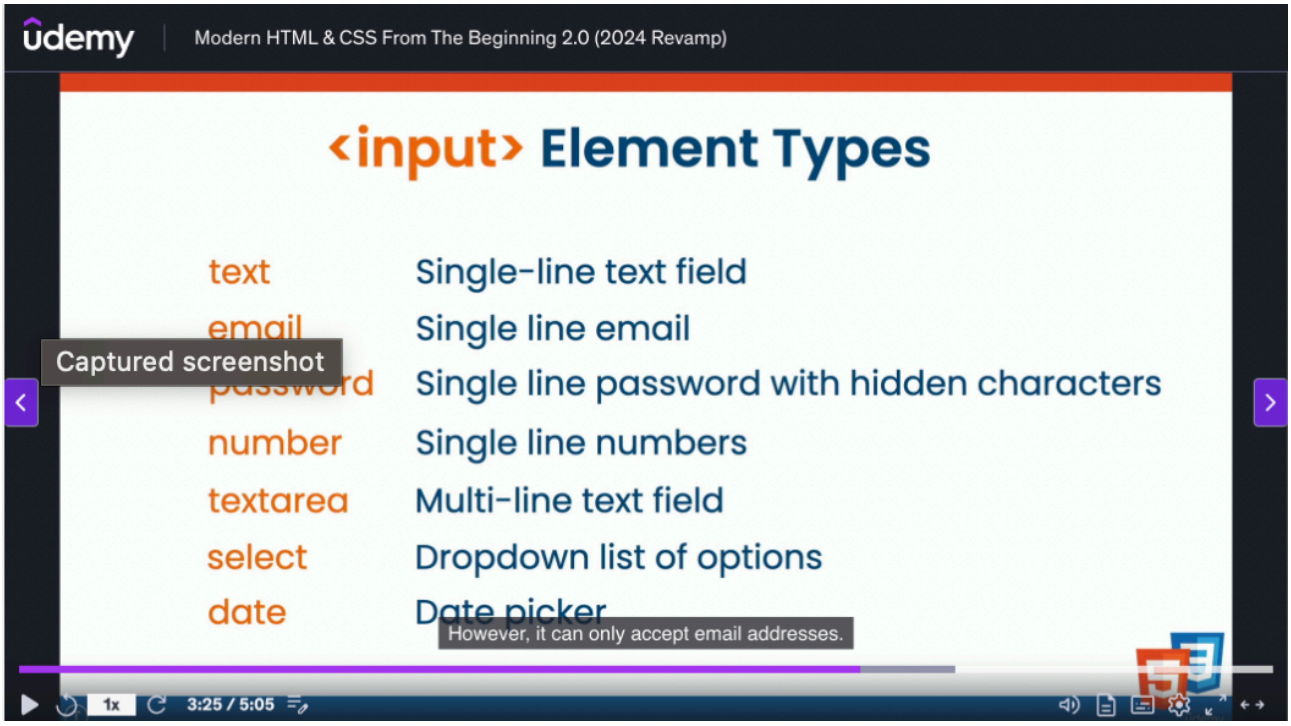
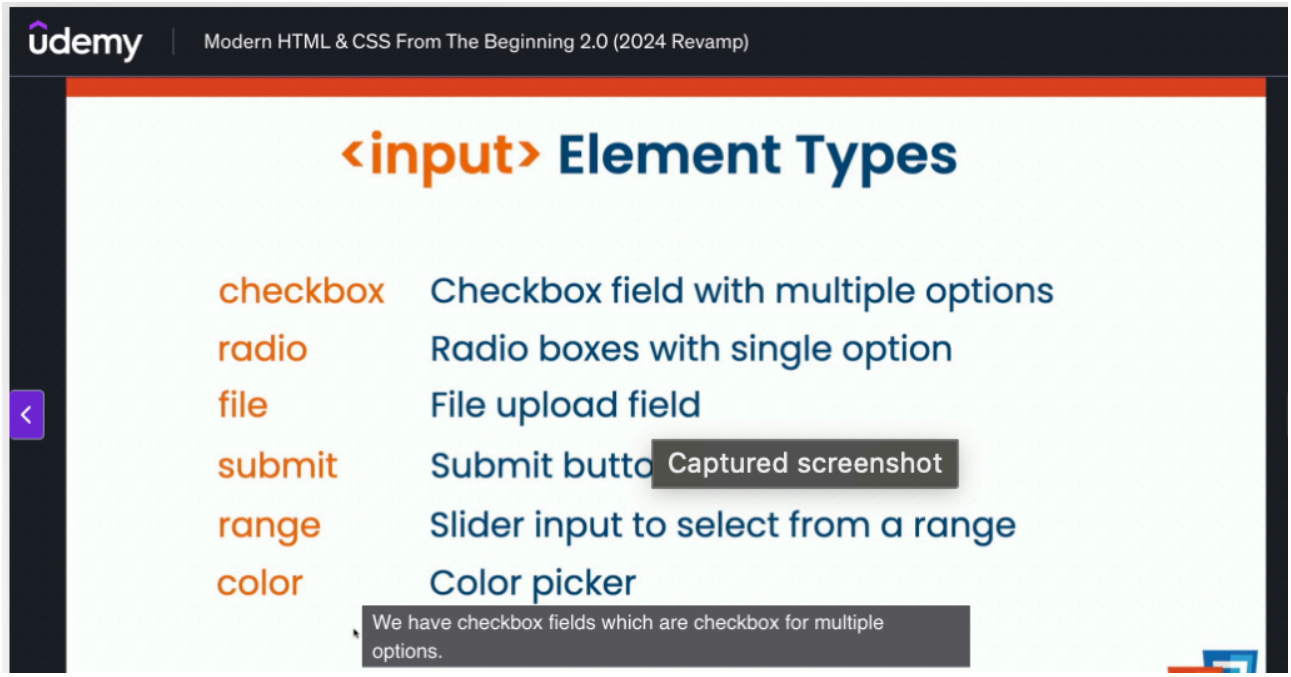
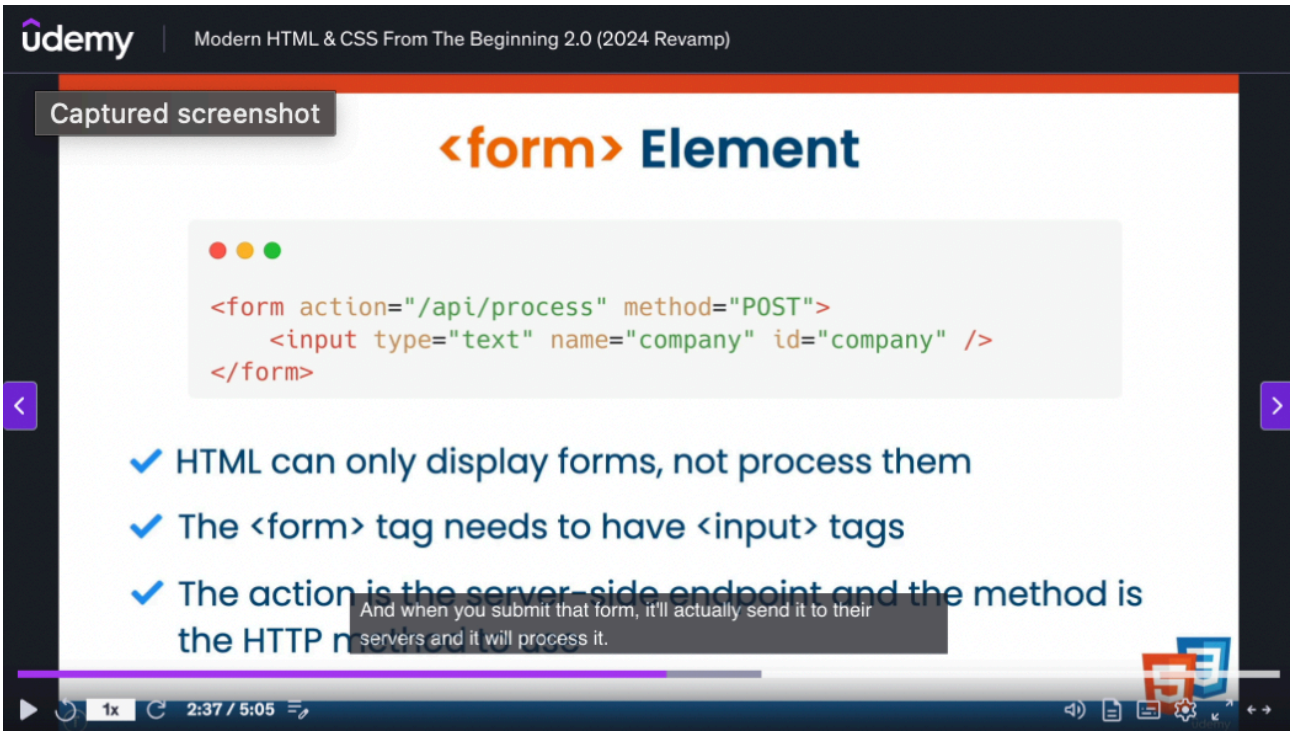
16/04/2025 - Forms and Input Fields

Types of input elements:





form element:



Form tag attributes :

```
<form>
        <div>
            <label for="name">Name</label>
            <input
            type="text" / “password”/ “email”
            id="name"
            placeholder="Enter Name"
            values = “Jascar”
            name="name"
            required
            minlength="3"
            maxlength=“25">
            disabled
        </div>
```

Dropdown :

Select attribute :
Sample code :

```
 <form>
        <label for="product">Select the Product</label>
        <br>
        <select name="product" id="product" multiple size= "2">
          <option value="iphone">iphone</option>
          <option value="ipad">ipad</option>
          <option value="Macbook">Macbook</option>
          <option value="macbook-air">Macbook-Air</option>
          <option value="iwatch">iwatch</option>
          <option value="airpods">airpods</option>
        </select>
        <br>
        <br>
        <input type="submit" value="Submit">
      </form>
```

17/04/2025
Multimedia Tags & Tables

AUDIO -

```
<audio>
        <source src=“./mp3” type = “audio/mp3” autoplay controls>
</audio>
```

(Or)

```
        <audio src= “./mp3” type= “audio/mp3 autoplay controls>
        </audio>
```

Audio loop -

```
        <audio src= “./mp3” type= “audio/mp3 autoplay controls
                loop>
        </audio>
```

VIDEO -

```
 <video height="220" width="300" src="./8820216-
uhd_3840_2160_25fps.mp4 "type="video/mp4" controls ></video>
```

(Or)

VIDEO with figure -

```
<figure>
        <video src=“src="./8820216-uhd_3840_2160_25fps.mp4
        "type="video/mp4" controls ></video>

        <figurecaption>Video 1</figurecaption>
</figure>
```

TABLE :

```
<div>
            <table>
               <colgroup>
               <col style="background-color:tomato;">
```

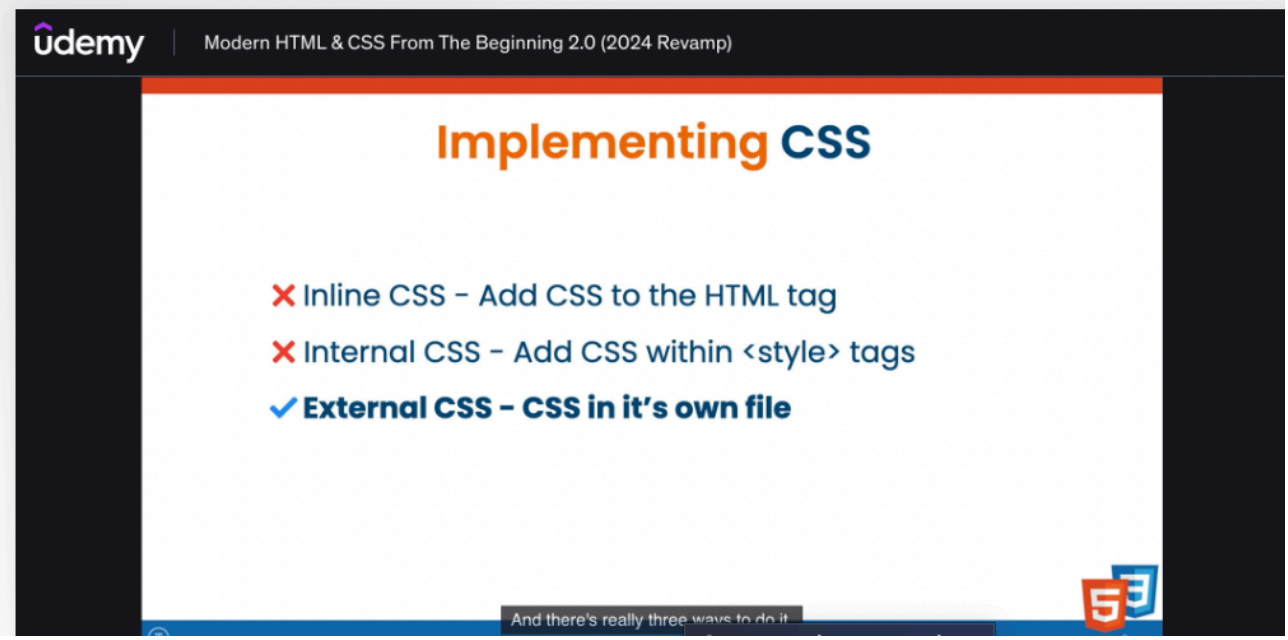
```
            <col style="background-color: burlywood;">
            <col style="background-color: burlywood;">
            </colgroup>

            <thead>

                <tr>

                    <th>Events</th>
                    <th>Date</th>
                    <th>Time </th>

                </tr>

                <tbody>
                    <tr>
                        <td>Campfire</td>
                        <td>17-April 2025</td>
                        <td>6pm IST</td>

                    </tr>

                    <tr>
                        <td>DJ Night</td>
                        <td>19-April-2025</td>
                        <td>8pm IST</td>
                    </tr>
                    <tr>
                        <td>Campfire </td>
                        <td>20-April-2025</td>
                        <td>6pm IST</td>
                    </tr>
                </tbody>
            </thead>
        </table>
    </div>
```

