



Core Lessons

1. What is CSS (cascading style sheets)?
2. The basics of CSS
 - a. What is a “selector”?
 - b. What is a CSS “property”?
3. The “Box Model”
 - a. Block vs. Inline Elements
 - b. Box Sizing
 - c. Layouts in CSS
4. CSS Units of Measure
5. Common CSS Properties
 - a. Font styling
 - b. Background styling
 - c. Color Codes
 - d. “Shorthand” CSS
6. A four-step system for writing great CSS and HTML
7. Code Challenges!

Optional Lessons

1. Media Queries and Responsive Web Design
2. Flexbox (coming soon)
3. CSS Grid (coming soon)

We will NOT cover...

1. Graphic Design and Wireframing
2. CSS Pre-processors (Sass, LESS)
3. CSS Frameworks (Bootstrap, Tailwind, Materialize)



The content

div 450 × 150

Inspector Console Debugger Network

Search HTML

```
<html style="box-sizing: border-box !important;">
  <head>...</head>
  <body>
    <div style="">The content</div>
  </body>
</html>
```

html > body > div

Filter Styles :hov .cls +

element { inline } div { inline:3 padding: 20px; margin: 20px; border: 5px solid black; width: 400px; height: 100px; }

Layout Computed Changes Fonts Animation

CSS Grid is not in use on this page

Box Model

margin
border
padding
400×100
20 5 20 20 20 5 20

450×150 static

Box Model Properties

display

Web technology for developers ▶ CSS: Cascading Style Sheets ▶ display

English (US)  Change language

Table of contents

Syntax

Description

Accessibility concerns

Formal definition

Formal syntax

Examples

The `display` CSS property sets whether an element is treated as a block or inline element and the layout used for its children, such as flow layout, grid or flex.

Formally, the `display` property sets an element's inner and outer *display types*. The outer type sets an element's participation in flow layout; the inner type sets the layout of children. Some values of `display` are fully defined in their own individual specifications; for example the detail of what happens when `display: flex` is declared is defined in the CSS Flexible Box Model specification. See the table at the end of this document for all of the individual specifications.

Syntax

The CSS `display` property is specified using keyword values. Keyword values are grouped into six value categories:



The content

Inspector Console Debugger Network

Search HTML

```
<html style="box-sizing: border-box !important;">
  <head> ... </head>
  <body>
    <div style="">The content</div>
  </body>
</html>
```

