

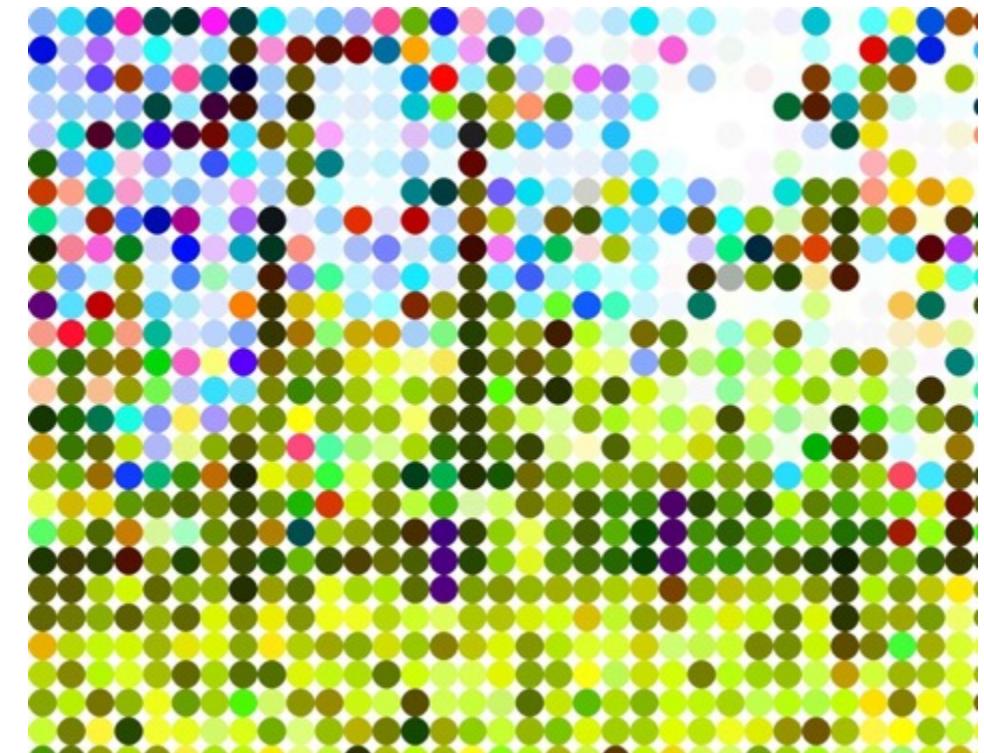


Inspiration Day 1

Share Academy – September 25, 2024

Roëlla Lieveld

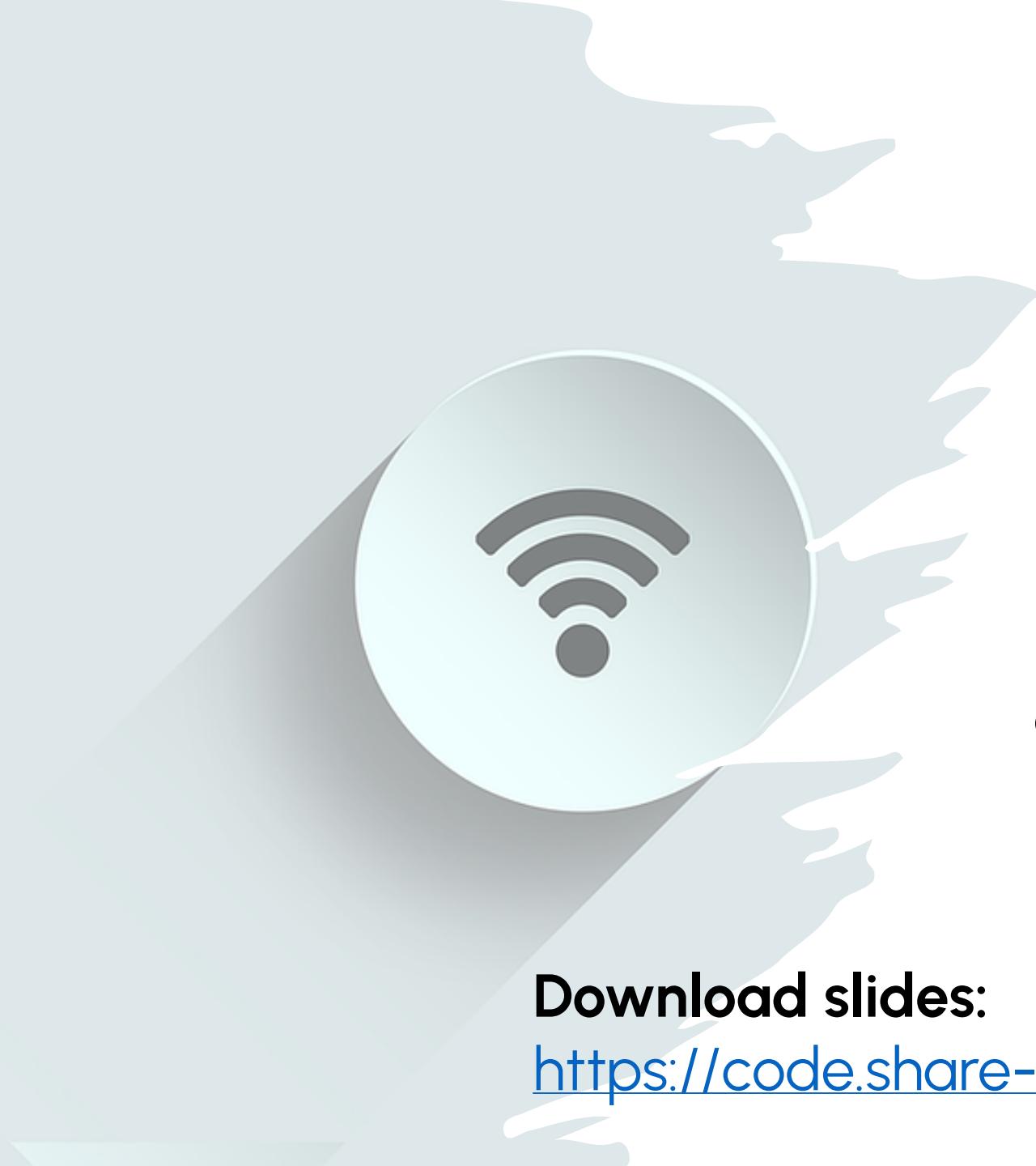
Dorien & Hidde



Welcome!

10:30	Introduction: Overview of today's activities & inspiration days
10:45	Codecademy course: What did you learn so far / HTML CSS
11:15	Challenge 1: Install code editor + extensions & create HTML page together
11:45	Challenge 2: Create a page on your own
12:30	Lunch break
13:15	Website project introduction + discuss idea's + group/individual?
13:45	Challenge 3: Create some pages for your website
14:15	Challenge 4: Simple horizontal menu with HTML (optional)
14:45	Questions & feedback
15:00	End of this Inspiration day





WIFI



SSID:

Lokaal Lokaal Gast

Password:

allpalacesaretemporarpalaces

Download slides:

<https://code.share-network.org/inspiration-days>



Welcome / Warm up

- Your names please 😊
- What are your goals?
- What are your expectations?
- What do you need to keep making progress and stay motivated?
- Do you need any help?



Inspiration days

- Three Inspiration days:
 - HTML, CSS & Javascript
- Graduation ceremony + website presentation
- Transfer Codecademy theory to practical exercises
- **Create a personal website**
- Do small code assignments & exercises
- Create simple features for your website
- Help and support from developers and fellow students
- Social connection / get to know other students & learn from each other

Inspiration Days & Graduation

Inspiration Day 1 – September 25th

Inspiration Day 2 – October 23rd

Inspiration Day 3 – November 21st

Graduation: December 12th





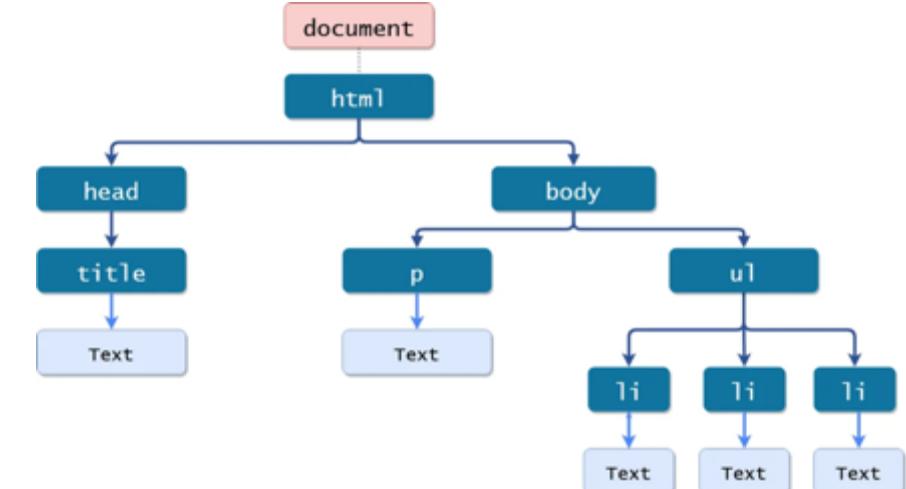
Requirements for your website

- A design
- Header & Footer
- Three different pages
- Interactive element
- All hand coded

You need to understand what you have coded

Codecademy: What did you learn so far?