Iframe Element -

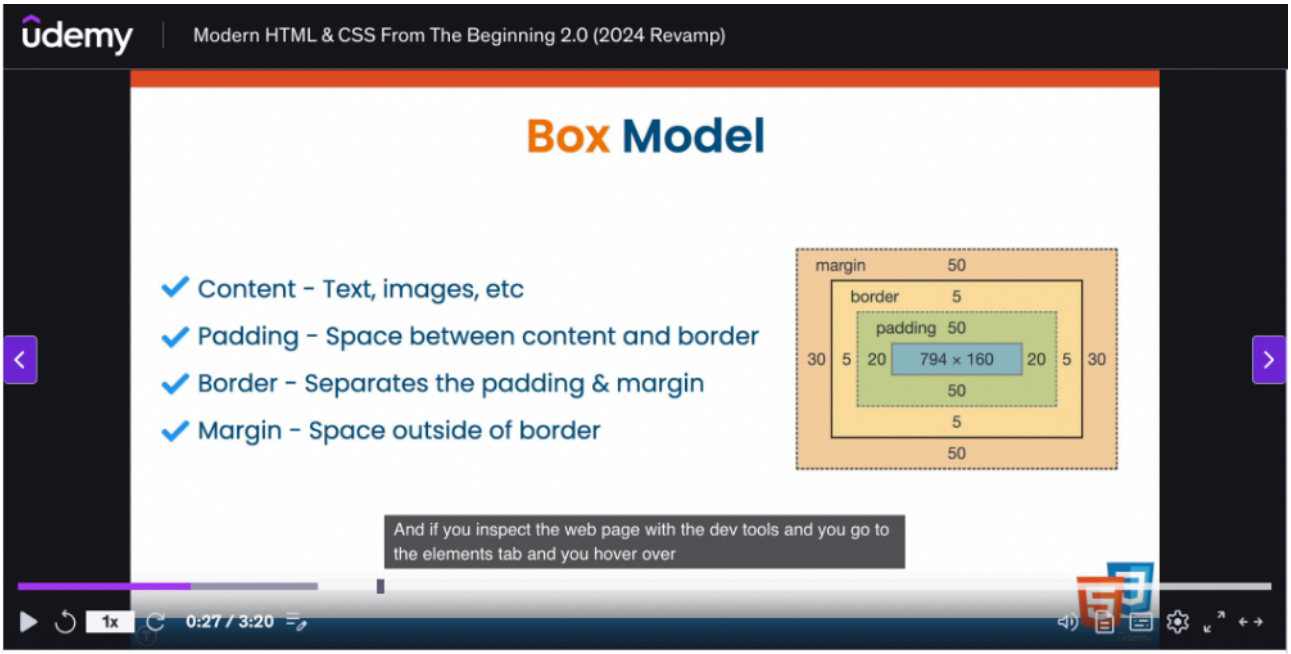
```
        <iframe
        src="https://www.youtube.com/embed/KDlR5KnxEwU?
si=n0BiOtBjO2ibDuGZ"
        frameborder="0"
        width="560" height="315"
        ></iframe>
        <br><br>
        <h4>Location :</h4>

        <iframe
        width="560" height="315"
            src="https://www.google.com/maps/embed?pb=!1m18!
1m12!1m3!1d54955117.16386726!2d-161.5781907699605!
3d35.99350529000485!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!
3m3!1m2!1s0x54eab584e432360b%3A0x1c3bb99243deb742!
2sUnited%20States!5e1!3m2!1sen!2sin!4v1744889996648!5m2!
1sen!2sin" ></iframe>
```

18/04/2025 & 19/04/2025
CSS Selectors

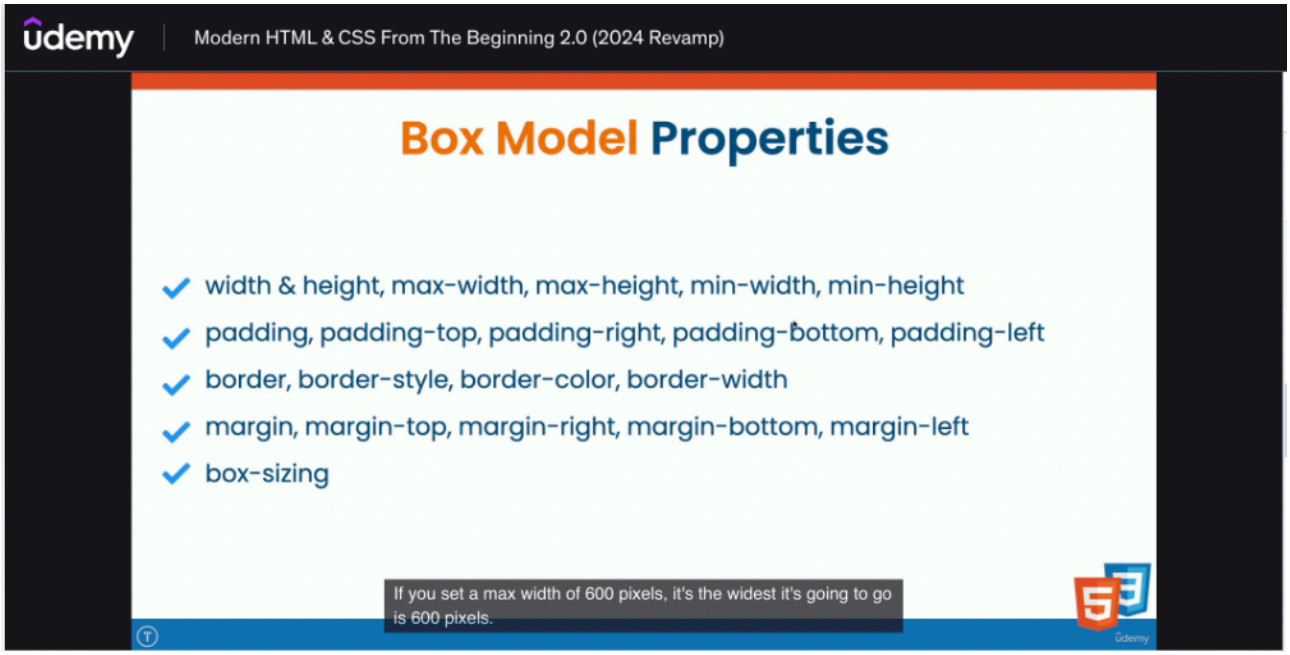
Types of CSS :



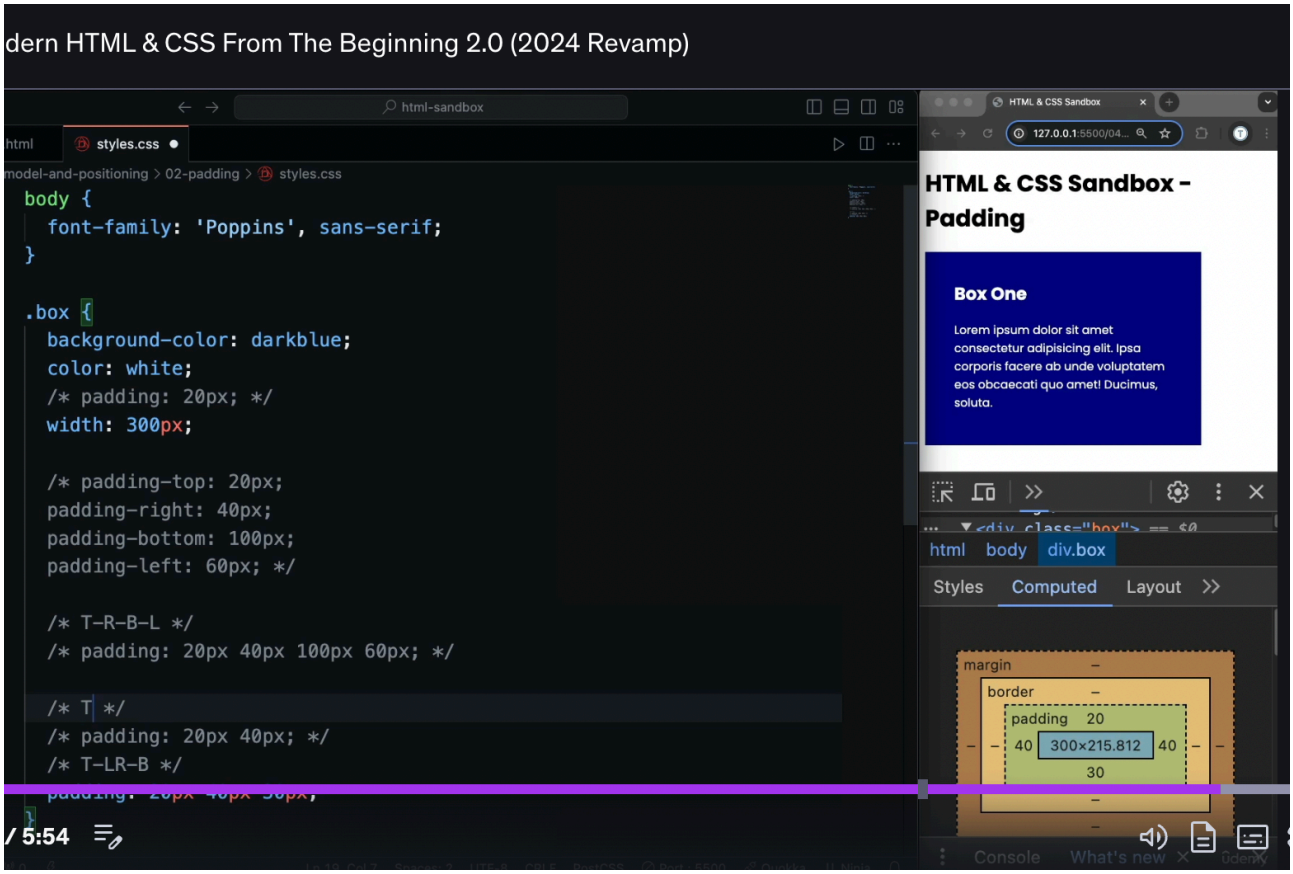
Box Model :



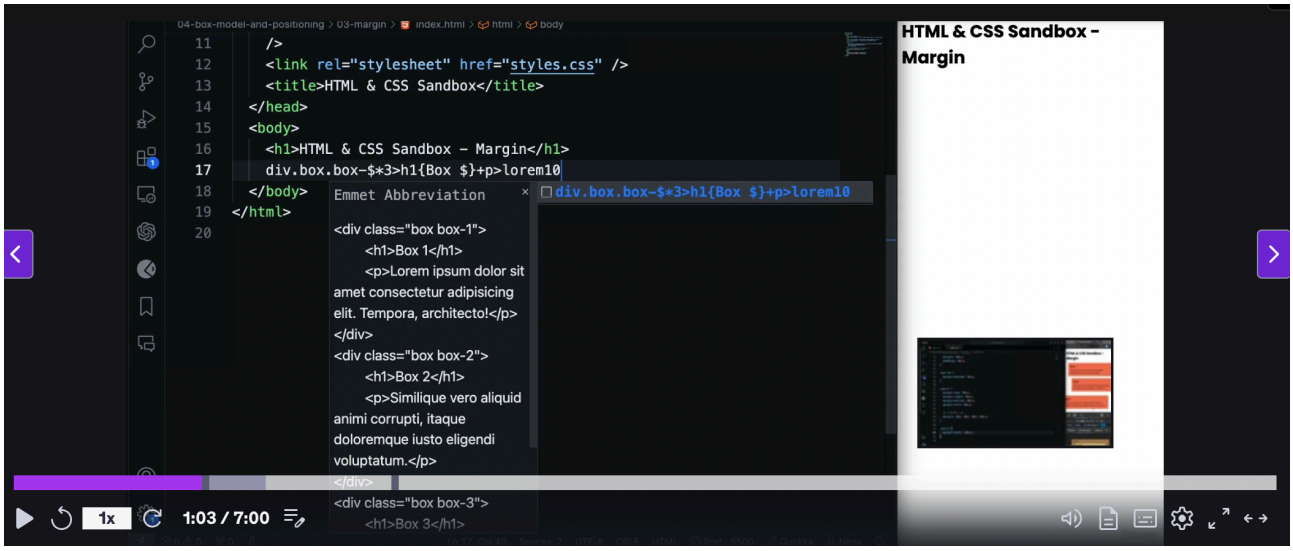
Box model properties :