html > body > div

Filter Styles :hov .cls + Layout Computed Changes Fonts Animation

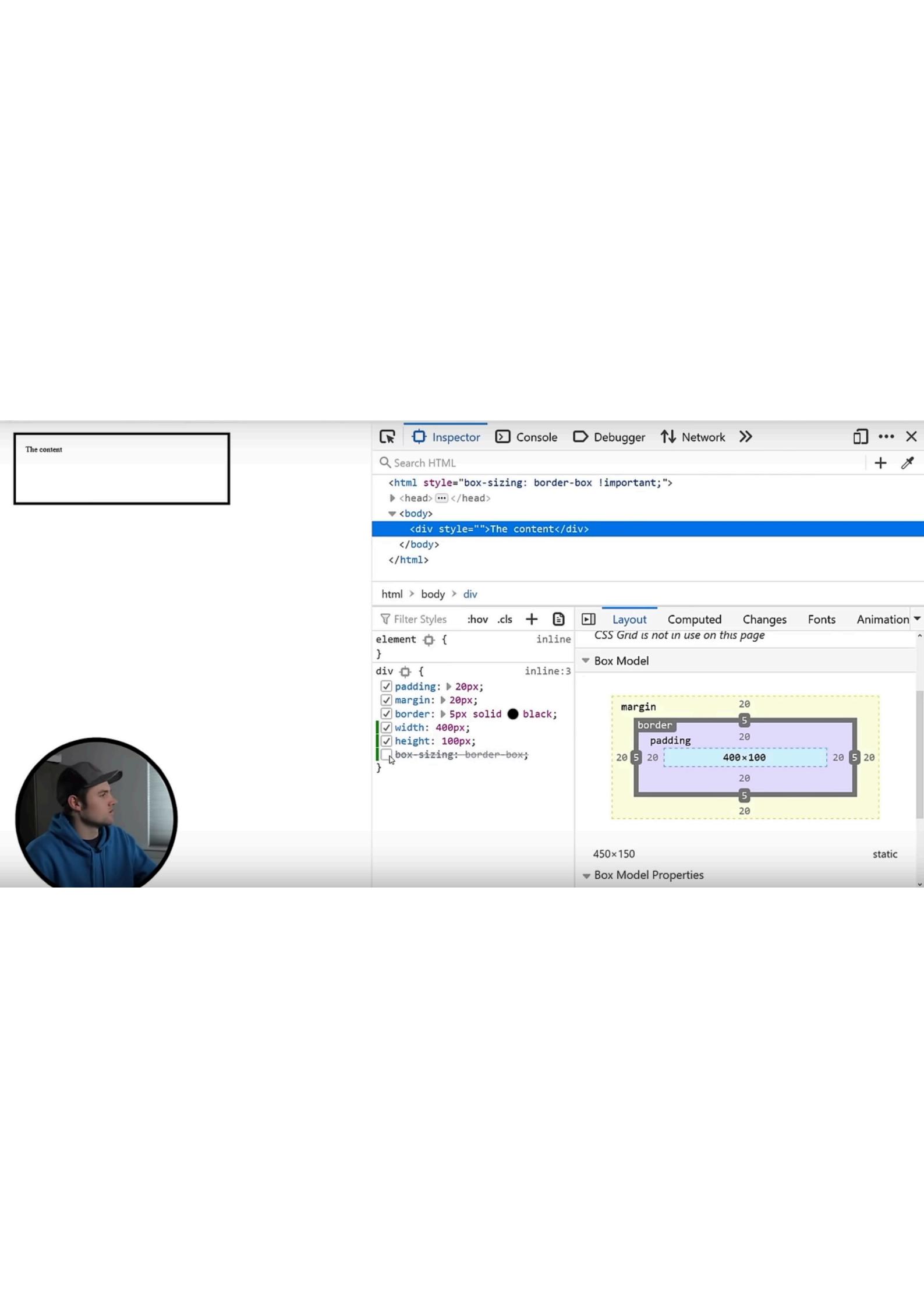
CSS Grid is not in use on this page

Box Model

margin 20
border 5
padding 20
width 350px
height 50px
box-sizing border-box

400x100 static

Box Model Properties



 Content vs. Border Box 

Zach

  Save  Settings  Change View  

 HTML

```
1 <button onclick="togglePadding1()">Toggle padding</button>
2 <div class="parent">
3   <div class="child">Child (content-box)</div>
4 </div>
5 <hr>
6 <button onclick="togglePadding2()">Toggle padding</button>
7 <div class="parent-2">
8   <div class="child-2">Child (border-box)</div>
9 </div>
```



Toggle padding

Child (content-box)