- What is HTML?
- HTML document structure (like a tree, parent > child)
- <head> and <body>
- Syntax: The rules of the HTML language
- Elements, tags and attributes
- Frequently used elements
 - Layout elements
 - Content elements





What is HTML?

- HTML = Hyper Text Markup Language
 - Hypertext is text with links to other information (other pages)
 - Programming language for webpage(s)
- HTML is used to create structure in your website
- HTML has a lot of elements to create that structure, also called semantics
- HTML is **not** used for styling
- HTML documents have the ".html" file extension

HTML Document

An empty HTML document looks like this:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

</body>
</html>
```

HTML document is like a tree

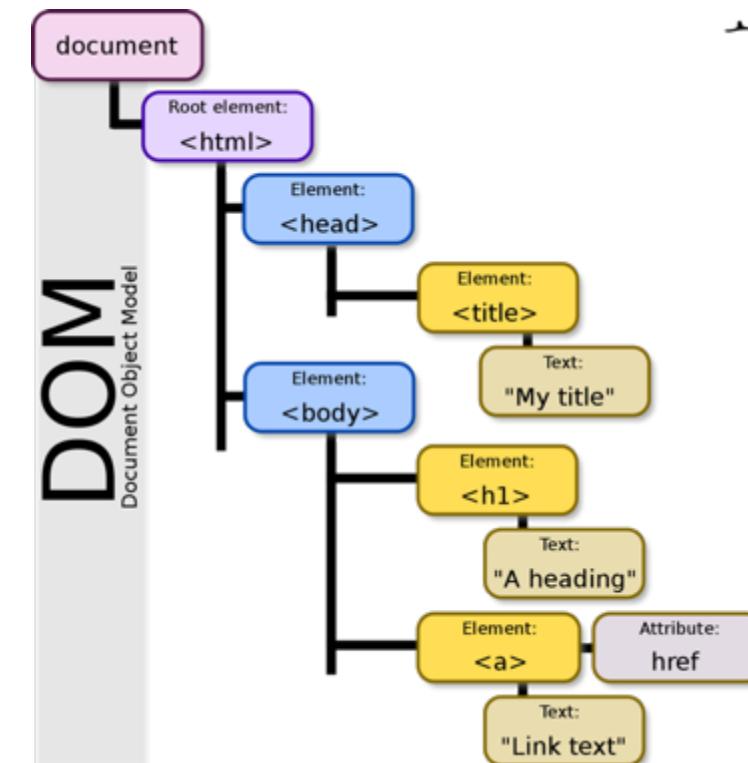


Try to see an HTML document as a tree with branches and leafs.

Every element can contain other elements that in turn can contain other elements and so on....

This structure of an HTML document is called the DOM or:

**Document
Object
Model**



HTML Code > Webpage

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Title</title>
</head>
<body>
  <h1>A heading</h1>
  <a href="http://website.com">Link text</a>
</body>
</html>
```



A heading

Link text



This HTML document will look like this in your browser.

What do you notice when you compare the code to the webpage in the browser?

<head> and <body>

The `<head>` element contains information **about** the page and other **meta** information that the webpage needs to function.

You can add scripts and stylesheets (CSS) to the `<head>`.

Elements you put in the `<head>` will not be visible in the webpage.

The `<body>` element contains everything you want to display on the webpage

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Title</title>
</head>
<body>
  <h1>A heading</h1>
  <a href="http://website.com">Link text</a>
</body>
</html>
```

HEAD

BODY

HTML Elements

What are the rules of the HTML language

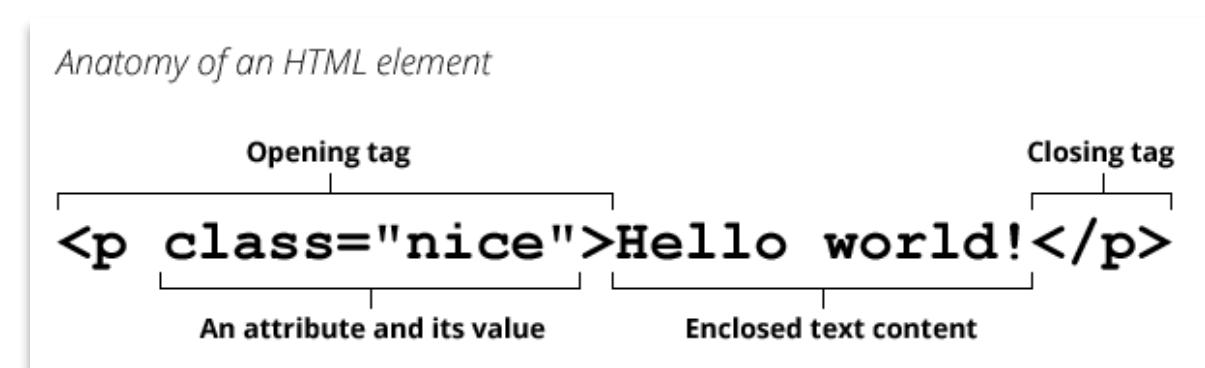
HTML elements consist of an **opening tag** and a **closing tag** (with some exceptions)

In the example to the right the tag that is used is the **P tag**:

The **content** of the element is always **between** the **opening** and **closing** tag

An element can have attributes.

Here the attribute's name is **class** and the attribute value = "**nice**".



See: <https://developer.mozilla.org/en-US/docs/Glossary/Element>

Semantic HTML

HTML comes with a wide range of elements you can use. This does mean that you have to research which element is the one to use in your context. For example:

Good