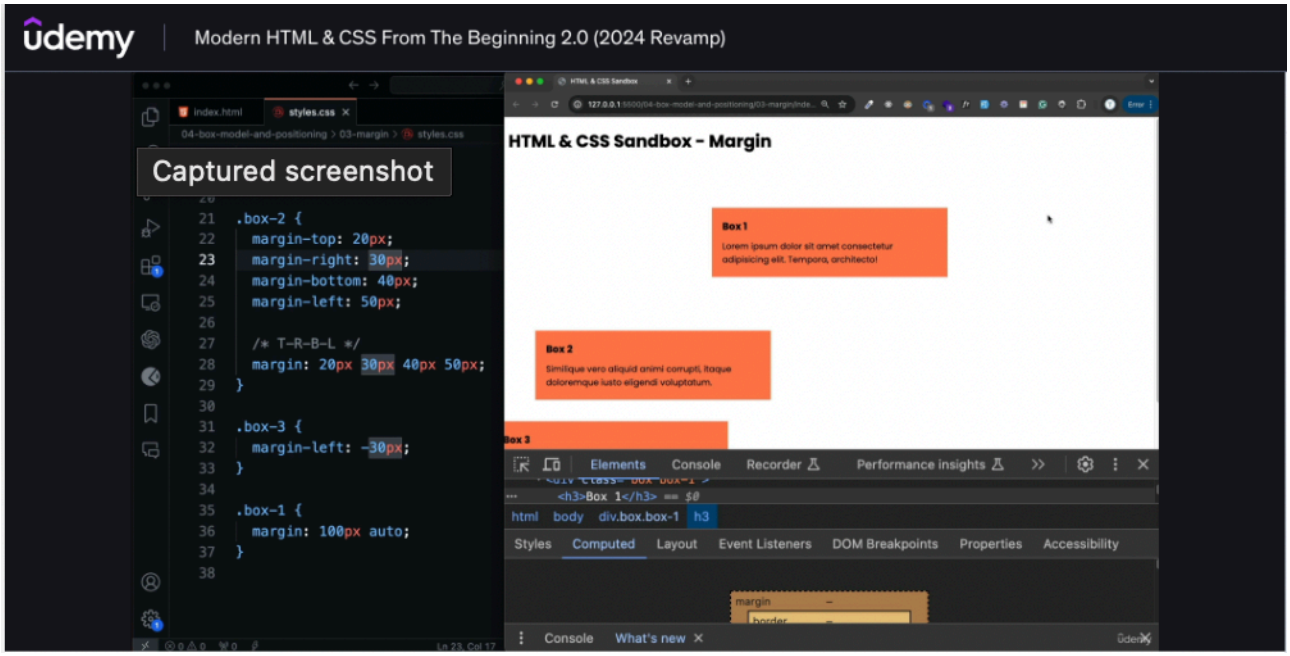
Padding :



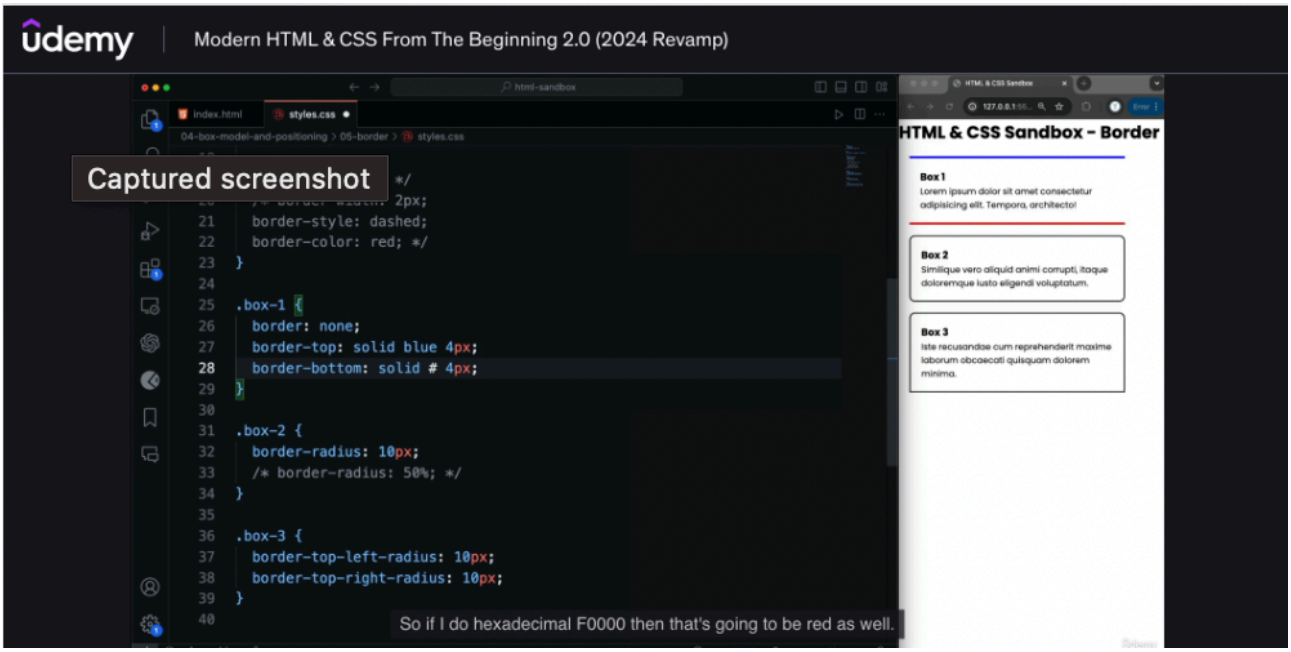
Shortcut to create multiple :



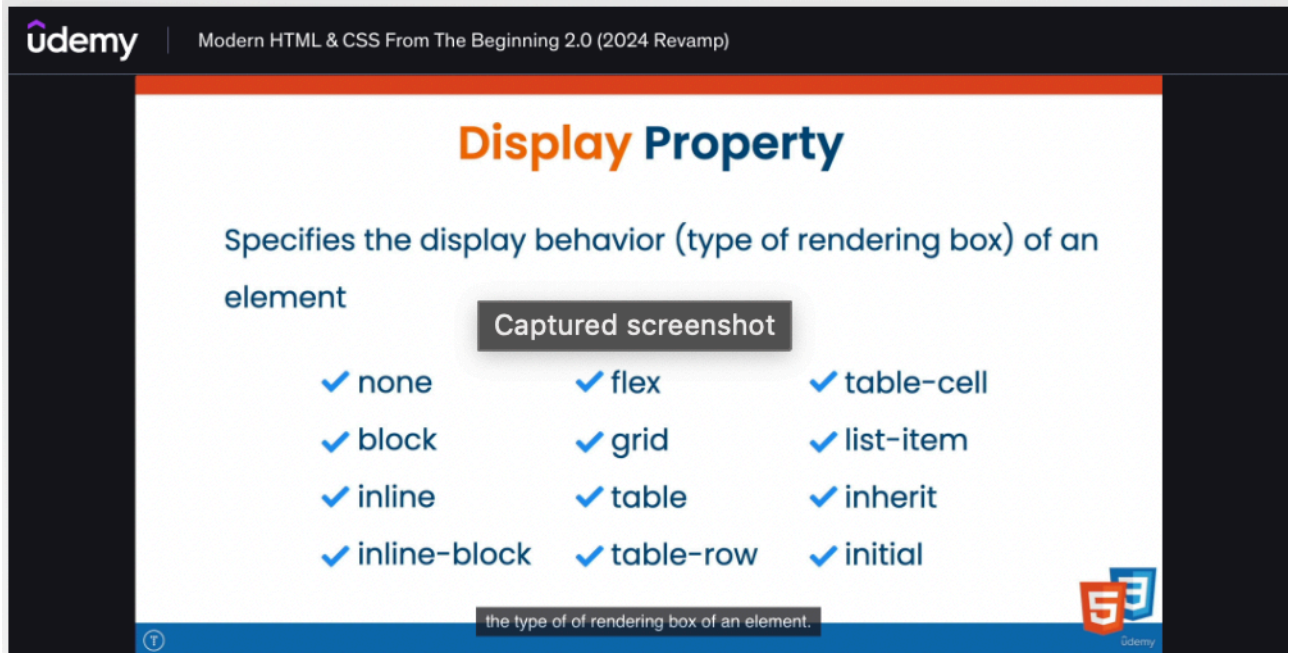
Margin :



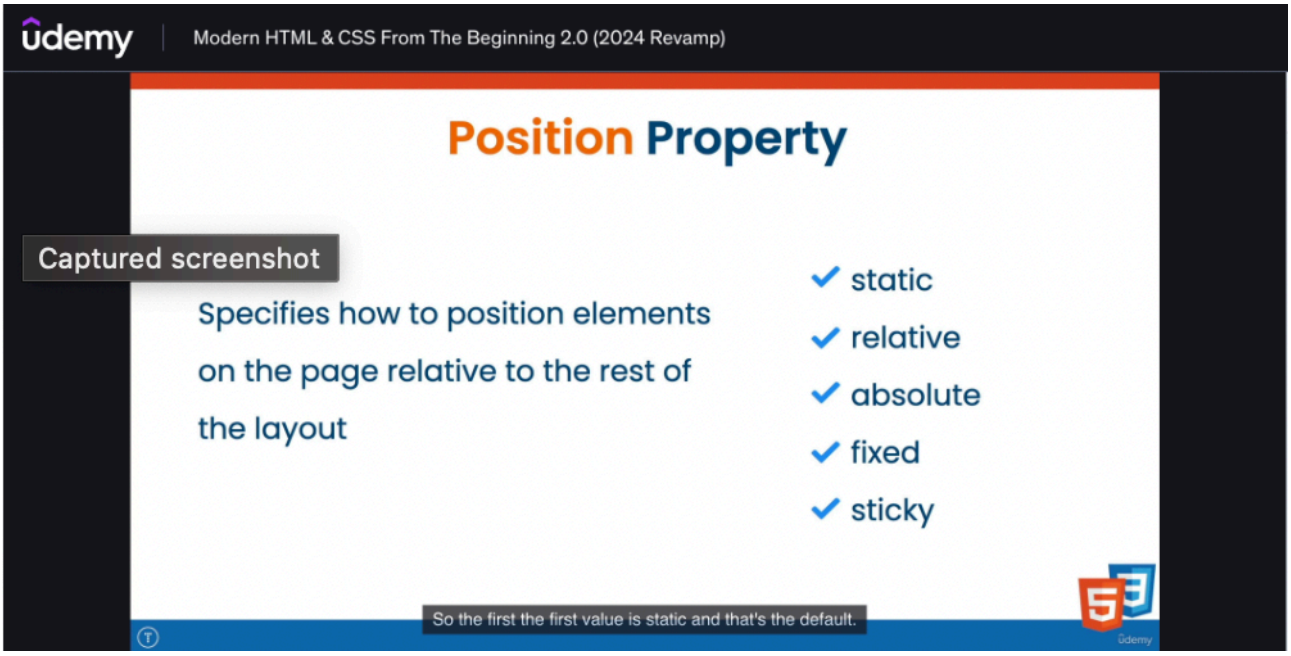
border:

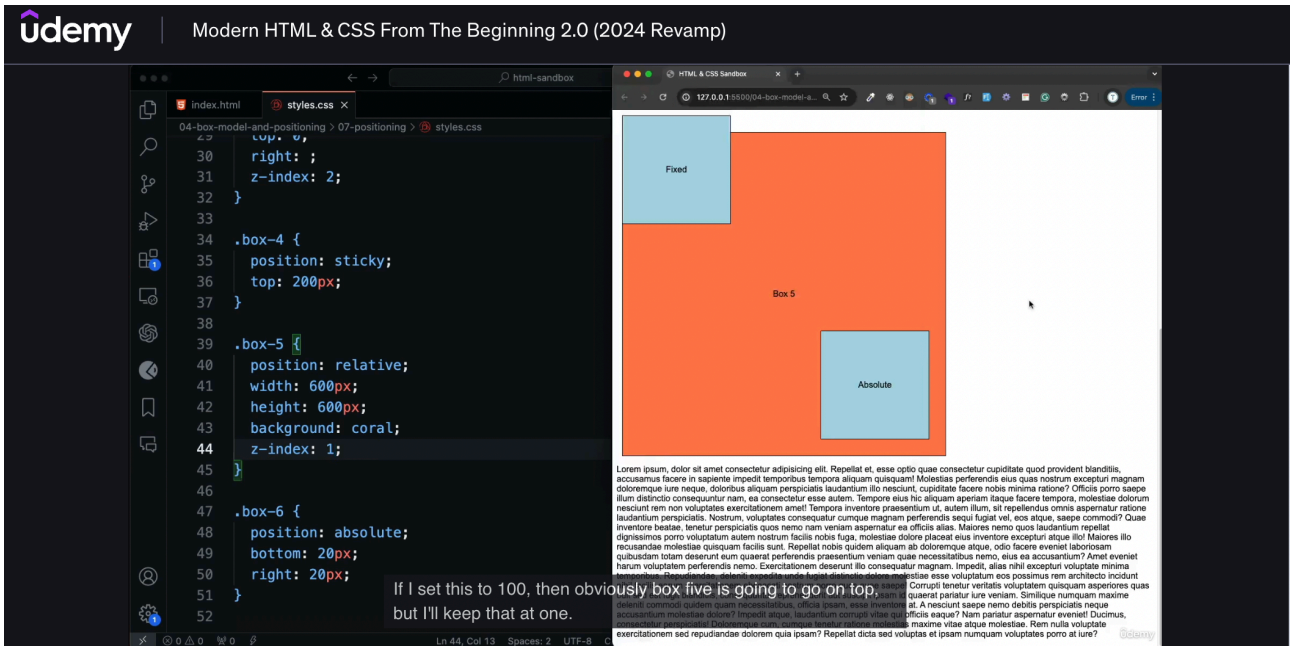


Display Property:

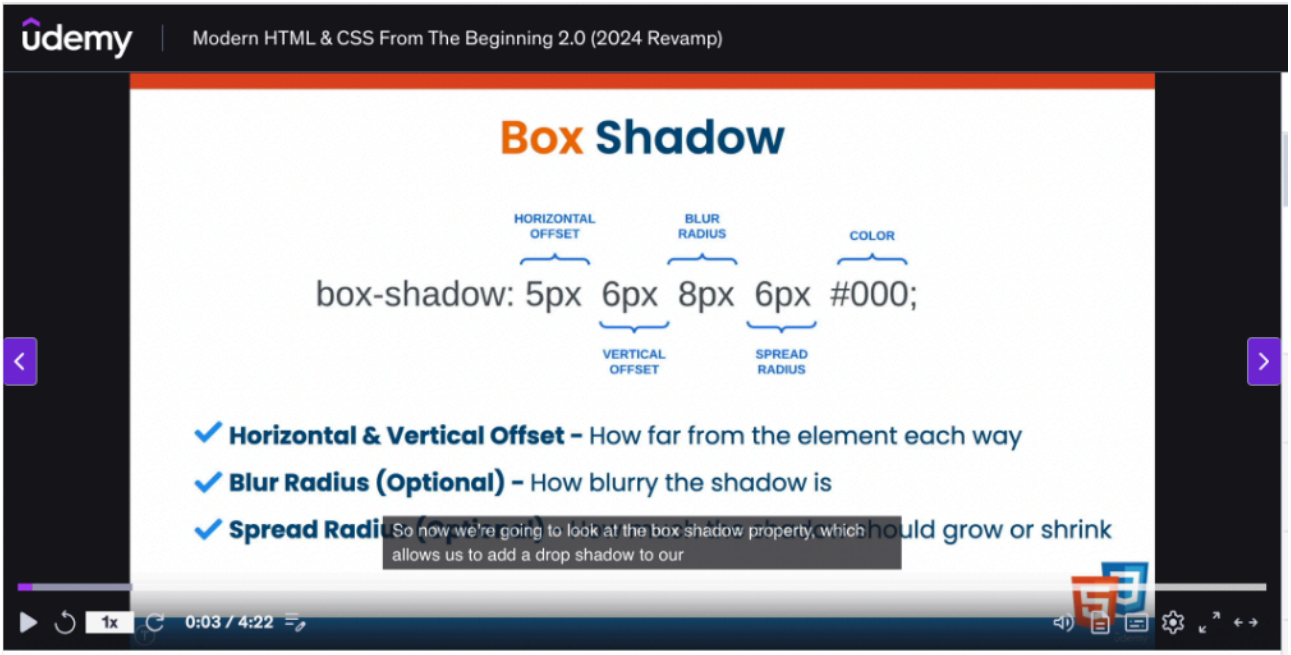


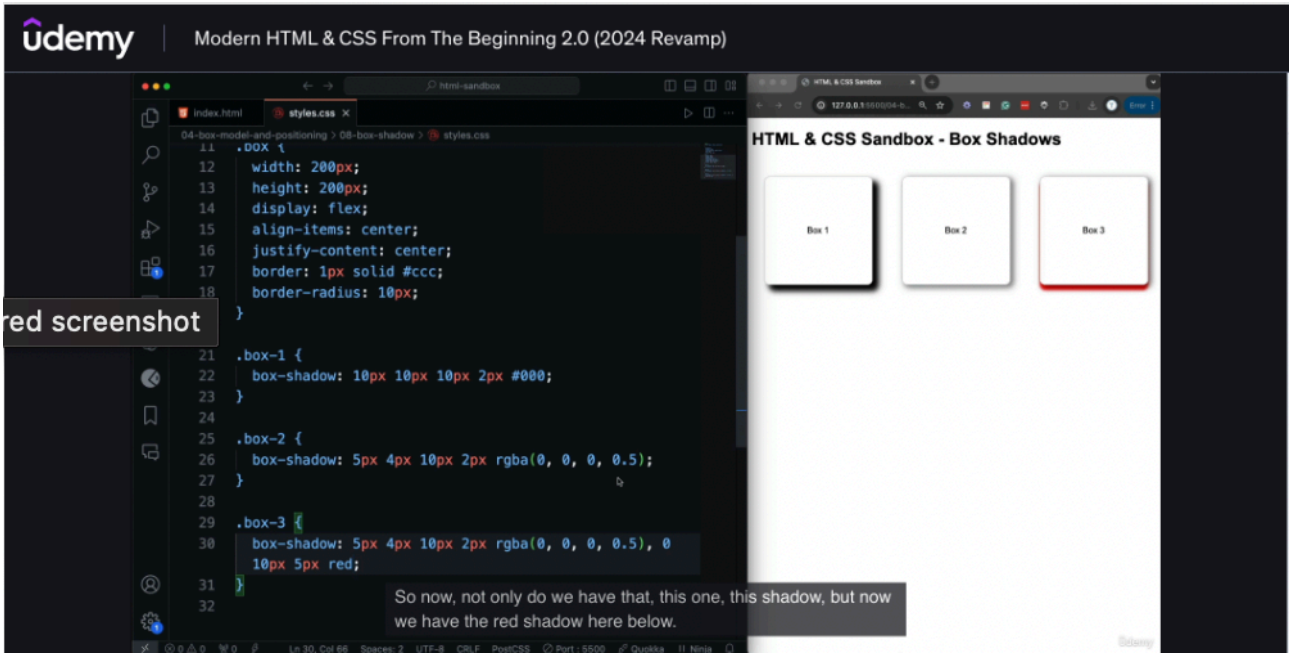
Position Property:





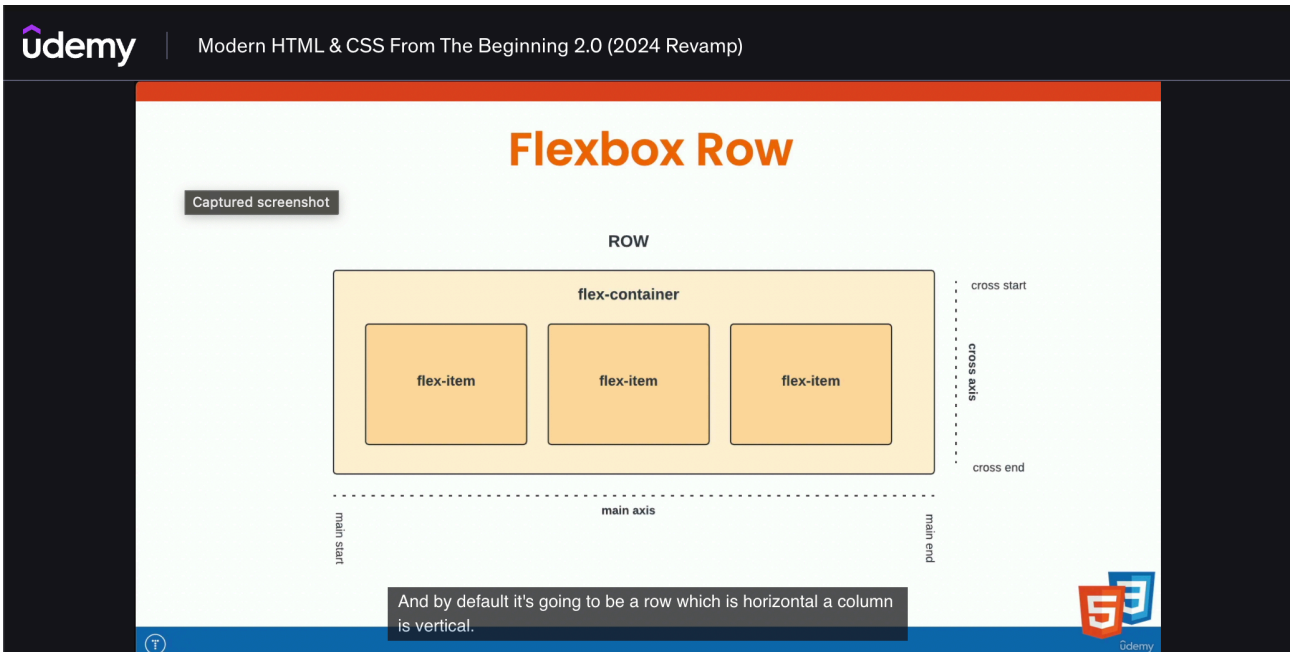
Box Shadow:


udemy
Modern HTML & CSS From The Beginning 2.0 (2024 Revamp)
Box Shadow
HORIZONTAL OFFSET
BLUR RADIUS
COLOR
box-shadow: 5px 6px 8px 6px #000;
VERTICAL OFFSET
SPREAD RADIUS
Horizontal & Vertical Offset - How far from the element each way
Blur Radius (Optional) - How blurry the shadow is
So now we're going to look at the box shadow property, which allows us to add a drop shadow to our
1x
0:03 / 4:22

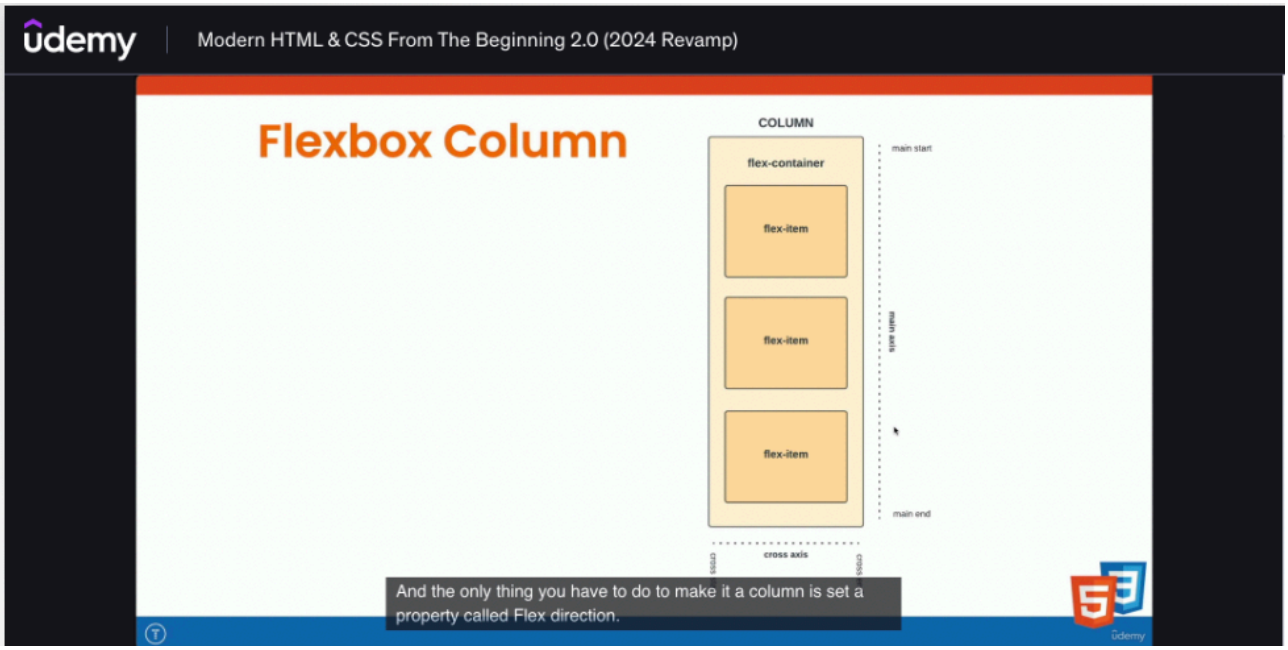

udemy
Modern HTML & CSS From The Beginning 2.0 (2024 Revamp)
.box {
width: 200px;
height: 200px;
display: flex;
align-items: center;
justify-content: center;
border: 1px solid #ccc;
border-radius: 10px;
}
.box-1 {
box-shadow: 10px 10px 10px 2px #000;
}
.box-2 {
box-shadow: 5px 4px 10px 2px rgba(0, 0, 0, 0.5);
}
.box-3 {
box-shadow: 5px 4px 10px 2px rgba(0, 0, 0, 0.5), 0 10px 5px red;
}
HTML & CSS Sandbox - Box Shadows
Box 1
Box 2
Box 3
So now, not only do we have that, this one, this shadow, but now we have the red shadow here below.