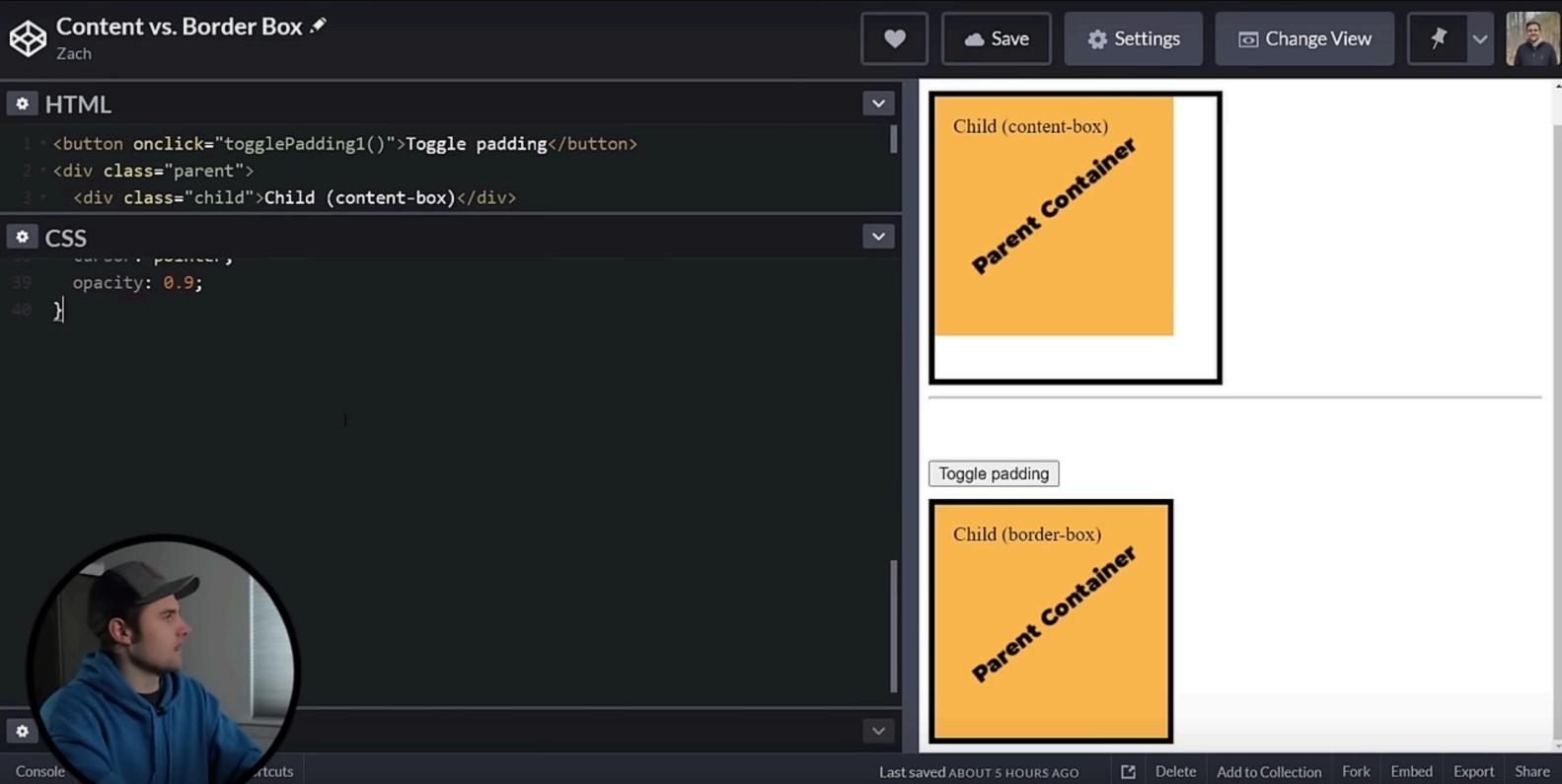
Parent Container

Toggle padding

Child (border-box)

Parent Container

Last saved ABOUT 5 HOURS AGO  Delete Add to Collection Fork Embed Export Share

Content vs. Border Box

Zach

HTML

```
1 <button onclick="togglePadding1()">Toggle padding</button>
2 <div class="parent">
3   <div class="child">Child (content-box)</div>
```

CSS

```
1 .parent {
2   padding: 10px;
3   background-color: yellow;
4   opacity: 0.9;
5 }
```

Child (content-box)

Parent Container

Toggle padding

Child (border-box)

Parent Container

Last saved ABOUT 5 HOURS AGO

Delete Add to Collection Fork Embed Export Share

A screenshot of a web development environment, likely CodePen, demonstrating content vs. border box padding. The interface includes a header with a logo, user name, and various buttons. On the left, there are tabs for HTML and CSS, and a sidebar featuring a circular profile picture of a man in a blue hoodie and cap. The main area shows two code snippets and their corresponding visual outputs. The top snippet creates a 'parent' div with a child div inside, both styled with yellow backgrounds and 10px padding. The bottom snippet creates a similar structure but uses 'border-box' padding instead of 'content-box'. A 'Toggle padding' button is present between the two examples. The visual outputs show the difference in how padding is applied to the child element relative to the parent's border.