```
<h1>This is a title</h1>
<p>this is a paragraph</p>
```

Bad

```
<h1>This is my paragraph with allot of text,
but I want it to look big</h1>
<div>this is my paragraph</div>
```

Always pick an element that closely matches the **meaning** of the content. This is semantics. This will help browsers understand your content. And it will help users that have a disability.

See: https://developer.mozilla.org/en-US/docs/Glossary/Semantics#semantics_in_html



Frequently used content elements

<h1> - **<h5>** for headings / titles

<p> for paragraphs of text

<a> for links to other pages/websites

**** for displaying images

**** and **** for ordered and unordered lists of things

**** and **** - For importance and emphasis

<video> and **<audio>** for embedding video and audio

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>



Frequently used structural & layout elements

<header>, <main>, <footer> for overall document structure

<section>, <article>, <aside>, <div> for sectioning your content

<nav> for navigation

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>

Example: content and structural elements

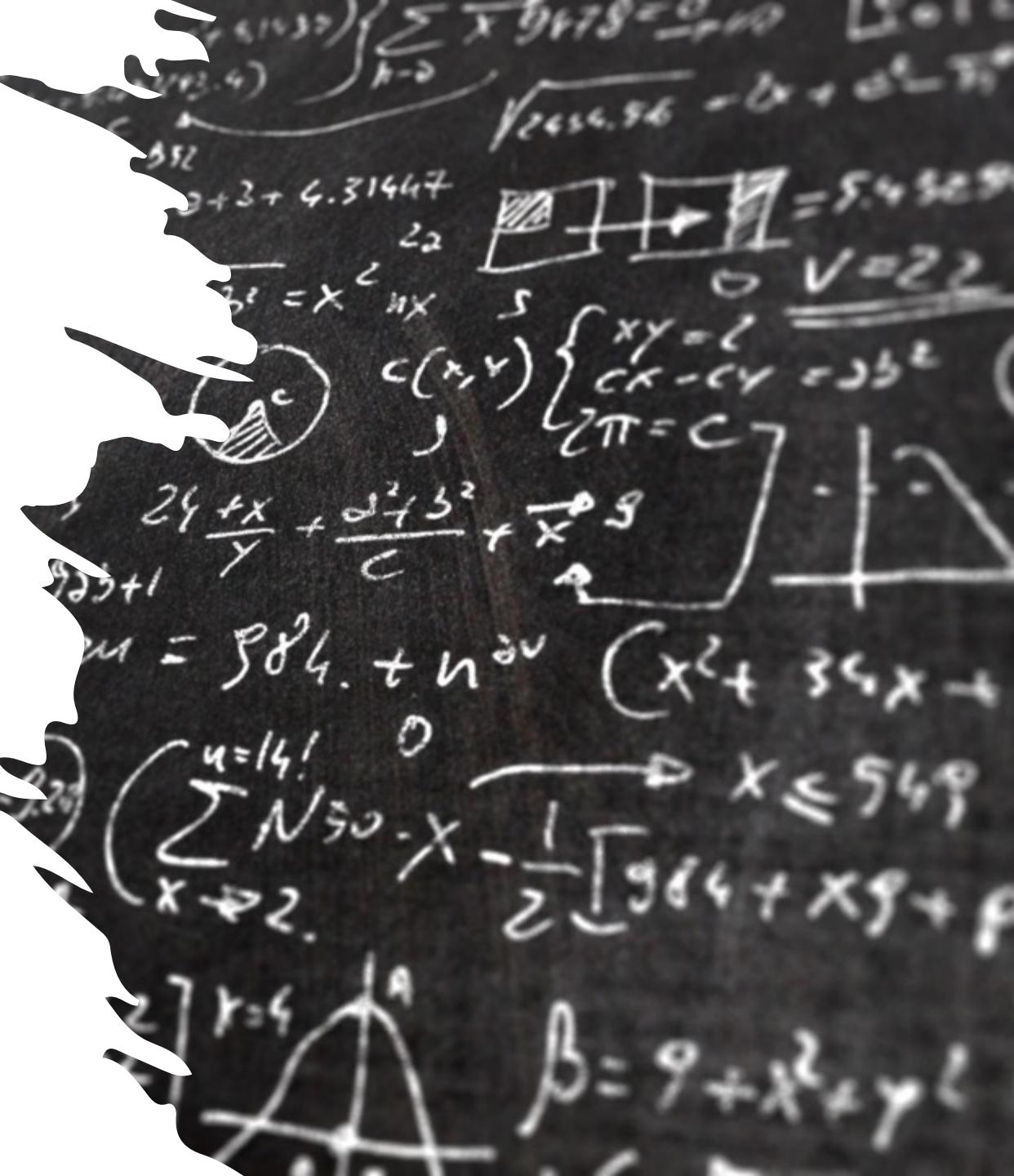
```
<body>
  <header>
    <h1>My website</h1>
    