23/04/2025
Grid and Flexboxs

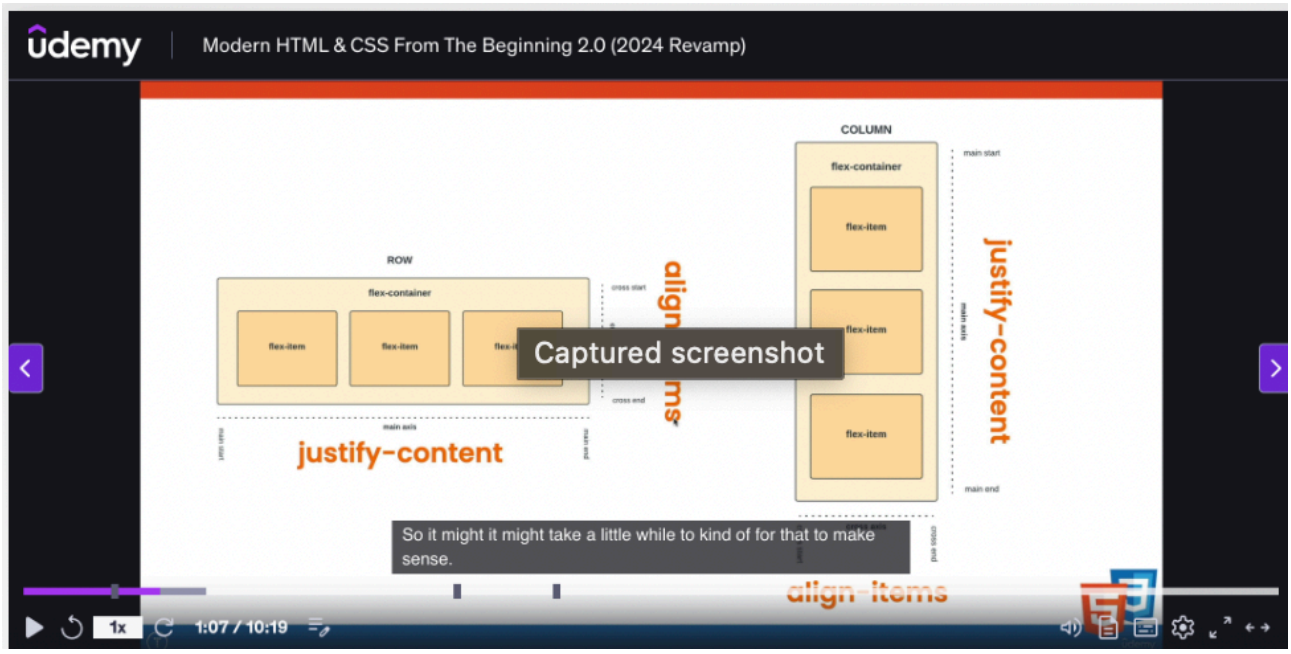
Flexbox Row

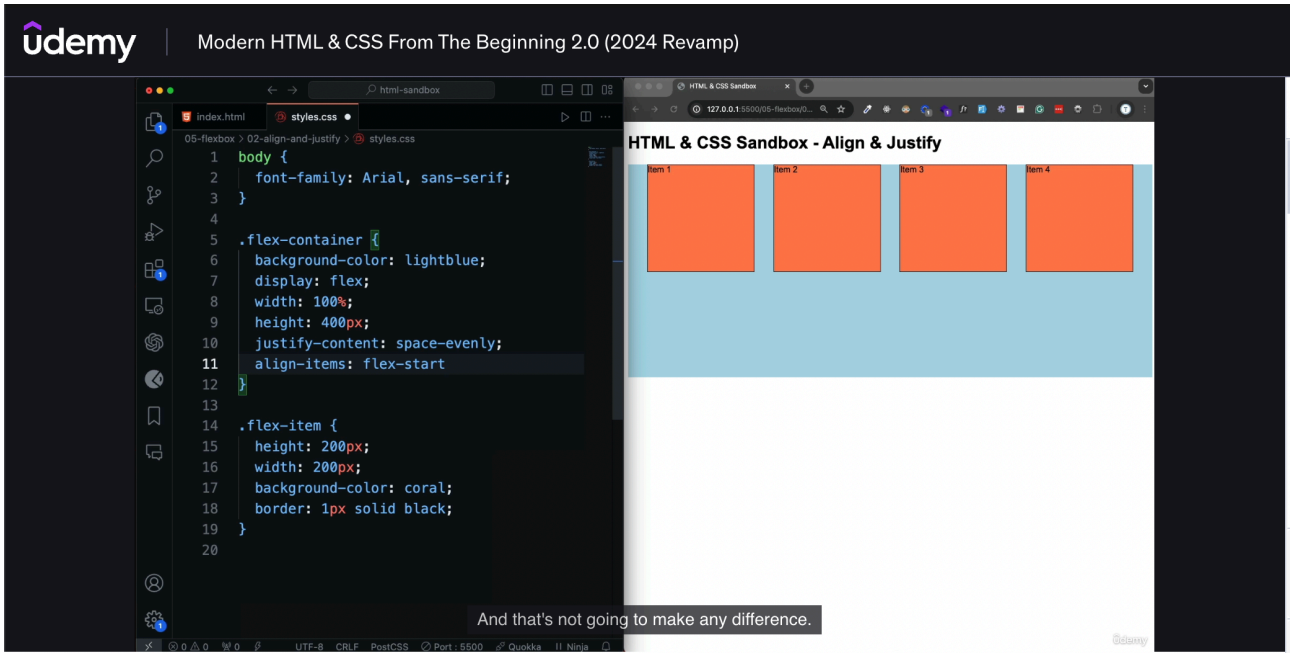


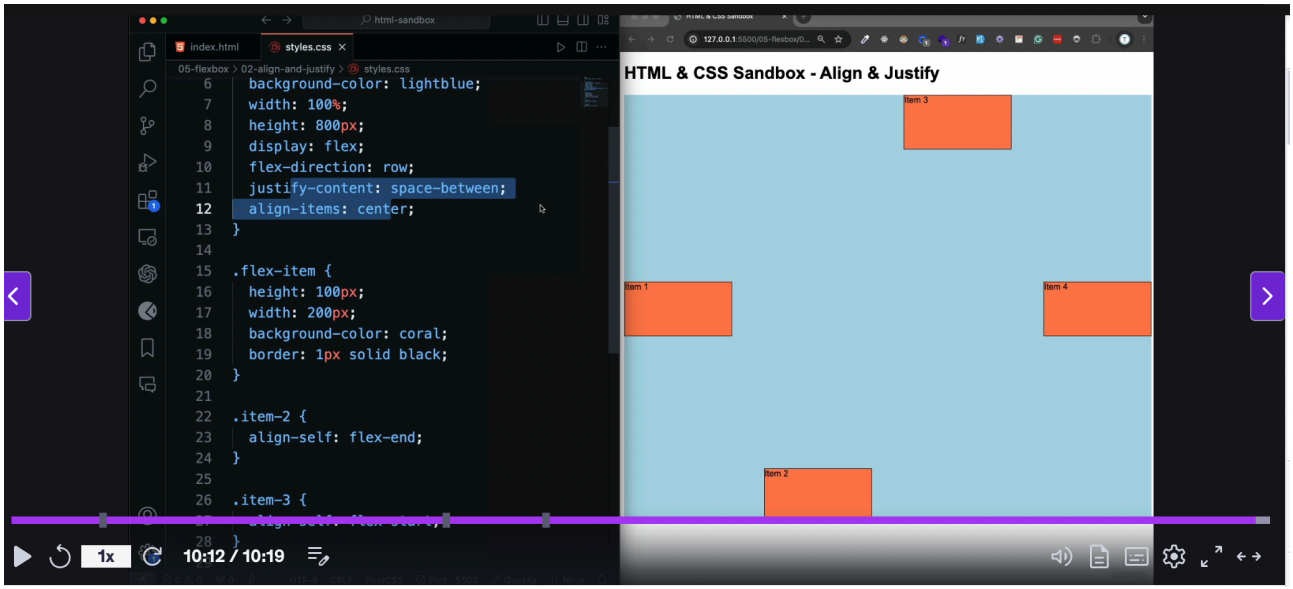
Flexbox column

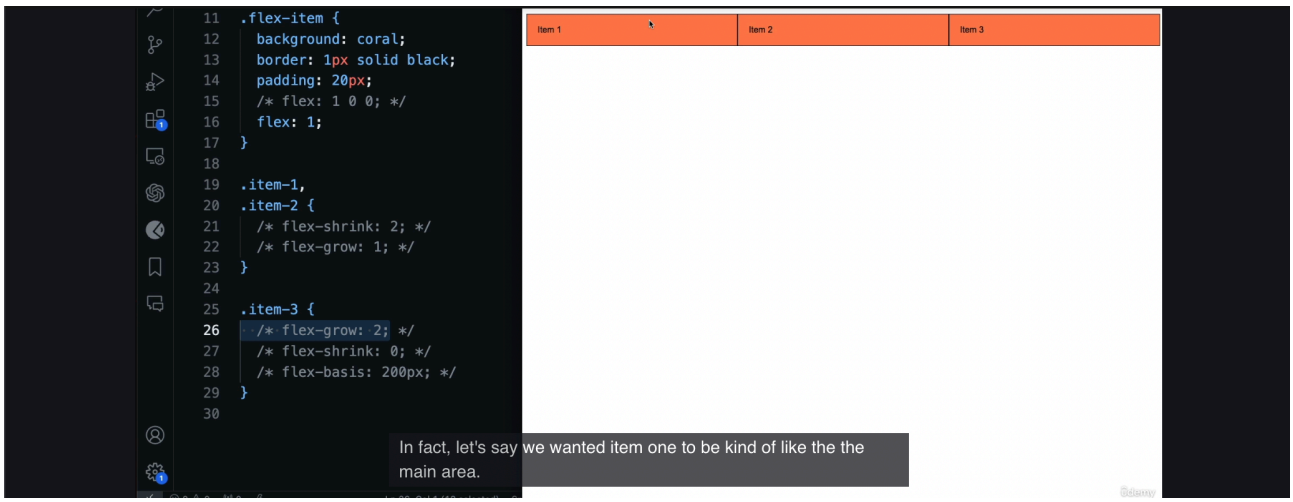


Align Items :

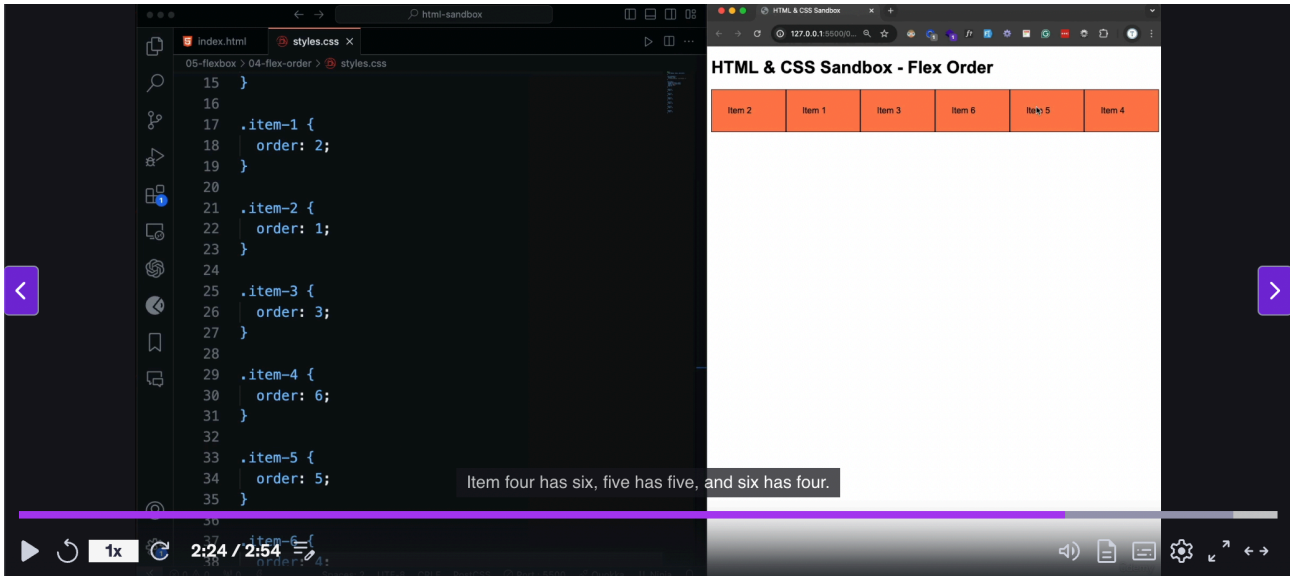

udemy
Modern HTML & CSS From The Beginning 2.0 (2024 Revamp)
COLUMN
flex-container
flex-item
ROW
justify-content
align-items
Captured screenshot
So it might it might take a little while to kind of for that to make sense.
1x
1:07 / 10:19


udemy
Modern HTML & CSS From The Beginning 2.0 (2024 Revamp)
index.html
styles.css
05-flexbox > 02-align-and-justify > styles.css
body {
font-family: Arial, sans-serif;
}
.flex-container {
background-color: lightblue;
display: flex;
width: 100%;
height: 400px;
justify-content: space-evenly;
align-items: flex-start
}
.flex-item {
height: 200px;
width: 200px;
background-color: coral;
border: 1px solid black;
}
HTML & CSS Sandbox - Align & Justify
Item 1
Item 2
Item 3
Item 4
And that's not going to make any difference.

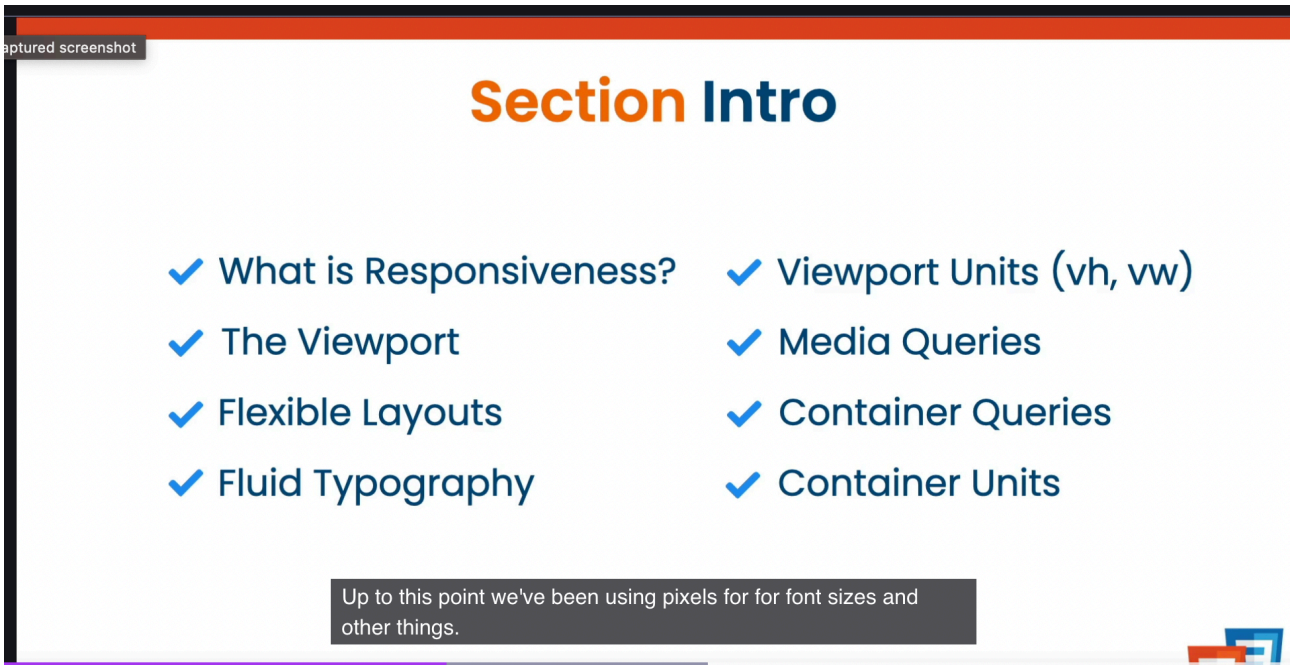

index.html
styles.css
05-flexbox > 02-align-and-justify > styles.css
background-color: lightblue;
width: 100%;
height: 800px;
display: flex;
flex-direction: row;
justify-content: space-between;
align-items: center;
}
.flex-item {
height: 100px;
width: 200px;
background-color: coral;
border: 1px solid black;
}
.item-2 {
align-self: flex-end;
}
.item-3 {
HTML & CSS Sandbox - Align & Justify
Item 3
Item 1
Item 4
Item 2
1x
10:12 / 10:19