Box Model Review

1. The Box Model describes how much "space" an HTML element occupies on a webpage
2. This "space" is heavily influenced by the box-sizing property
3. The "space" and layout is heavily influenced by the display property
4. The most important components of the Box Model are height, width, padding, border, and margin
5. All other CSS properties are supplementary to this Box Model concept



z-index: 3

z-index: 2

z-index: 1

z-index: 0

CSS Measurement Units

1. Pixels
2. em
3. rem
4. Percentages

Systematic Way to Write CSS + HTML

1. How do I want to arrange these HTML elements on the page?
2. How does this arrangement look in the form of HTML?
3. How can I use CSS to achieve the layout I have imagined?
4. How should each element be styled?

How to share web-development projects using GitHub-pages

We have to add html, head (in the web browser title appears as the tab's name), and body sections since codepen added this things automatically for us in its environment.

Important ! the html file we create muse be names “index.html”.
gh-pages branch (created later) will look for it when deploying.

pricing-card-frontend-mentor-challenge / index.html in main Cancel Changes

<> Edit new file Preview Spaces 2 No wrap

```
1 <html>
2   <head>
3     <title>Pricing Card</title> I
4   </head>
5   <body>
6     <div id="card">
7       <div id="top-section">
8         <h2>Join our community</h2>
9         <h4>30-day, hassle-free money back guarantee</h4>
10        <p>Gain access to our full library of tutorials along with expert code reviews. Perfect for any developers who are serious about honing their skills.</p>
11      </div>
12      <div id="bottom-section">
13        <div id="bottom-left-section">
14          <h4>Monthly Subscription</h4>
15          <div id="price-container">
16            <div id="price">$29</div>
17            <div id="price-frequency">per month</div>
18          </div>
19          <p>Full access for less than $1 a day</p>
20          <button onclick="alertUser()">Sign Up</button>
21        </div><div id="bottom-right-section">
22          <h4>Why Us</h4>
23          <ul>
24            <li>Tutorials by industry experts</li>
25            <li>Peer & expert code review</li>
26            <li>Coding exercises</li>
27          </ul>
28        </div>
29      </div>
30    </body>
31  </html>
```



Pricing Card Code Challenge #fullstackroadmap

Zach

Join our community

30-day, hassle-free money back guarantee

Gain access to our full library of courses. Perfect for any developers who are looking to level up their skills.

Monthly Subscription

\$29 per month

Full access for less than \$1 a day

Sign Up

Pen Settings

HTML Preprocessor

Add Class(es) to <html>

e.g. single post post-1234

Stuff for <head>

```
<link href="https://fonts.googleapis.com/css?family=Karla:wght@400,700&display=swap" rel="stylesheet">
```