  </header>
  <main>
    <section>
      <article>
        <h2>My article about coding</h2>
        <p>
          Coding is <strong>really</strong> hard, so you have to practice, practice, practice.
          Take a look at my <a href="https://mywebsite.com">My website!</a>
        </p>
      </article>
    </section>
  </main>
  <footer>
    <a href="terms.html">Terms & conditions</a>
  </footer>
</body>
```

That was a lot of information...

And... there is also lot of information on the internet. Google is your friend for this.

Don't worry, we will start coding in a moment ...

First we have to install a **code editor** so we can write HTML en preview the code in our webbrowser

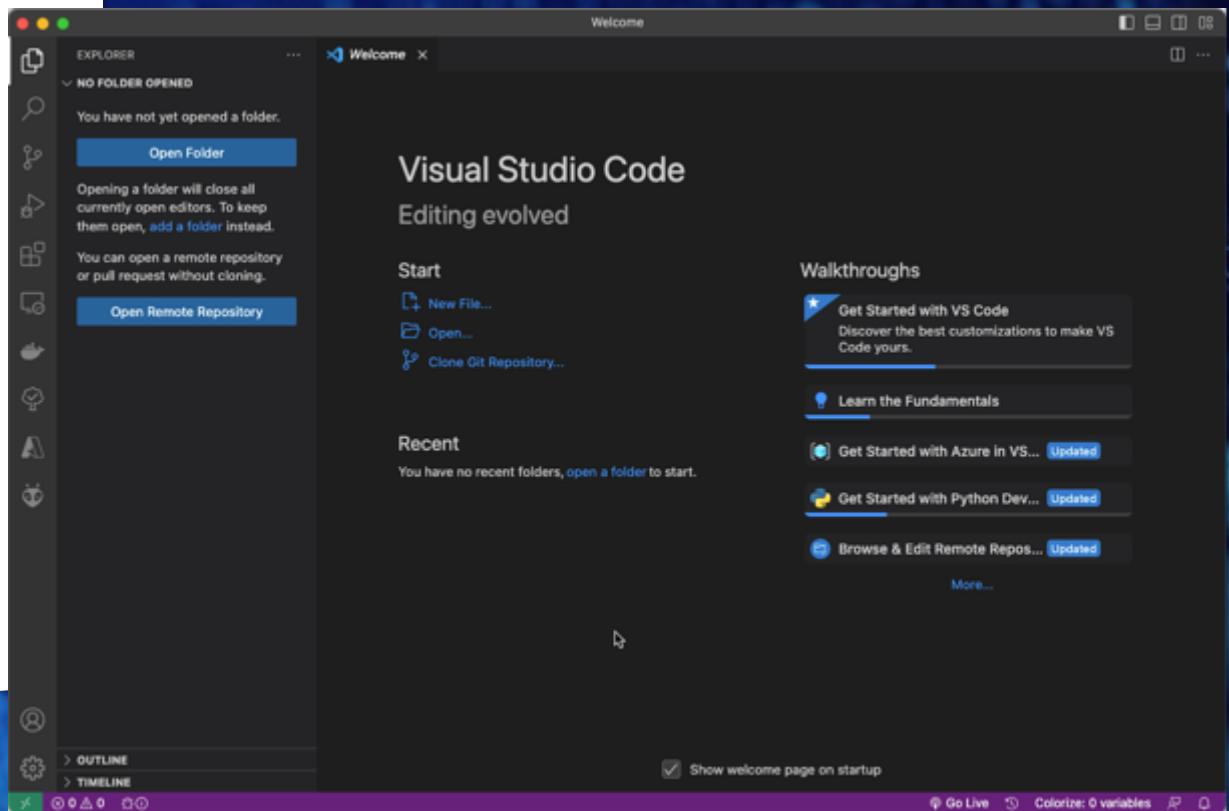


Challenge 1: Install VS Code

1. Go to the Visual Studio Code website:
<https://code.visualstudio.com/>
2. Install VS Code
3. Start Visual Studio Code

Next:

Install a few useful VS Code extensions...

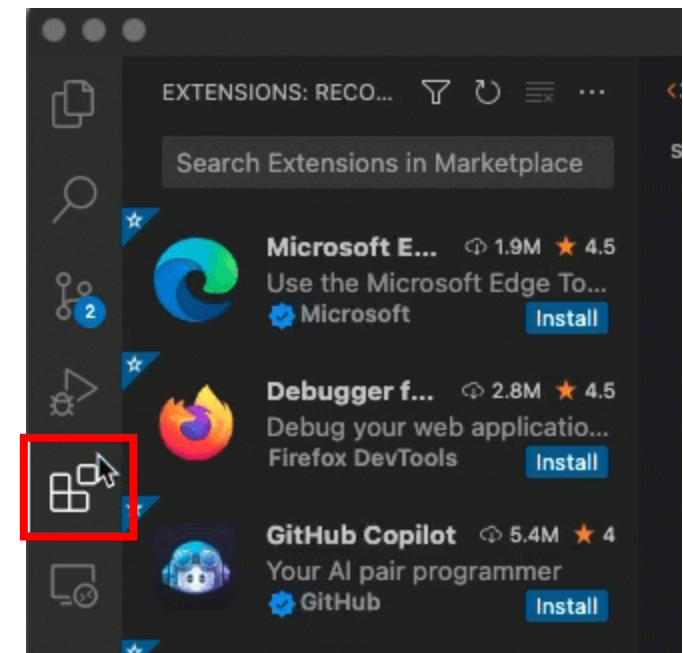


Install extensions for VS Code

Extensions enable extra functionality for VS Code, to help you while coding

How to search for and install extensions:

- Click the icon with the squares
- Search for name of the extension
- Click install
- Read the documentation of the extension!
- Try to install these extensions:
 - HTML CSS Support. (**ecmeli**)
 - Live server. (**Ritwick Dey**)



More extensions: <https://marketplace.visualstudio.com/vscode>



Create your (first?) HTML page

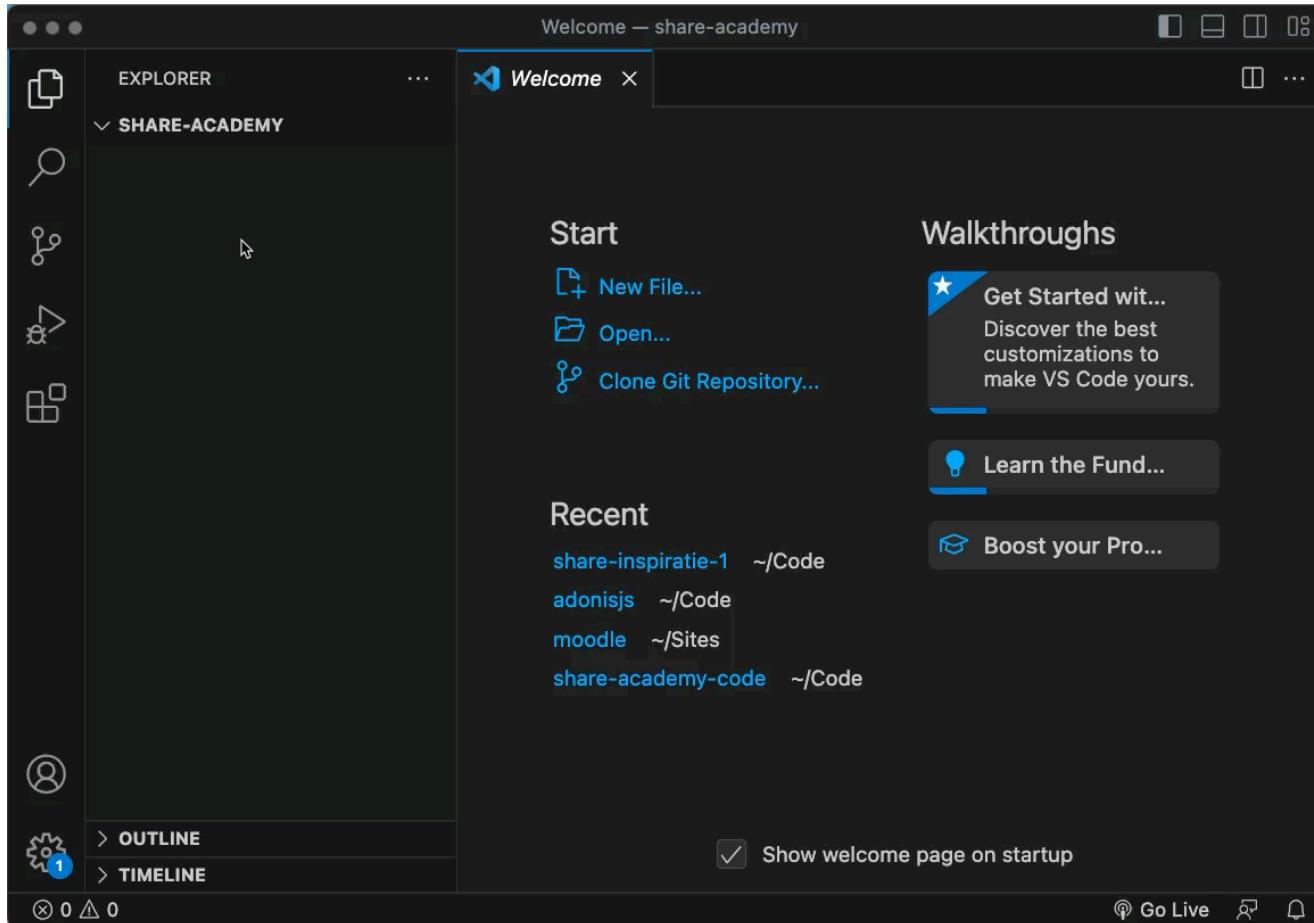