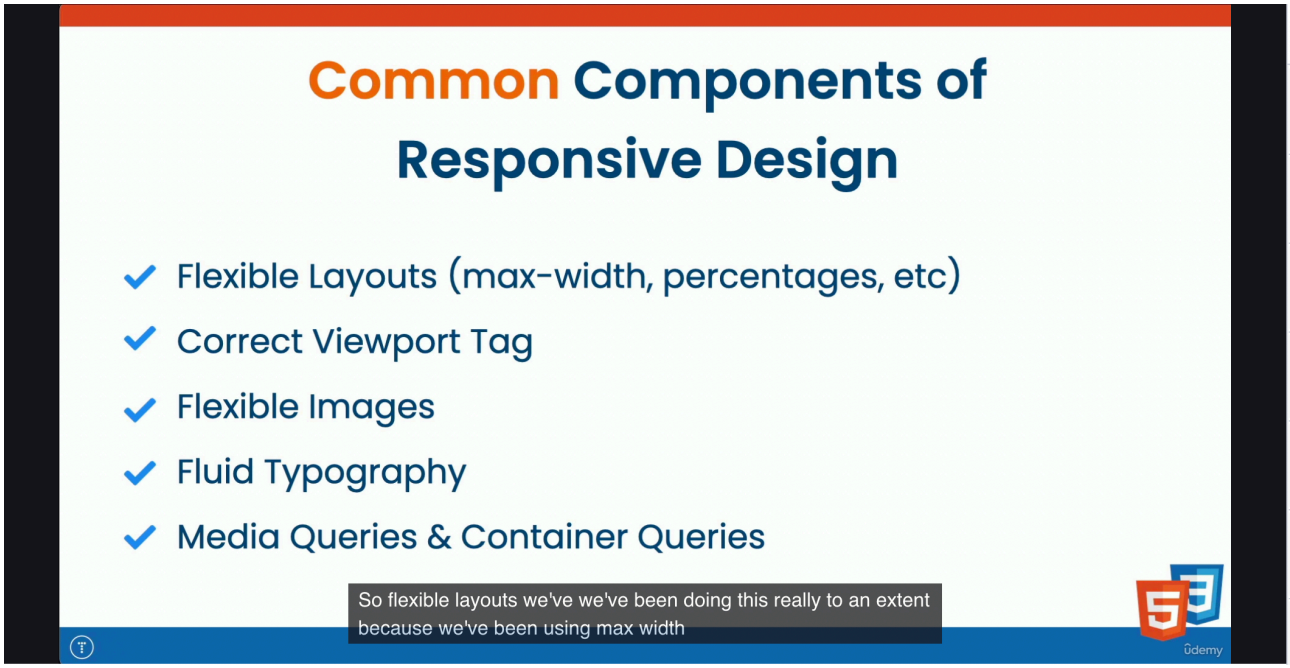

.flex-item {
background: coral;
border: 1px solid black;
padding: 20px;
/* flex: 1 0 0; */
flex: 1;
}
.item-1,
.item-2 {
/* flex-shrink: 2; */
/* flex-grow: 1; */
}
.item-3 {
/* flex-grow: 2; */
/* flex-shrink: 0; */
/* flex-basis: 200px; */
}
Item 1
Item 2
Item 3
In fact, let's say we wanted item one to be kind of like the the main area.

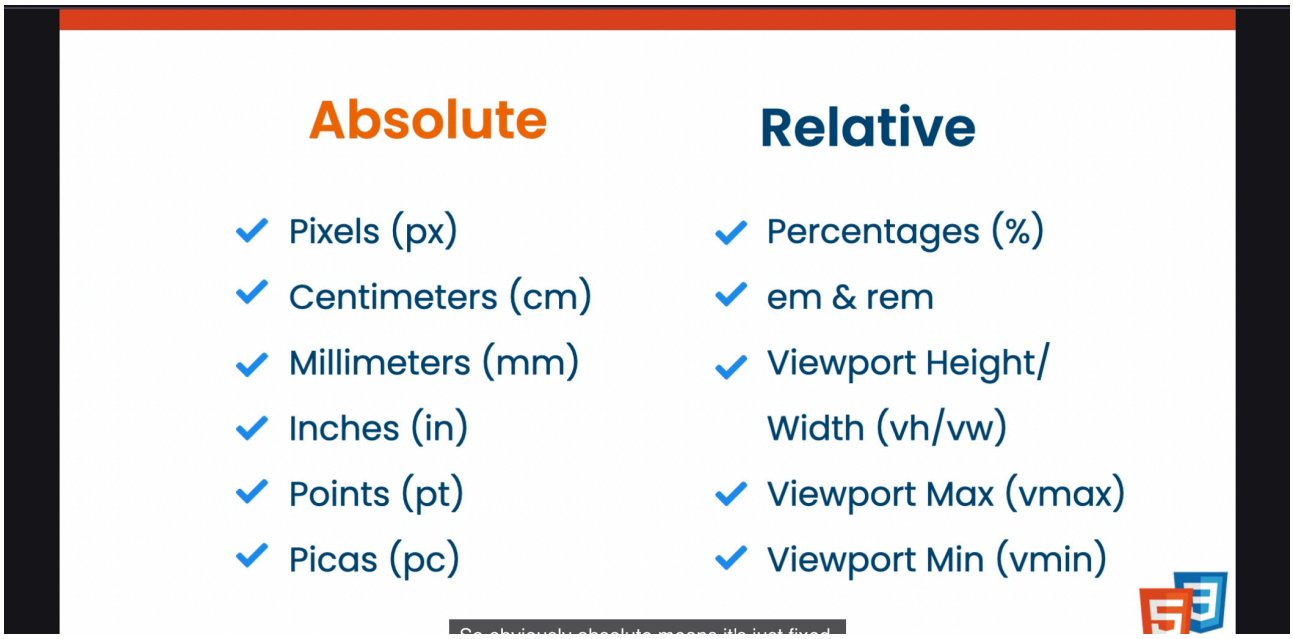
Flex Order:


index.html
styles.css
05-flexbox > 04-flex-order > styles.css
.item-1 {
order: 2;
}
.item-2 {
order: 1;
}
.item-3 {
order: 3;
}
.item-4 {
order: 6;
}
.item-5 {
order: 5;
}
HTML & CSS Sandbox - Flex Order
Item 2
Item 1
Item 3
Item 6
Item 5
Item 4
Item four has six, five has five, and six has four.
1x
2:24 / 2:54

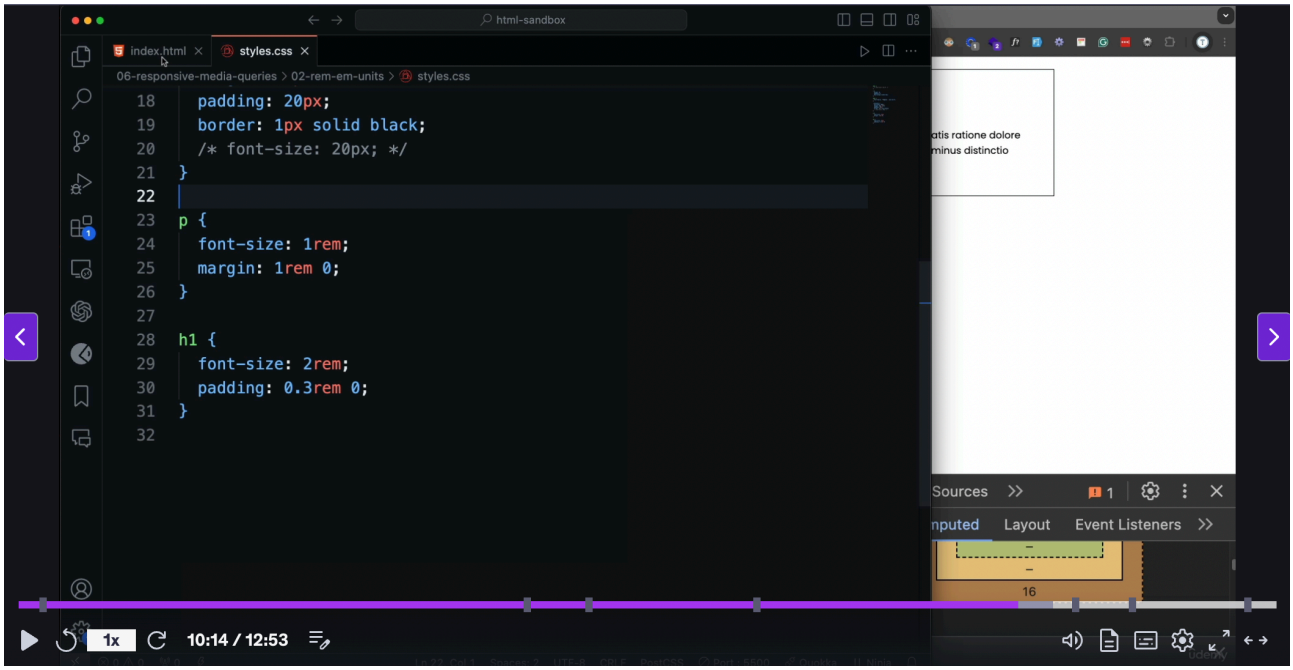
24/05/2025 - Responsive design






Absolute
Relative
Pixels (px)
Centimeters (cm)
Millimeters (mm)
Inches (in)
Points (pt)
Picas (pc)
Percentages (%)
em & rem
Viewport Height/
Width (vh/vw)
Viewport Max (vmax)
Viewport Min (vmin)

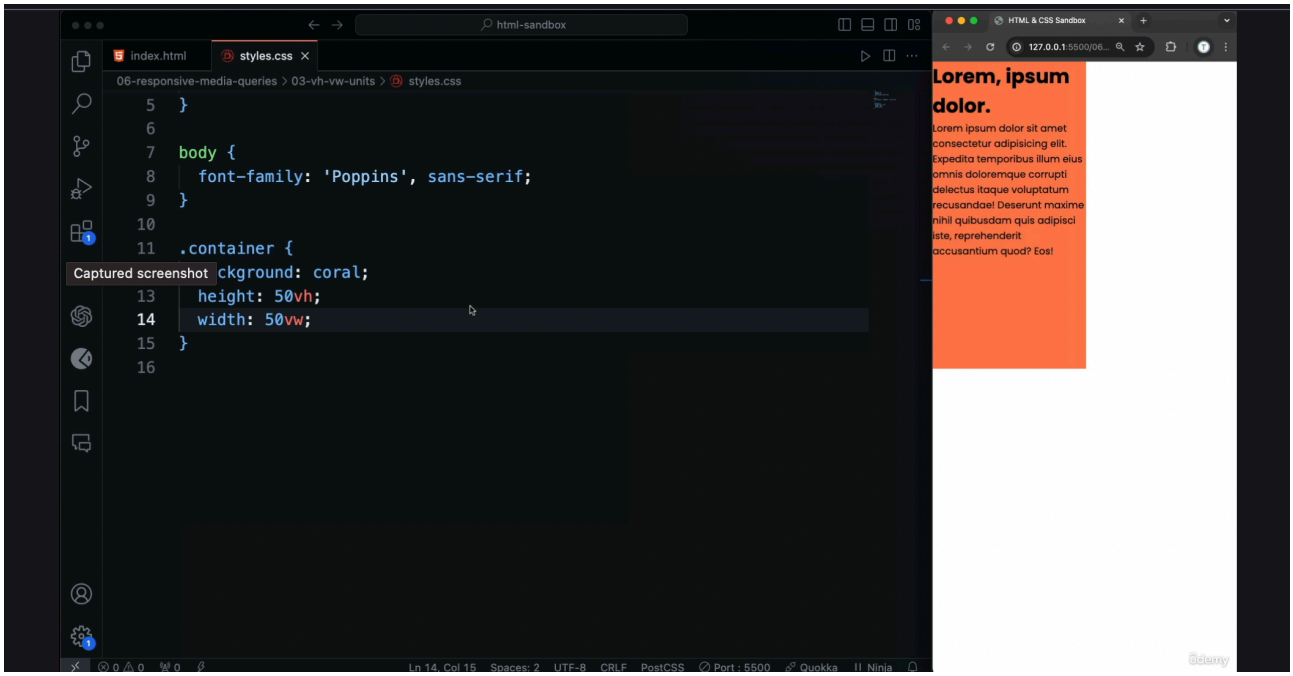
Rem:


index.html
styles.css
06-responsive-media-queries > 02-rem-em-units > styles.css
padding: 20px;
border: 1px solid black;
/* font-size: 20px; */
}
p {
font-size: 1rem;
margin: 1rem 0;
}
h1 {
font-size: 2rem;
padding: 0.3rem 0;
}
Sources
Layout
Event Listeners
1x
10:14 / 12:53