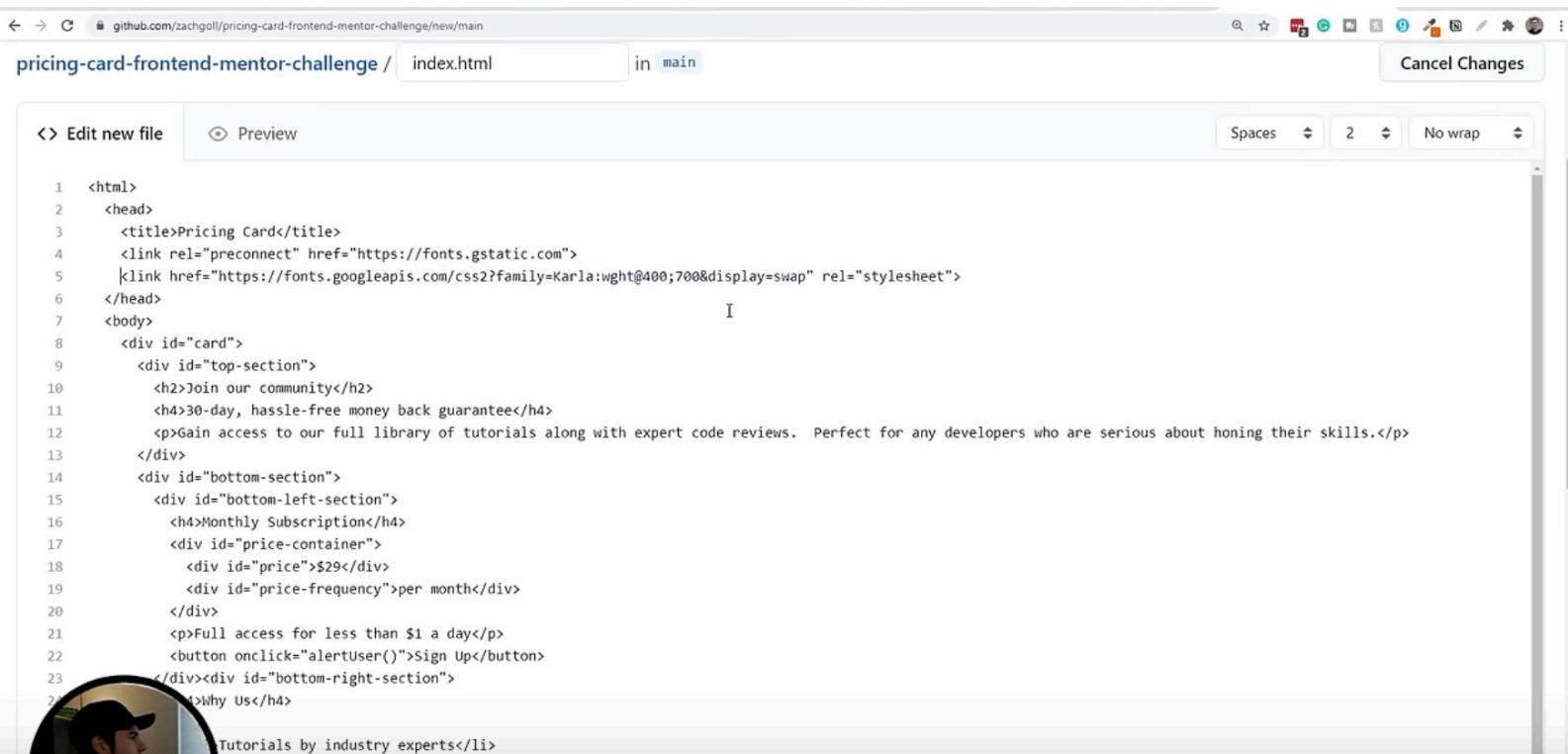
↑ Insert the most common viewport meta tag

Upgrade to PRO and unlock Privacy, Custom Thumbnails, Asset Hosting, and more.

Save & Close

codepen.io/zg_dev/pen/yLvpLPY?editors=1010

In the head we also add the links to fonts and styles we've used.