Create a new folder to work in on your desktop or another location you can easily remember

Give it a clear name like: **share-academy**

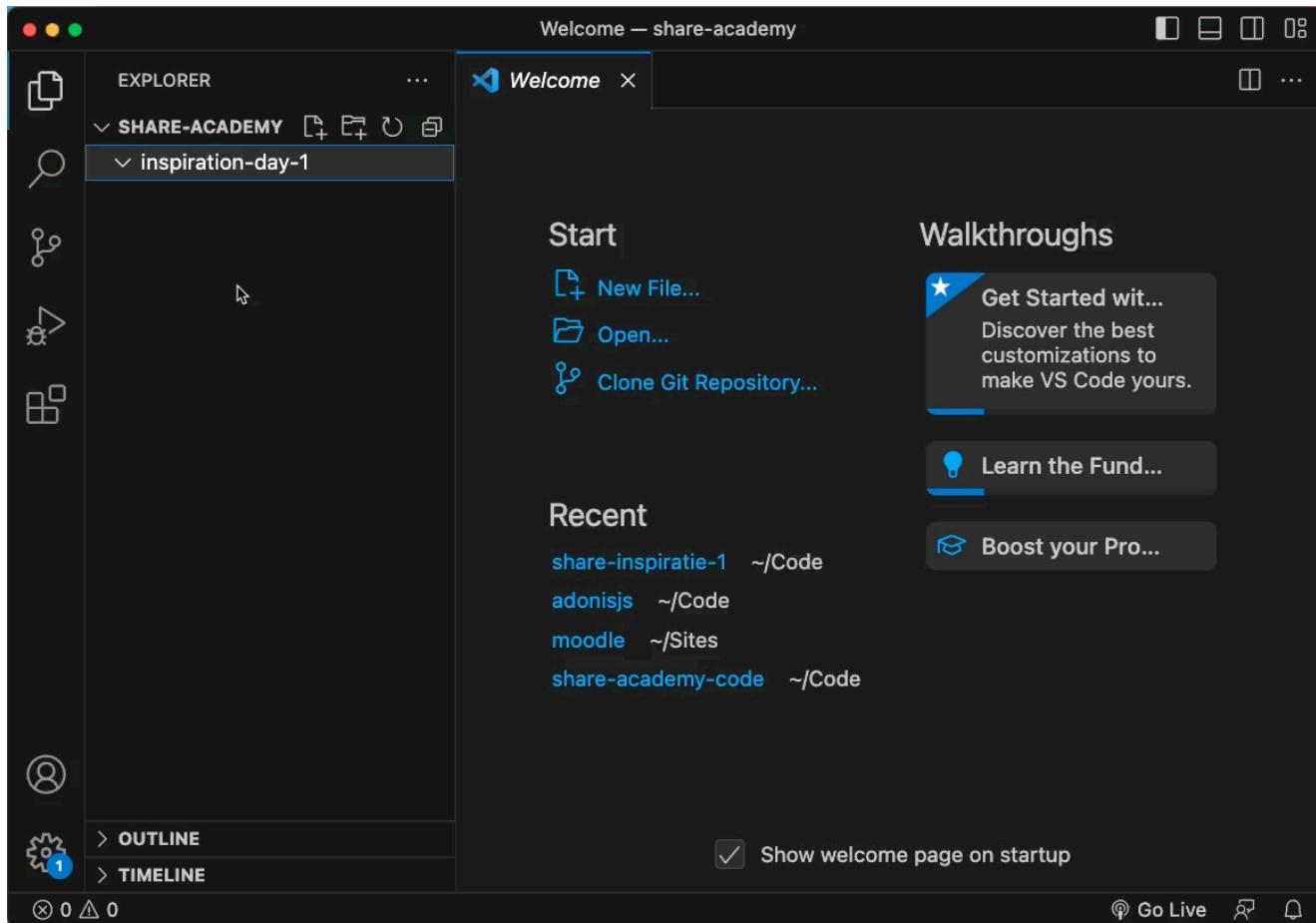
- Open this folder in VS Code. (File > Open folder)
- Create a folder: **inspiration-day-1**
- In this folder create a new file and name it: **index.html** (File > New text file)
- Create a default HTML structure by typing:

! and pressing the  key

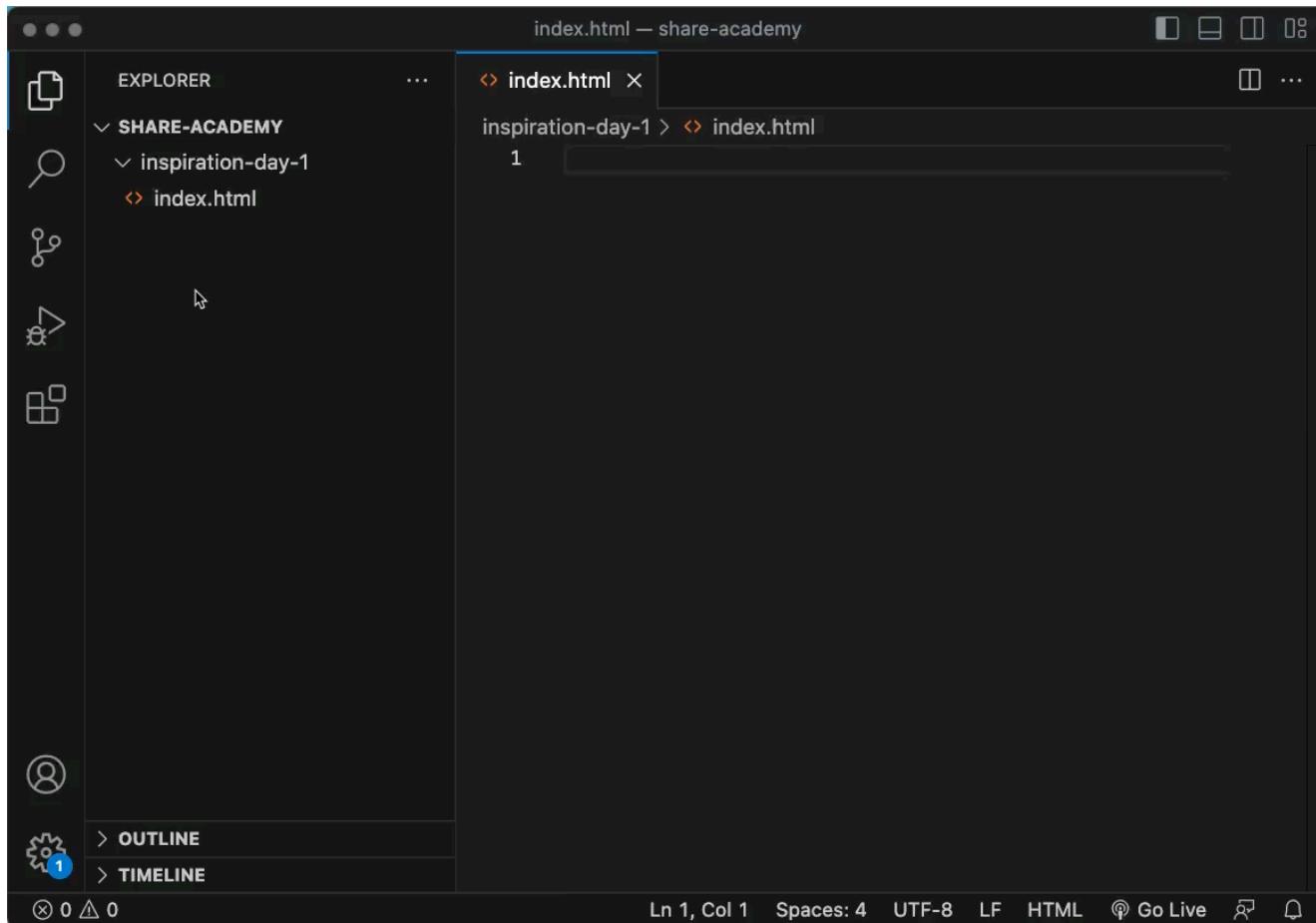
Create a new folder



Create a new HTML page



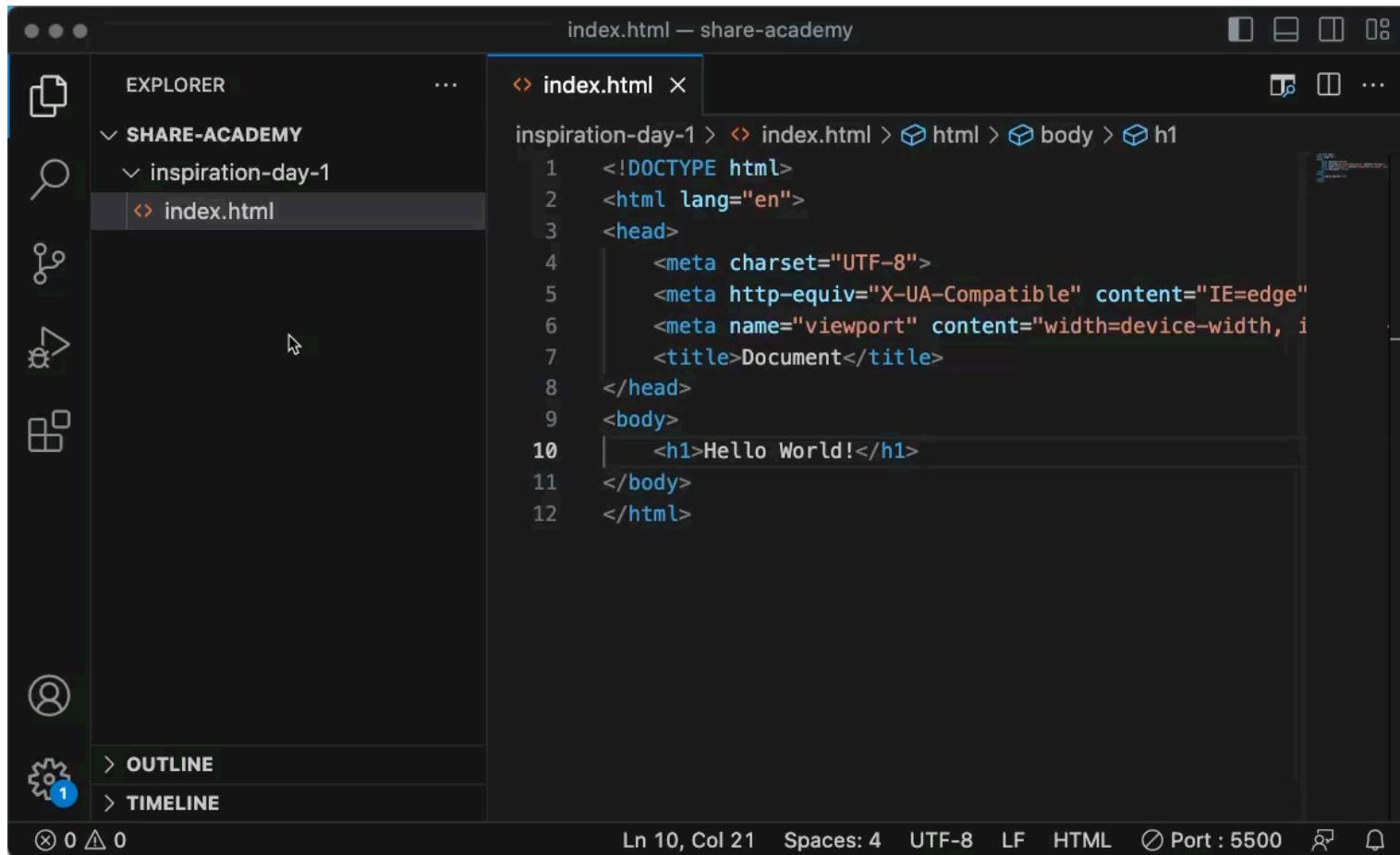
Create the standard HTML document structure



Write some HTML

- Modify the **<title>** of the document so it reads **Inspiration day**
- Inside the **<body></body>** add HTML code
- For example a **<p>** or **<h1>** element with your name
- Save the file (File > Save or CTRL+S)
- Preview your page
 - Right click and choose "Open with Live server" or "HTML preview"

Preview your HTML page



The screenshot shows a code editor interface with a dark theme. On the left is the Explorer sidebar, which lists a project named "SHARE-ACADEMY" containing a folder "inspiration-day-1" and a file "index.html". The main area displays the content of "index.html". The code is as follows:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge"
6      <meta name="viewport" content="width=device-width, i
7      <title>Document</title>
8  </head>
9  <body>
10     <h1>Hello World!</h1>
11  </body>
12  </html>
```

