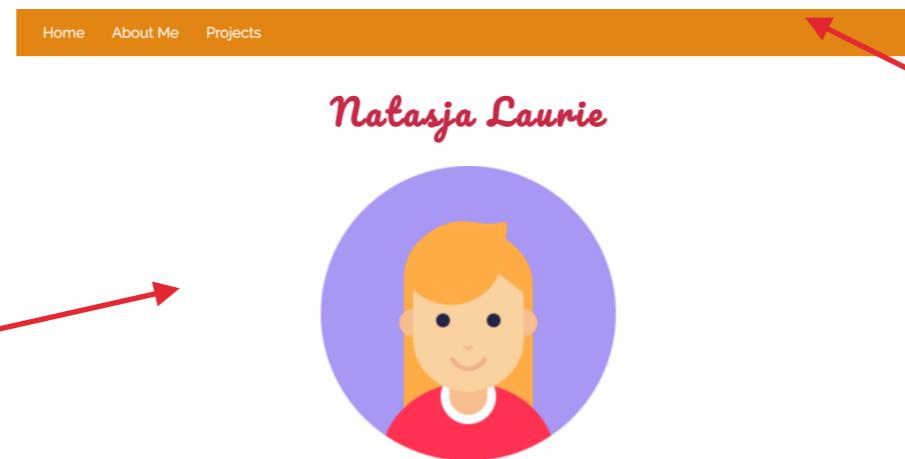


BOX MODEL EXERCISE

the rebels, the troublemakers,
the round pegs in the square holes.
The ones who see things differently.
They're not fond of rules. And they
have no respect for the status quo.
You can quote them, disagree with
them, glorify or vilify them. About
the only thing you can't do is ignore
them. Because they're everywhere.

PORTFOLIO

YOUR PORTFOLIO:



MAIN SECTION

NAVIGATION

The main section of the portfolio website. It includes an "About Me" section with a bio and a "Projects" section displaying a grid of nine placeholder cards, each with a geometric background and the text "COMING SOON STAY TUNED".

About Me

>Lorem ipsum dolor sit amet consectetur adipisicing elit. Earum corporis fugit, error dicta incidenteque tenetur autem aliquam aspernatur doloribus nulla repellat accusamus. Et molestias incidentobcaecati facere architecto.

Projects

COMING SOON STAY TUNED

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"PROJECTS" SECTION

"ABOUT ME" SECTION

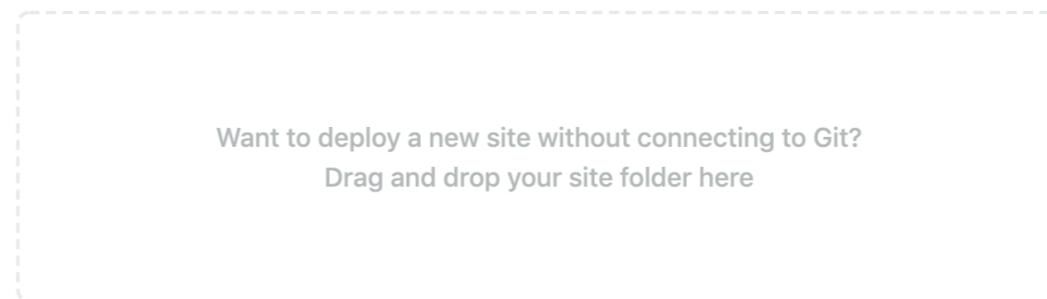
FOOTER



COFFEE BREAK

LET'S MAKE OUR WEBSITE LIVE!

- ▶ Go to www.netlify.com
- ▶ Sign up to create a free account
- ▶ Go to the dashboard
- ▶ Drag and drop your website folder into this space:



- ▶ To visit your site, click on the randomly generated name Netlify creates:

youthful-ardinghelli-fe460d

- <https://youthful-ardinghelli-fe460d.netlify.com>

WHAT'S NEXT?



HOW TO LEARN THIS AT GA?



PART-TIME
FRONT-END WEB
DEVELOPMENT



FULL-TIME
WEB DEVELOPMENT
IMMERSIVE

ONLINE
DASH

[HTTPS://DASH.GENERALASSEMB.LY](https://dash.generalassemb.ly)



GOOD REFERENCES

- ▶ W3Schools.com
- ▶ developer.mozilla.org
- ▶ sidebar.io
- ▶ devdocs.io
- ▶ css-tricks.com
- ▶ tympanum.net/codrops



STAYING CURRENT

- ▶ Smashing Magazine
- ▶ CSS Tricks
- ▶ Medium
- ▶ Web Designer Weekly
- ▶ codepen.io



**PLEASE DON'T
FORGET THE SURVEY!**

Q&A





NATASJA LAURIE

THANK YOU!