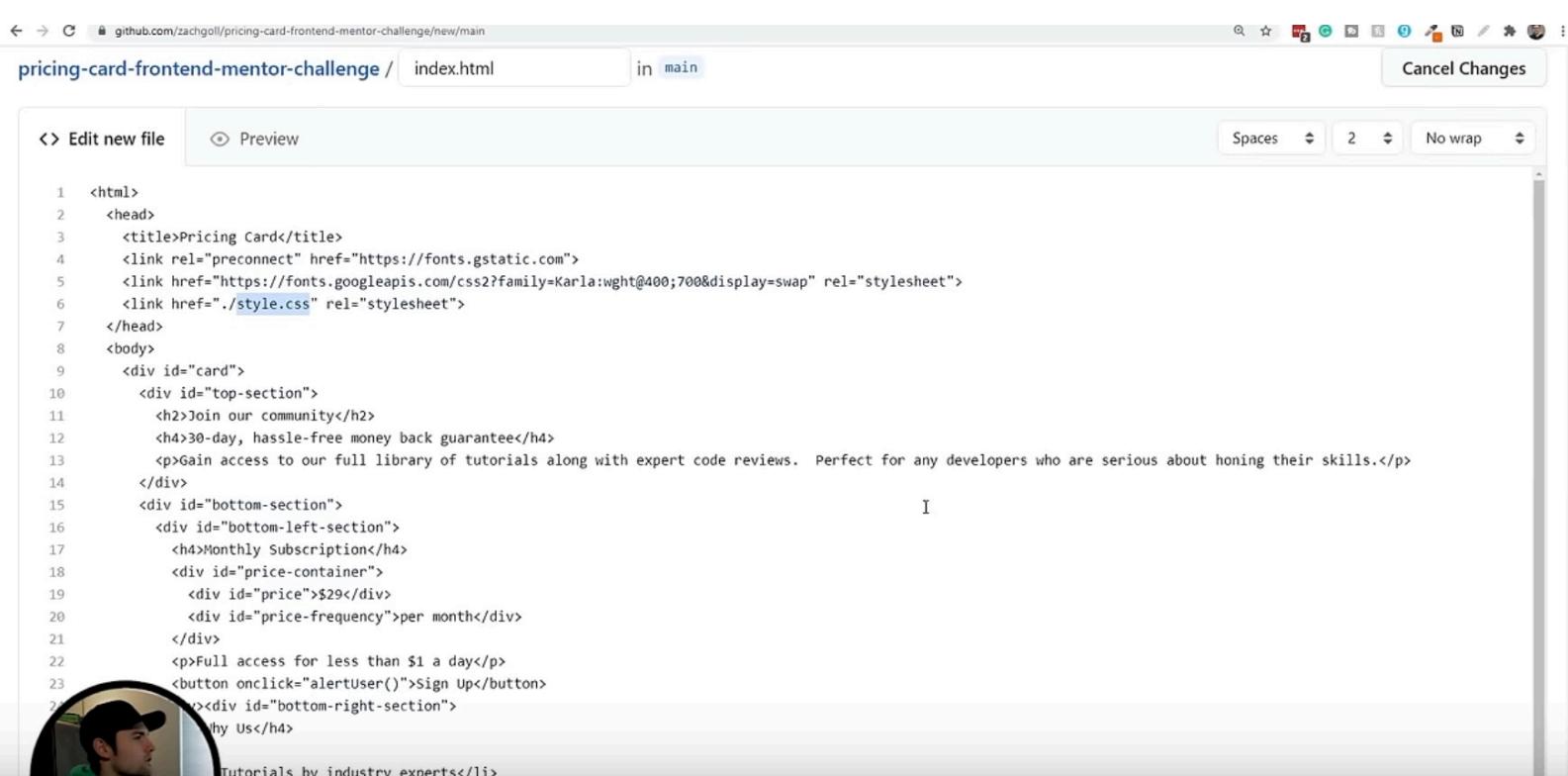


The screenshot shows a code editor interface with the following details:

- Address Bar:** Shows the URL `github.com/zachgoll/pricing-card-frontend-mentor-challenge/new/main`.
- Title Bar:** Displays "pricing-card-frontend-mentor-challenge / index.html in main".
- Toolbar:** Includes standard browser icons like back, forward, search, and refresh, along with a "Cancel Changes" button.
- Code View:** Shows the HTML code for the pricing card. The code includes a title, a link to a preconnect font, and two sections: "top-section" and "bottom-section". The "bottom-section" contains a price of \$29 per month and a "Sign Up" button. A small profile picture of a person is visible on the left side of the code area.
- Code Editor Tools:** Includes "Edit new file", "Preview", "Spaces", "2", "No wrap", and a "Cancel Changes" button.

```
1 <html>
2   <head>
3     <title>Pricing Card</title>
4     <link rel="preconnect" href="https://fonts.gstatic.com">
5     <link href="https://fonts.googleapis.com/css2?family=Karla:wght@400;700&display=swap" rel="stylesheet">
6   </head>
7   <body>
8     <div id="card">
9       <div id="top-section">
10         <h2>Join our community</h2>
11         <h4>30-day, hassle-free money back guarantee</h4>
12         <p>Gain access to our full library of tutorials along with expert code reviews. Perfect for any developers who are serious about honing their skills.</p>
13     </div>
14     <div id="bottom-section">
15       <div id="bottom-left-section">
16         <h4>Monthly Subscription</h4>
17         <div id="price-container">
18           <div id="price">$29</div>
19           <div id="price-frequency">per month</div>
20         </div>
21         <p>Full access for less than $1 a day</p>
22         <button onclick="alertUser()">Sign Up</button>
23     </div><div id="bottom-right-section">
24       <h4>Why Us</h4>
25       <ul>
26         <li>Tutorials by industry experts</li>
```

In the head we also add the reference to the css file which we will add to the repository with the name “style.css”



The screenshot shows a GitHub code editor interface for a file named index.html. The URL in the address bar is github.com/zachgoll/pricing-card-frontend-mentor-challenge/new/main. The file content is as follows:

```
1 <html>
2   <head>
3     <title>Pricing Card</title>
4     <link rel="preconnect" href="https://fonts.gstatic.com">
5     <link href="https://fonts.googleapis.com/css2?family=Karla:wght@400;700&display=swap" rel="stylesheet">
6     <link href=".//style.css" rel="stylesheet">
7   </head>
8   <body>
9     <div id="card">
10       <div id="top-section">
11         <h2>Join our community</h2>
12         <h4>30-day, hassle-free money back guarantee</h4>
13         <p>Gain access to our full library of tutorials along with expert code reviews. Perfect for any developers who are serious about honing their skills.</p>
14       </div>
15       <div id="bottom-section">
16         <div id="bottom-left-section">
17           <h4>Monthly Subscription</h4>
18           <div id="price-container">
19             <div id="price">$29</div>
20             <div id="price-frequency">per month</div>
21           </div>
22           <p>Full access for less than $1 a day</p>
23           <button onclick="alertUser()">Sign Up</button>
24         </div>
25         <div id="bottom-right-section">
26           <h4>Why Us</h4>
27           <ul>
28             <li>Tutorials by industry experts</li>
```

The line `<link href=".//style.css" rel="stylesheet">` is highlighted in blue, indicating it is selected or being edited. The GitHub interface includes standard code editor features like syntax highlighting, line numbers, and a preview tab.

github.com/zachgoll/pricing-card-frontend-mentor-challenge/new/main

Search or jump to... Pull requests Issues Marketplace Explore

zachgoll / pricing-card-frontend-mentor-challenge

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

pricing-card-frontend-mentor-challenge / style.css in main Cancel Changes

Edit new file Preview Spaces 2 No wrap

1

Cancel Changes

Last in the body we add a script section where we reference the JS file which we will add to the repository with the name “index.js”

The screenshot shows a GitHub commit interface. At the top, there is a code editor window displaying the following HTML code:

```
21      </div>
22      <p>Full access for less than $1 a day</p>
23      <button onclick="alertUser()">Sign Up</button>
24    </div><div id="bottom-right-section">
25      <h4>Why Us</h4>
26      <ul>
27        <li>Tutorials by industry experts</li>
28        <li>Peer & expert code review</li>
29        <li>Coding exercises</li>
30        <li>Access to our GitHub repos</li>
31        <li>Community forum</li>
32        <li>Flashcard decks</li>
33        <li>New videos every week</li>
34      </ul>
35    </div>
36  </div>
37  </div>
38  <script src=".//index.js"></script>
39  </body>
40</html>
```

Line 41 contains a cursor icon.