The status bar at the bottom shows the following information: Ln 10, Col 21, Spaces: 4, UTF-8, LF, HTML, Port : 5500, and a few small icons.

Challenge 2: Create a page on your own

Open a browser and go to <https://www.w3schools.com/> and click **HTML**

Use the HTML page for reference and help to create a simple webpage yourself.

This is an exercise to start coding in HTML, looking things up, get confused, ask for help, and finding the solution

- Create a new HTML file: **page.html**
- Add the default HTML document structure (remember how?)
- Add in this order a **header**, **main** and **footer** element. (We will do this together)
- Inside the header put a **h1** with your name (see HTML Headings on the help page)
- Inside the main add an **article** element with some paragraphs of text
(See HTML Paragraphs, HTML Structural)
- Make some words **bold or italic** with the **strong** and **em** elements (See HTML Formatting)
- Link one or more words in your text with the **a** element to a website you know. (see HTML Links)
- Add an image to the **article** tag (see HTML Images)
- Add a shopping list with the **ol**, **ul** and **li** elements
(See HTML Lists)

Preview frequently / ask for help if you get stuck



Lunch break



Personal website project

Learn by doing: create your own website

Work on the project alongside the Code academy course

- You have until graduation day to work on your website
- Work on it as much as possible
- **Finish it on time & present it at graduation day to get your completion certificate**

Practice makes perfect:

- Transfer your new knowledge to your website
- You will learn faster and deeper by working on real challenges
- Get frustrated, fail a little (failure is feedback) and succeed (be proud)
- This promotes problem solving on your own



Requirements for your website

- A design
- Header & Footer
- Three different pages
- Interactive element
- All hand coded

You need to understand what you have coded



So...what kind of website do you want to create?

- A simple webpage or website (multiple pages together)
- **Examples:**
 - Webshop
 - Booking agency
 - Product landingpage
- **Or come up with your own idea**
- Don't be afraid:
 - Do as if you already know how to build it!
 - "Fake it until you make it"

Some tips & “requirements”

Content

- Use real content, no dummy texts please
- Write your own texts and make your own photo's

Structure

- Semantic HTML (choose the right HTML tags for the content you use)
- Layout and styling with CSS
- Responsive (works on devices with different screen sizes)
- Try to create at least one page that expands to a multi-column layout on larger screens, and single column layout on small screens.

Basic features of the website

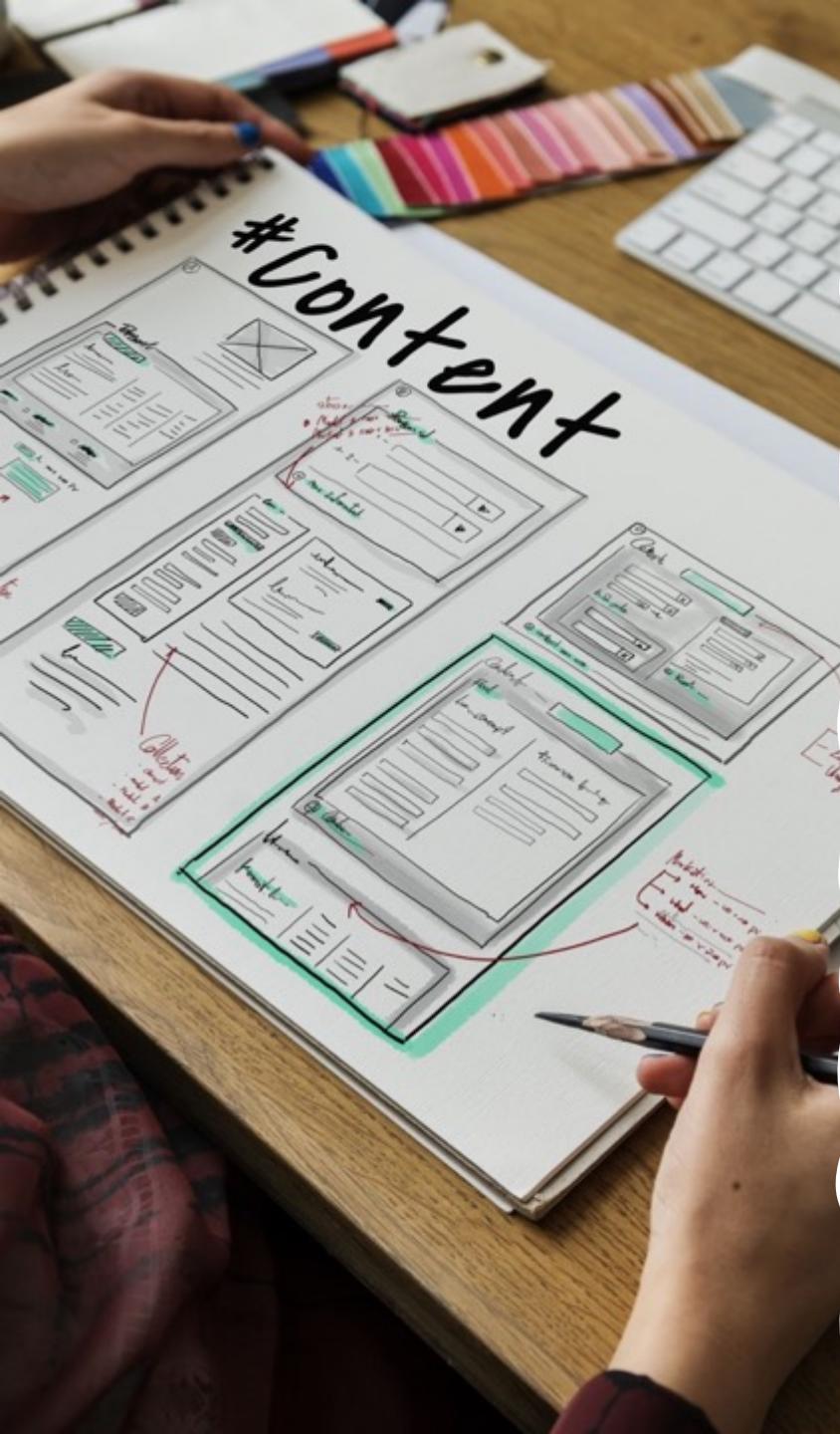
- Header with title and navigation menu (hamburger menu on mobile?)
- Images that are responsive (not wider than screen width)
- Clear and solid layout, typography (fonts) and colors





Pick one

1. E-commerce site / Webshop
2. Booking agency
3. Landing page for a product or service
4. **Your own idea (!!)**



E-commerce/webshop

Some ideas to get you started:

- Homepage
- Special offers section
- Product listing
- Product detail page
- Shopping cart
- Searching and filtering
- Categories
- Photo's

Examples



DJ Booking Agency

Some ideas to get you started:

- Overview of artists
- Audio / Video player
- Time schedule
- Upcoming events
- Booking form
- Biography and pictures
- Social feed integration
- Contact form

Inspiration:

[https://www.behance.net/search/projects?
search=booking+agency+music](https://www.behance.net/search/projects?search=booking+agency+music)



Product or service landing page

Some ideas to get you started:

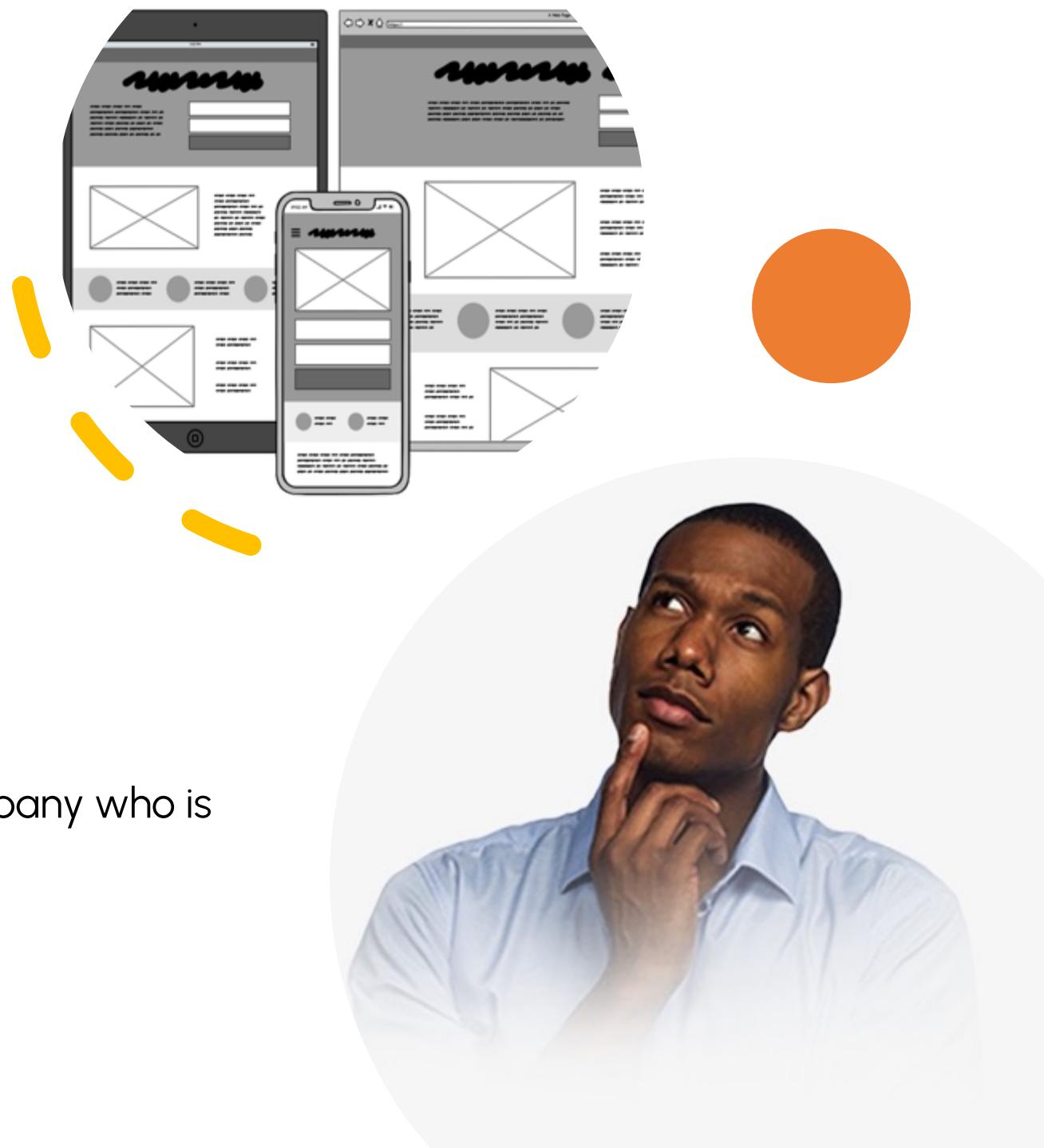
- Product texts and photo's
- Video about the product
- Pricing table or pricing options
- Product details
- Product sheet download
- Buy now button / Call-to-action
- Newsletter signup form

Inspiration:

<https://www.marketermilk.com/blog/product-landing-page-examples>

Let's brainstorm

- Think about the website you want to create
- What pages does it need to have?
- What functionality is needed
- What layout & content do the pages have?
- Think freely, as if you are the owner of a company who is giving an assignment to a web developer ☺

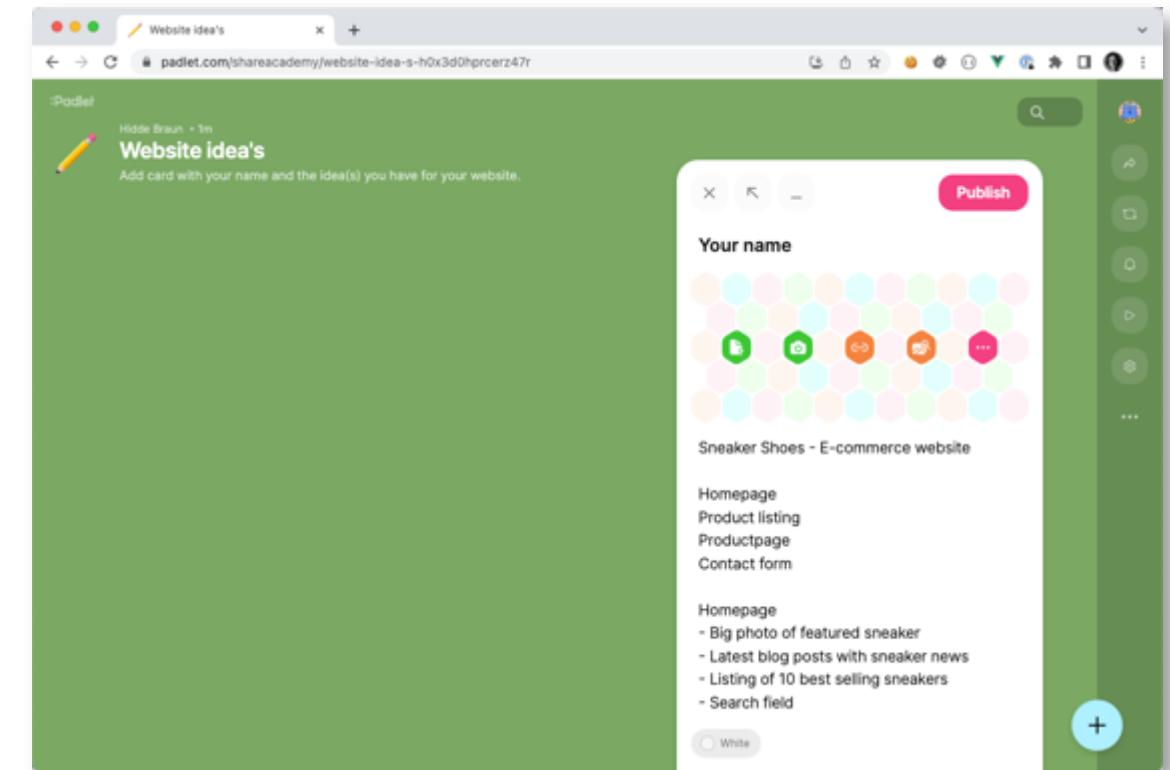


Add your first idea's to this board

Go to: <https://padlet.com/shareacademy/ideas>

- Create a new card
- Add your name
- Write a short description of the website
- What type of website will it be?
- What pages does the website need to have?
- What content do these pages have?
- What features are needed?

Just add some first ideas to get started



February 28, 2024



Want to create a website about
fantasy worlds and races

0
Add comment

Anonymous 6mo

Ah

children born in war.

Their well-being during and
after the war

what happens to their mental
health

Their safety, education, health,
feeding.

Their security.

0
Add comment

Anonymous 6mo



LGBTQIA+

0
Add comment



0
Add comment

mahsa 6mo
let's help homeless animals

+ Add comment

Anonymous 6mo

fashion and lifestyle



this is a studio music

Beauty, Fashion and Lifestyle
skincare and hair

0
Add comment

0
Add comment



1. About my websites

2. Healthy Tips

3. Nutritious Recipes

4. Reasons to keep Healthy

5. What a Healthy Lifestyle does
to your body

6. Membership Plans to Join Our
Healthy Programs

0
Add comment

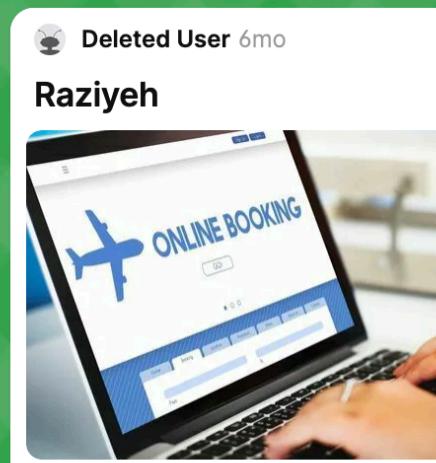
Anonymous 6mo

**music review or a website for
a recording artist.**

By Sheikh:

About the Page

0
Add comment



Online booking

0
Add comment

Mehdi Bakad 6mo

**i dont know what to create
yet**



i have a lot of ideas but i can't
choose one RN

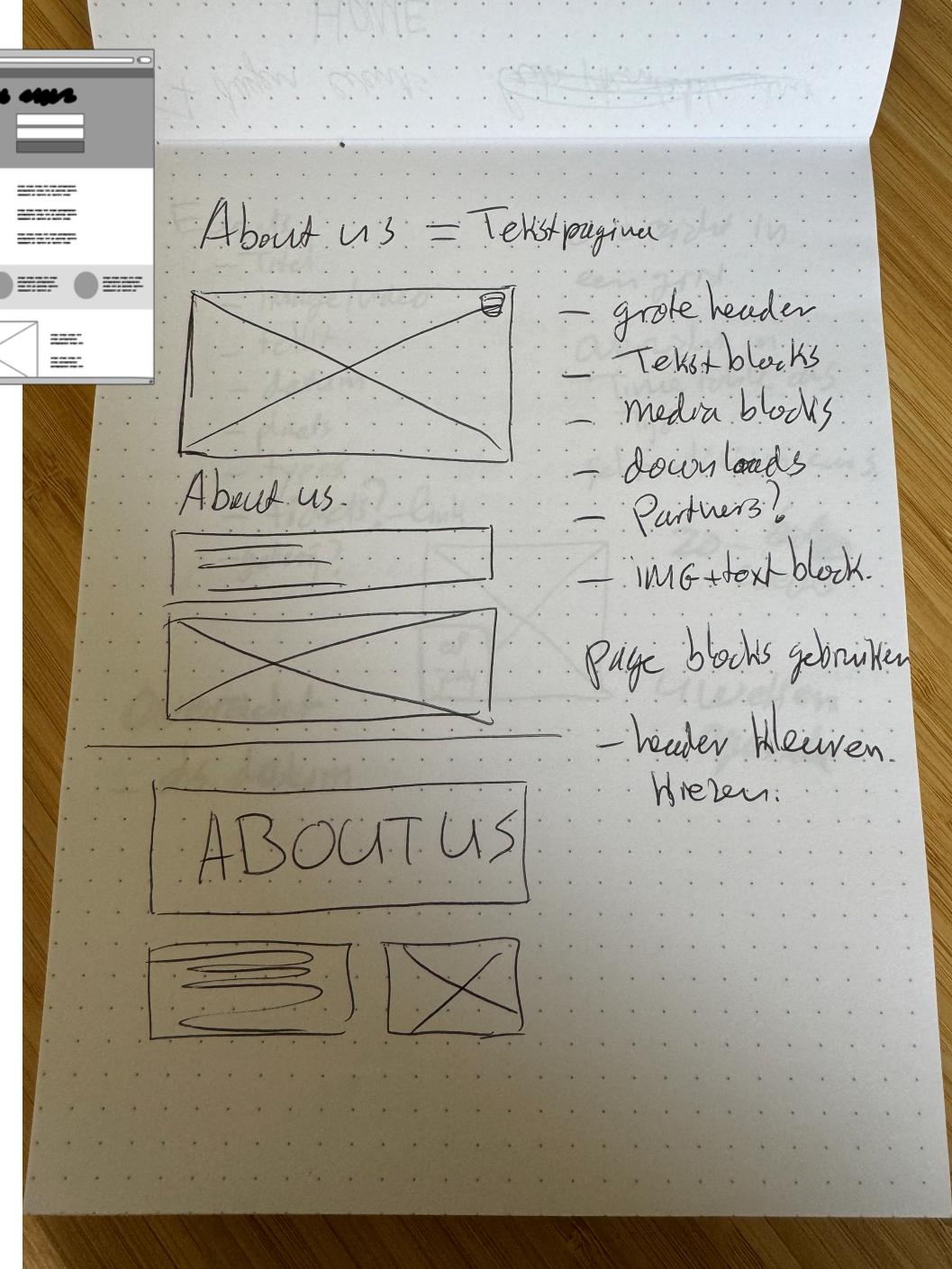
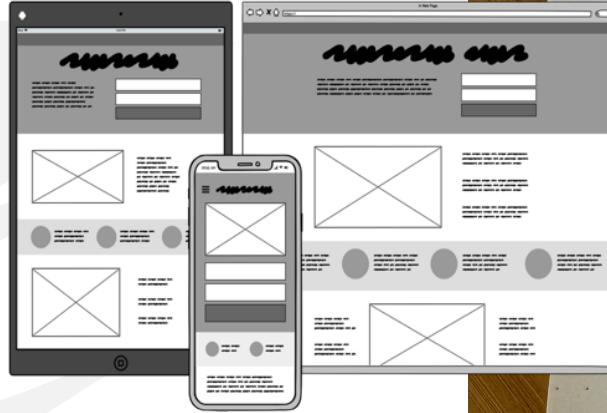
0
Add comment

Sketching & Wireframes

Before creating any code we sketch what kind of information we want on our website. This does not have to be pretty, just to get a general idea of what we want to create.

Sketching is also a great way to problem solve if you are stuck!

<https://balsamiq.com/learn/articles/what-are-wireframes/>



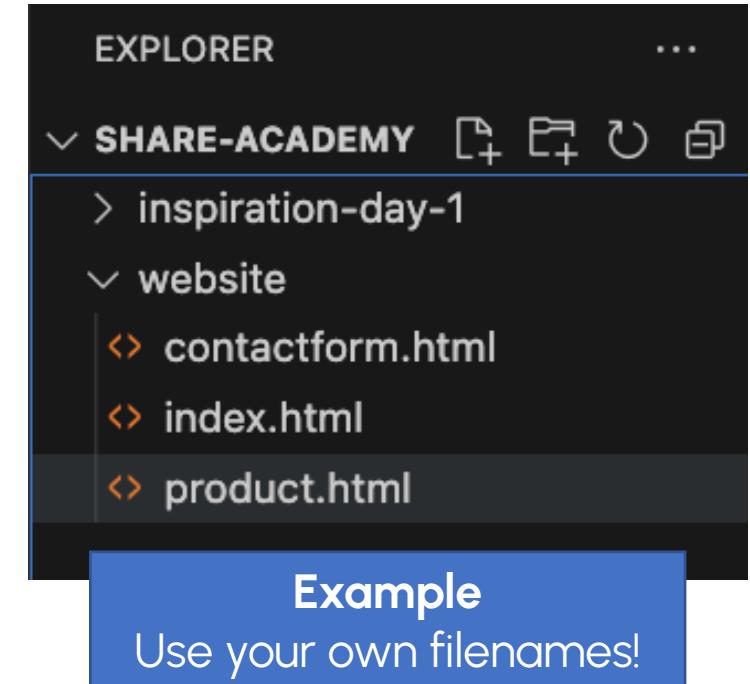
Challenge 3:

Create website pages

- Open your VS Code editor (open the folder you created if it is not still opened)
- Create a new folder "website"

In this **website folder**:

- Create an **index.html** for the homepage
- Create two other pages
 - Use **meaningful** filenames
 - Use **lowercase** filenames
 - Use the **.html** extension
- Add the HTML document structure to all the files
- Add a **header**, **main** and **footer** element to the body of all pages
- In the **header** add a **H1** element with the title of your website





Challenge 4:

Add a navigation menu with links to all pages

- This will allow the user to go to different pages in your website
- We will be coding together, step by step

```
<nav>
  <ul>
    <li><a href="index.html">Home</a></li>
    <li><a href="portfolio.html">Portfolio</a></li>
    <li><a href="about-us.html">About us</a></li>
    <li><a href="contact.html">About us</a></li>
  </ul>
</nav>
```

- [Home](#)
- [Portfolio](#)
- [About us](#)
- [About us](#)

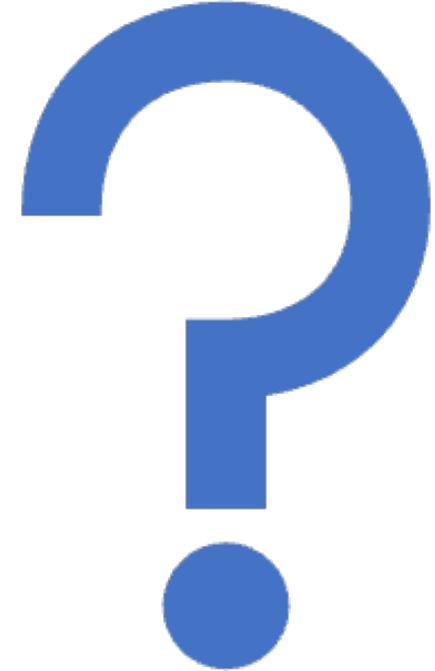
What's next?

- Continue with your Codecademy course
- Try to implement things from the course into your website
- Add menu items, change colors, add images...
- Search for tutorials online about HTML and CSS
- Practice, practice, practice ☺
- Next Inspiration Day we will learning more about CSS

Thank you for your presence and attention today!

**SHARE
NETWORK**

Questions?



Reference / Help

HTML

<https://web.dev/learn/html/>

<https://developer.mozilla.org/en-US/docs/Web/HTML#reference>

CSS

<https://cssreference.io/>

<https://developer.mozilla.org/en-US/docs/Web/CSS>

Google is your friend, use it!