Below the code editor is a "Commit changes" form. It includes fields for the commit message ("Update index.html"), an optional extended description, the author's email address ("zach.gollwitzer@gmail.com"), and a dropdown menu for selecting the email address to associate with the commit. At the bottom, there is a radio button for committing directly to the "main" branch.

github.com/zachgoll/pricing-card-frontend-mentor-challenge/new/main

Search or jump to... Pull requests Issues Marketplace Explore

zachgoll / pricing-card-frontend-mentor-challenge

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Unwatch 1 Star 0 Fork 0

pricing-card-frontend-mentor-challenge / index.js in main Cancel Changes

Edit new file Preview Spaces 2 No wrap

```
1 function alertUser() {
2   alert('Hey, you clicked the button!');
3 }
```



Now we add a gh-pages branch to the main repository

The screenshot shows a GitHub repository page for `zachgoll / pricing-card-frontend-mentor-challenge`. The main branch is `main`, which has 1 branch and 0 tags. The repository has 5 commits. The README.md file contains the following content:

```
pricing-card-frontend-mentor-challenge
An implementation of the frontend mentor code challenge
```

The Languages section shows a breakdown of the code: CSS at 52.5% and HTML at 47.5%.

github.com/zachgoll/pricing-card-frontend-mentor-challenge/tree/main

Search or jump to... Pull requests Issues Marketplace Explore

zachgoll / pricing-card-frontend-mentor-challenge

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Switch branches/tags

gh-pages

Branches Tags

Create branch: gh-pages from 'main'

View all branches

Go to file Add file Code

Initial commit 07c102c now 5 commits

Update index.html 24 seconds ago

Create index.js now

Create style.css 2 minutes ago

About

An implementation of the frontend mentor code challenge

Readme

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

CSS 52.5% HTML 47.5%

README.md

pricing-card-frontend-mentor-challenge

An implementation of the frontend mentor code challenge



github.com/zachgoll/pricing-card-frontend-mentor-challenge/tree/gh-pages

gh-pages 2 branches 0 tags

Go to file Add file Code ABOUT

zachgoll Create index.js ✓ 07c102c 2 minutes ago 5 commits

README.md Initial commit 9 minutes ago

index.html Update index.html 2 minutes ago

index.js Create index.js 2 minutes ago

style.css Create style.css 3 minutes ago

Releases
No releases published
Create a new release

Packages
No packages published
Publish your first package

Environments 1
github-pages Active

Languages

CSS 51.4% HTML 46.5%
JavaScript 2.1%

A screenshot of a GitHub repository page for 'pricing-card-frontend-mentor-challenge'. The page shows a list of files and their commits, a 'Releases' section, a 'Packages' section, and a 'Languages' chart. A large black oval highlights the 'Environments' section, which contains a single entry for 'github-pages' marked as 'Active'. The Languages chart at the bottom shows CSS at 51.4%, HTML at 46.5%, and JavaScript at 2.1%.

Now we can finally view our project via “view deployment”

Essentially, the gh-pages branch we look for the index.html file and will deploy it for us.

The screenshot shows a web browser displaying a GitHub repository page. The URL in the address bar is `github.com/zachgoll/pricing-card-frontend-mentor-challenge/deployments/activity_log?environment=github-pages`. The page title is `zachgoll / pricing-card-frontend-mentor-challenge`. The navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. Below the title, there are buttons for Unwatch (1), Star (0), and Fork (0). The main content area is titled "Deployments / Activity log". It shows a single deployment entry for "github-pages" at commit `07c102c`, deployed by "github-pages" 39 seconds ago, and labeled as "Active". A "View deployment" button is next to the deployment entry. At the bottom of the page, there are links for Previous and Next, along with standard GitHub footer links: © 2021 GitHub, Inc., Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About. A small circular profile picture of a person is visible on the left side.