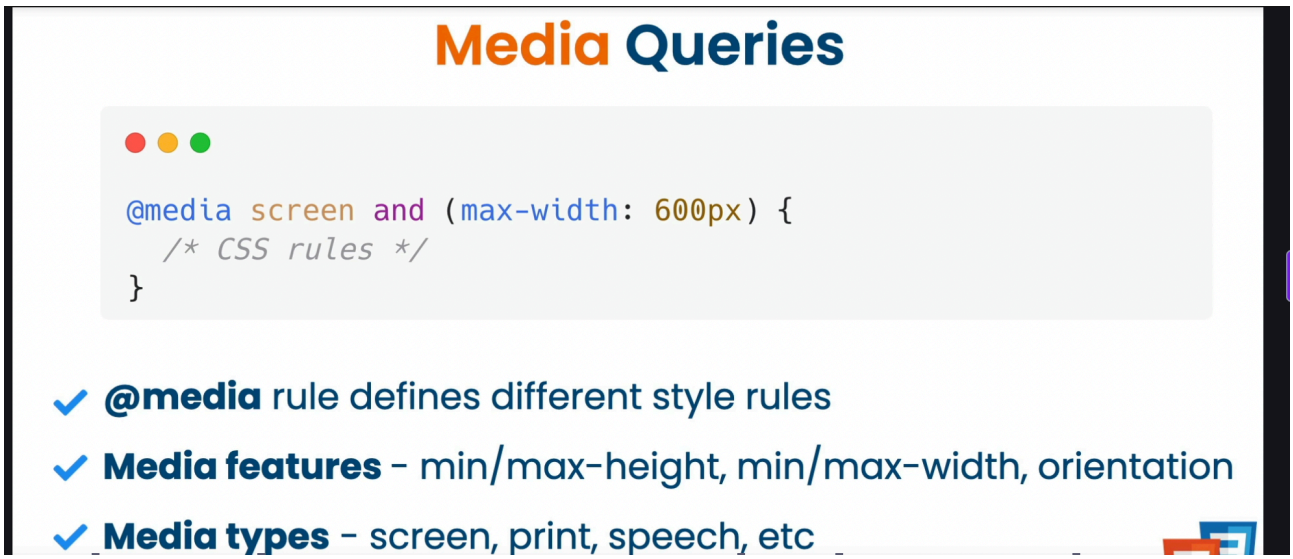
Em :

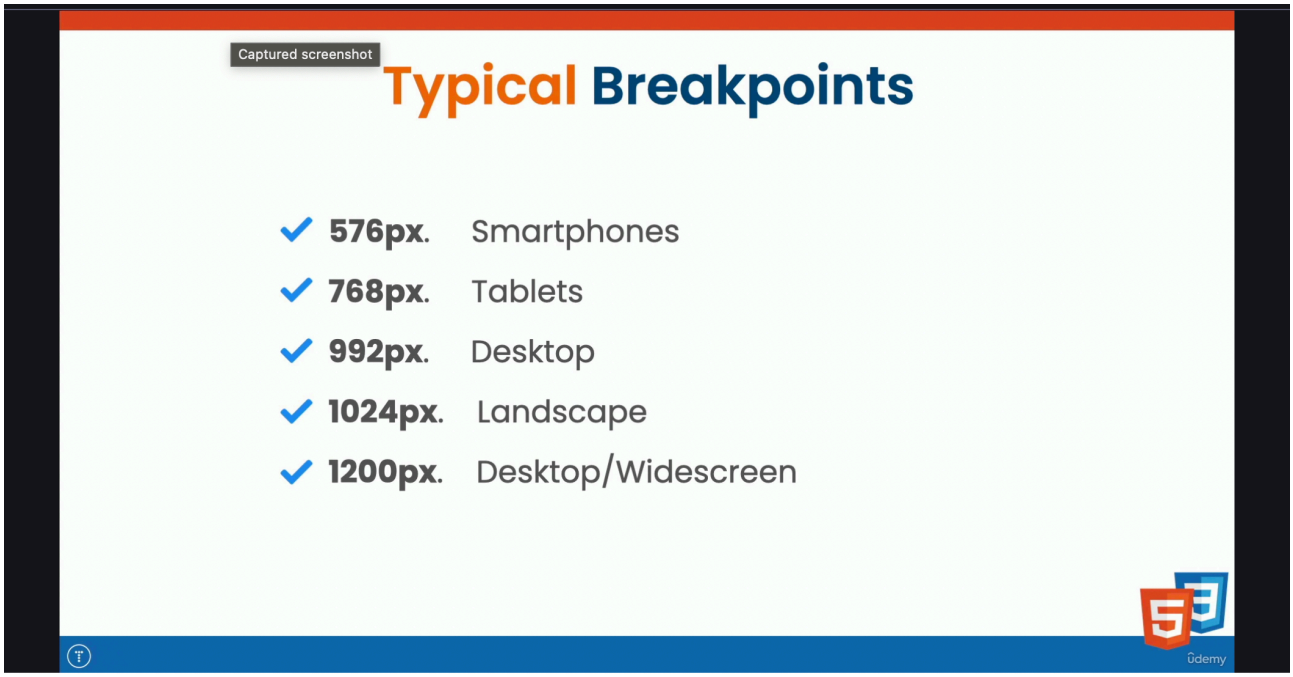

border: 1px solid black;
/* font-size: 20px; */
}
p {
font-size: 1rem;
margin: 1rem 0;
}
h1 {
font-size: 2rem;
padding: 0.3rem 0;
}
ul {
font-size: 1.5em;
}
Sources
Layout
Event Listeners
Show all
Group
border-box
list-item
Poppins, sans-serif
54px
1x
12:24 / 12:53

Vh & vw:

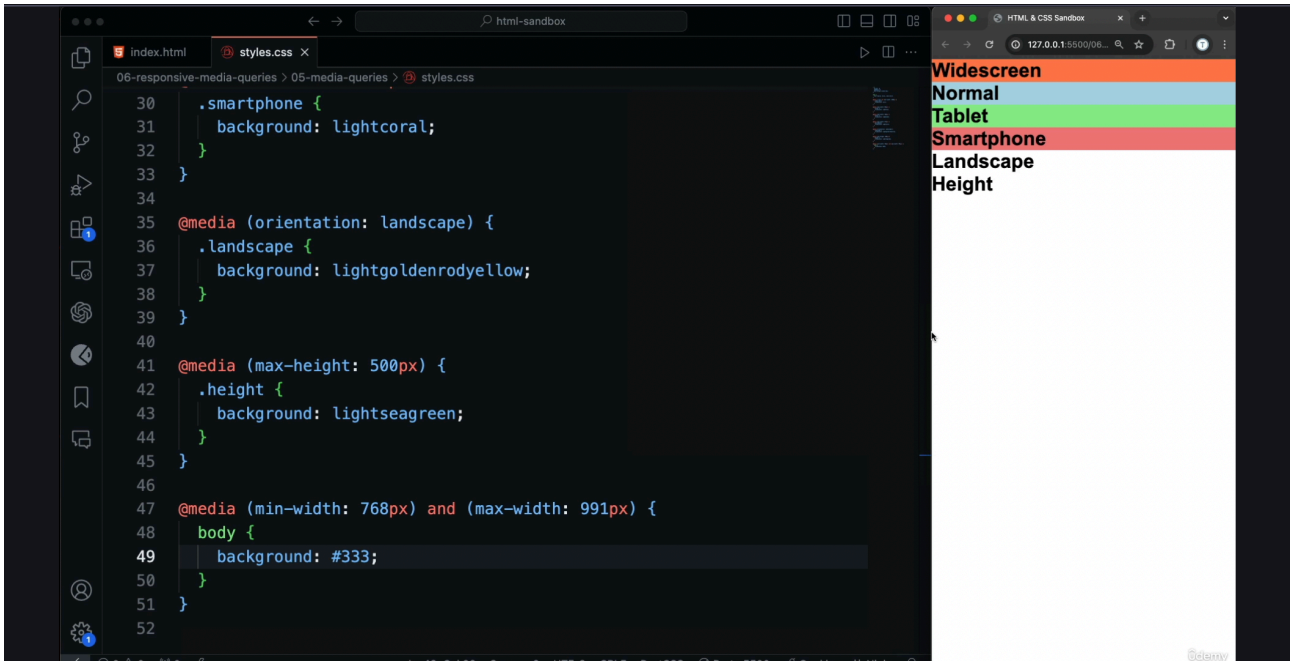

index.html
styles.css
06-responsive-media-queries > 03-vh-vw-units > styles.css
}
body {
font-family: 'Poppins', sans-serif;
}
.container {
Captured screenshot
ckground: coral;
height: 50vh;
width: 50vw;
}
Lorem, ipsum dolor.
Lorem ipsum dolor sit amet consectetur adipisicing elit. Expedita temporibus illum eius omnis doloremque corrupti delectus itaque voluptatum recusandae! Deserunt maxime nihil quibusdam quis adipisci iste, reprehenderit accusantium quod? Eos!

Media Query Syntax :

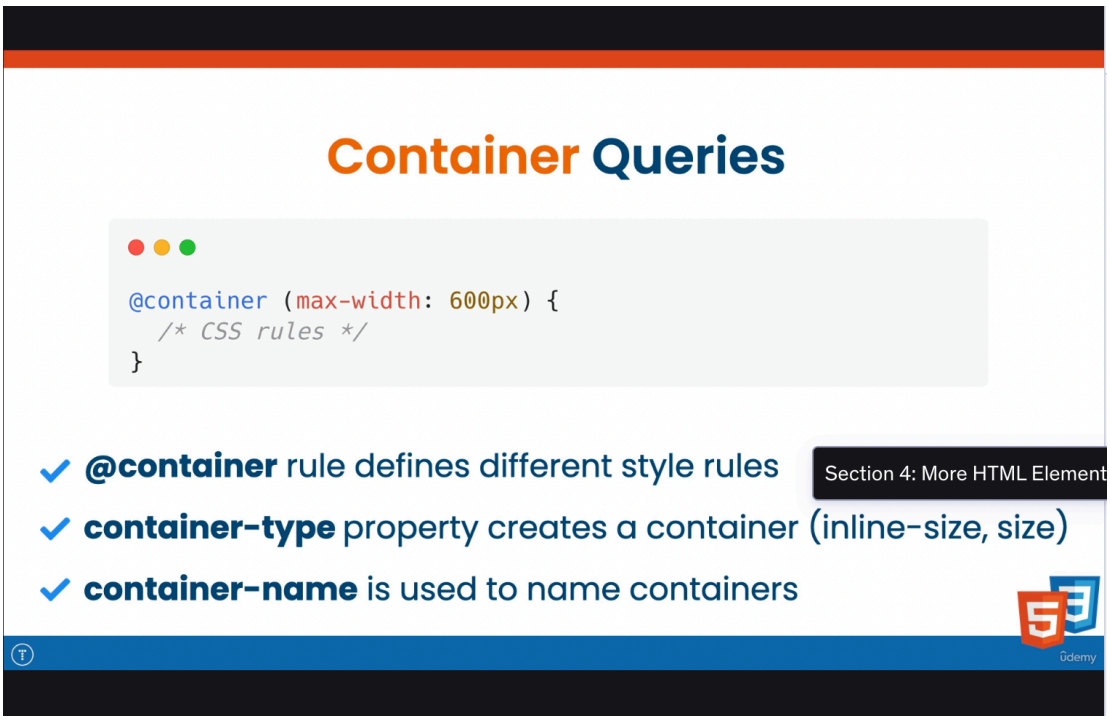


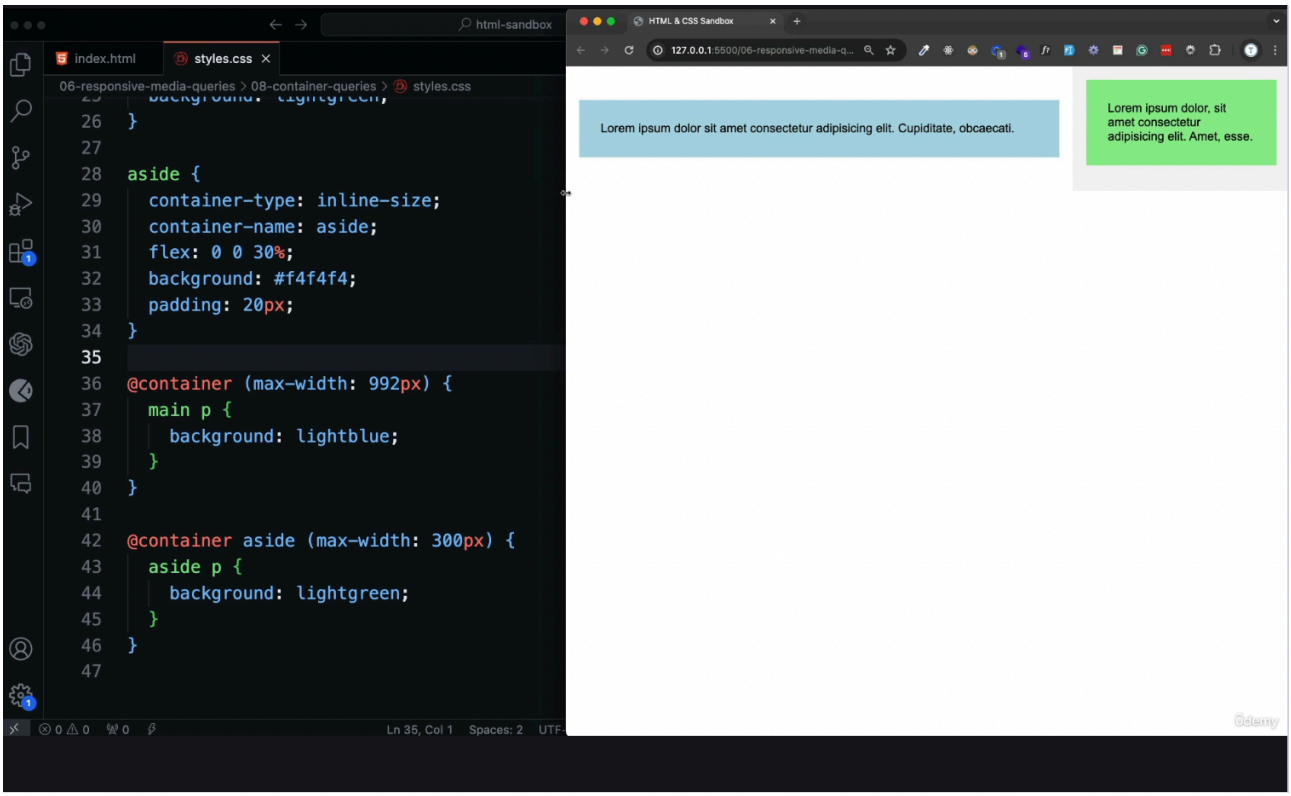


Media queries syntax:

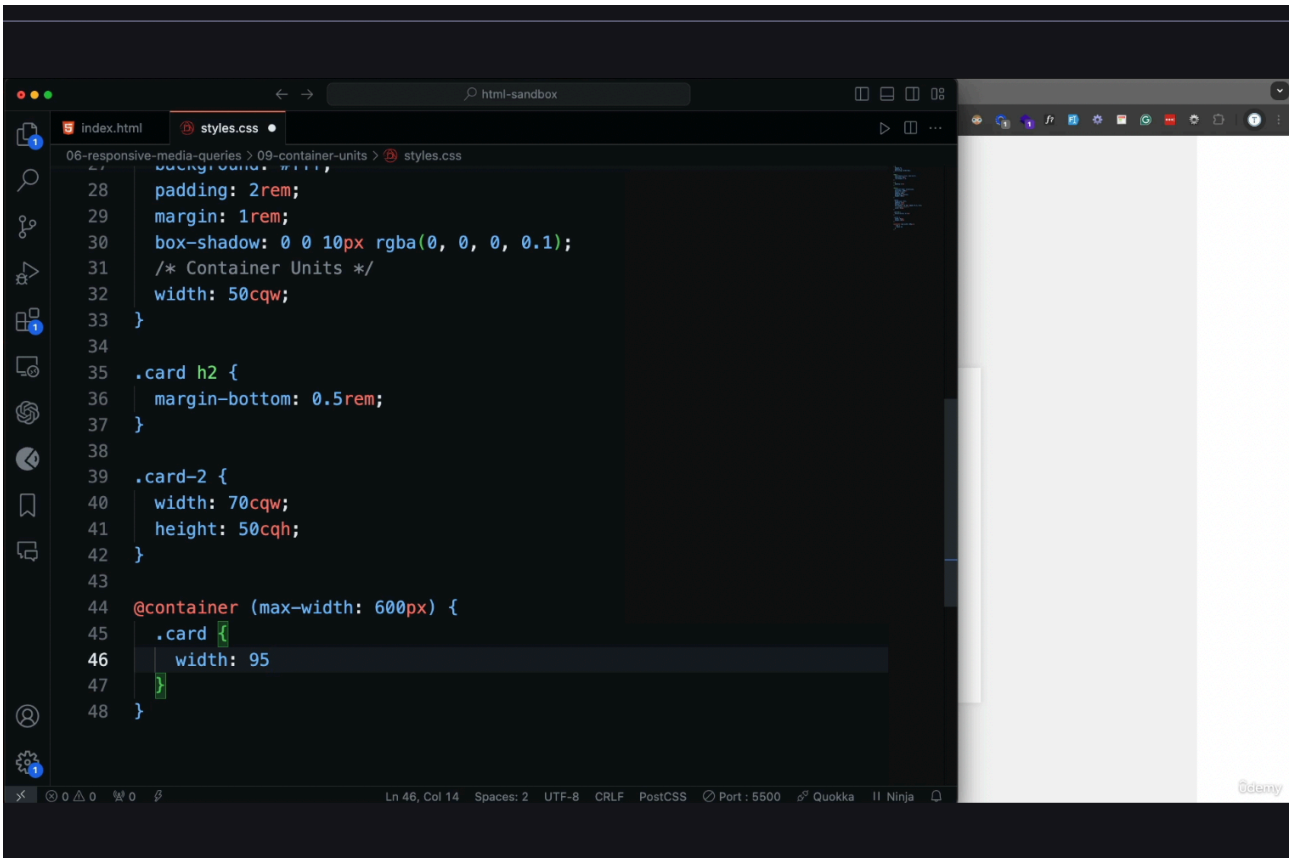


Container queries:

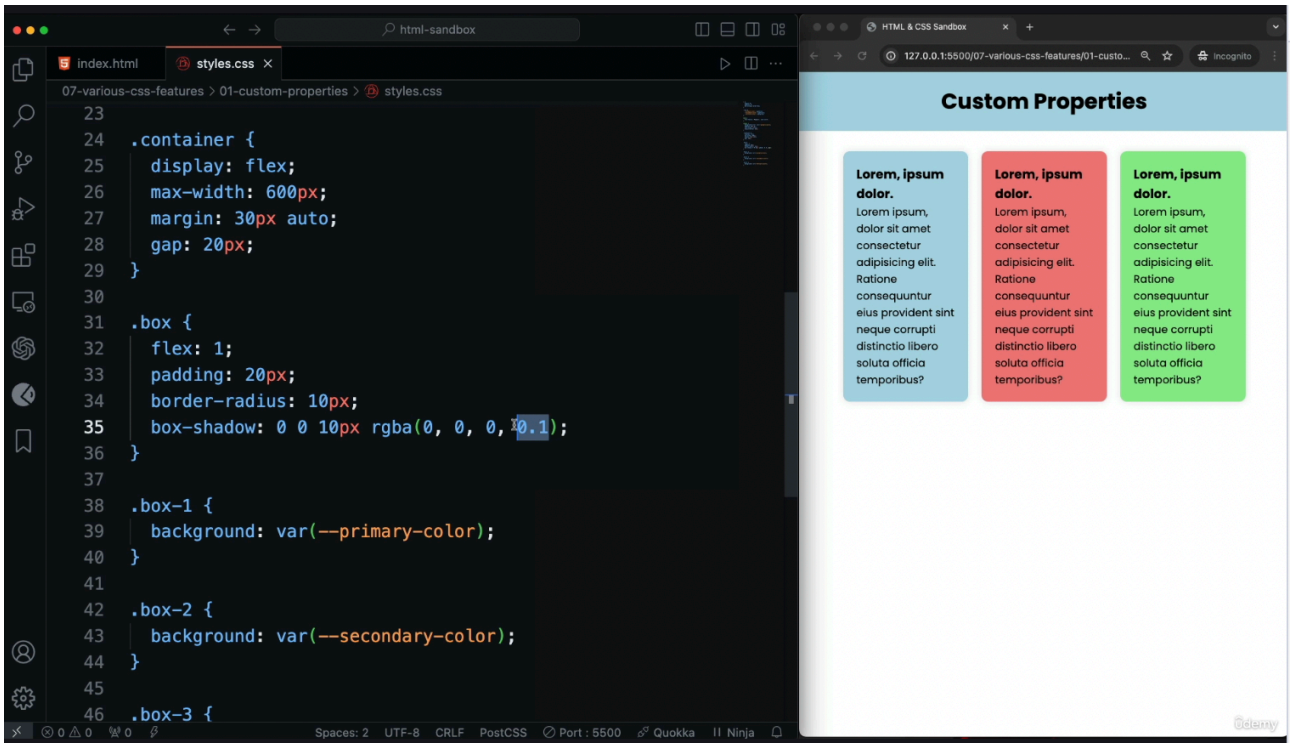




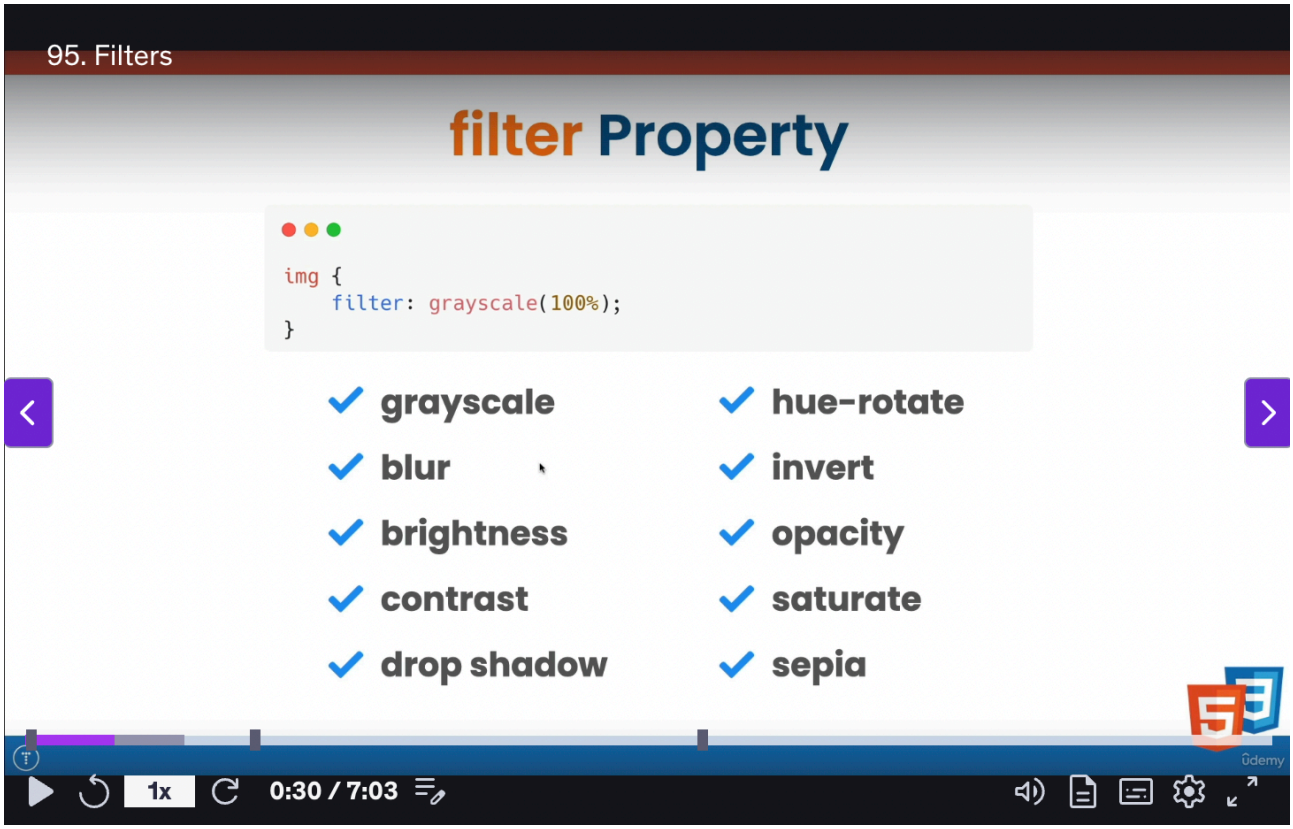
cqw & cqh: (Container Query width & Container Query height)

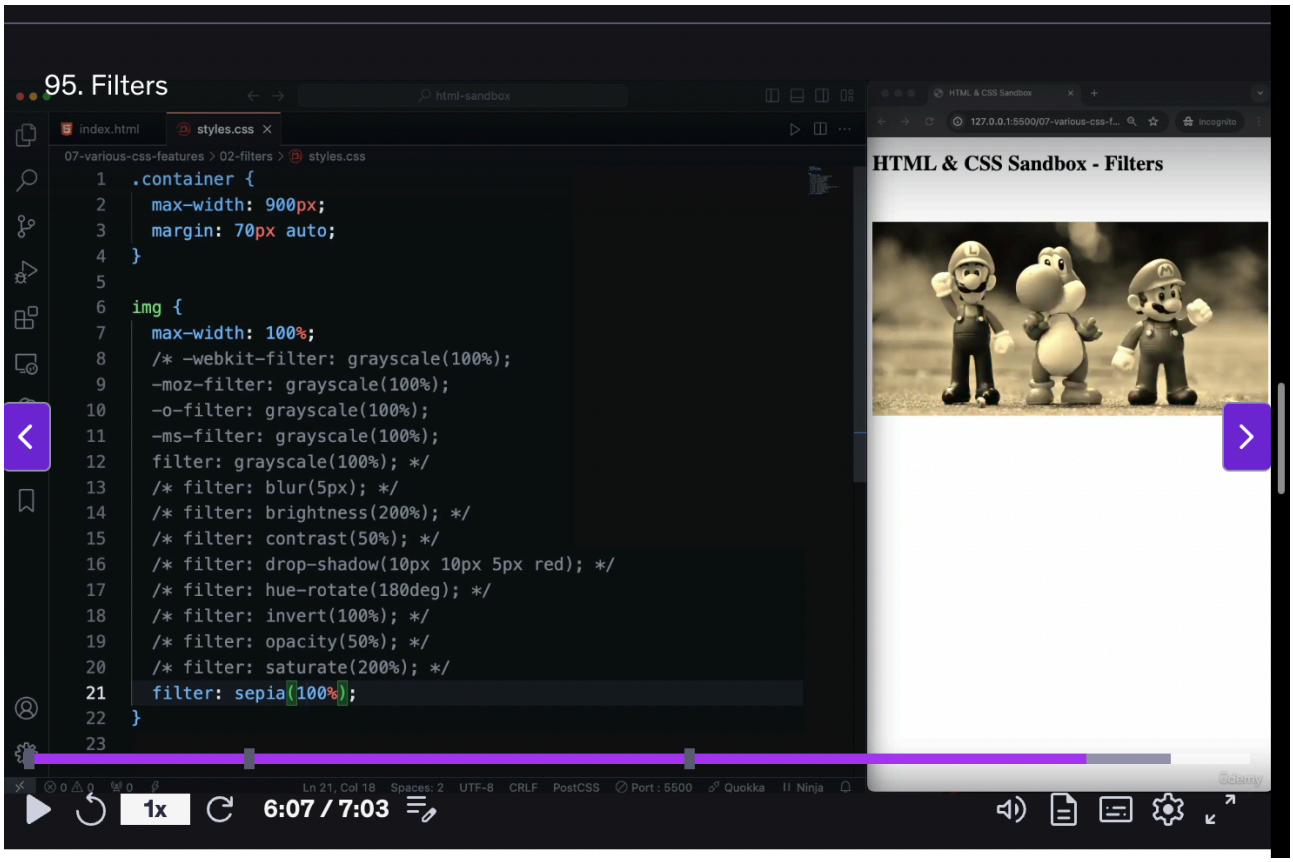


custom properties:

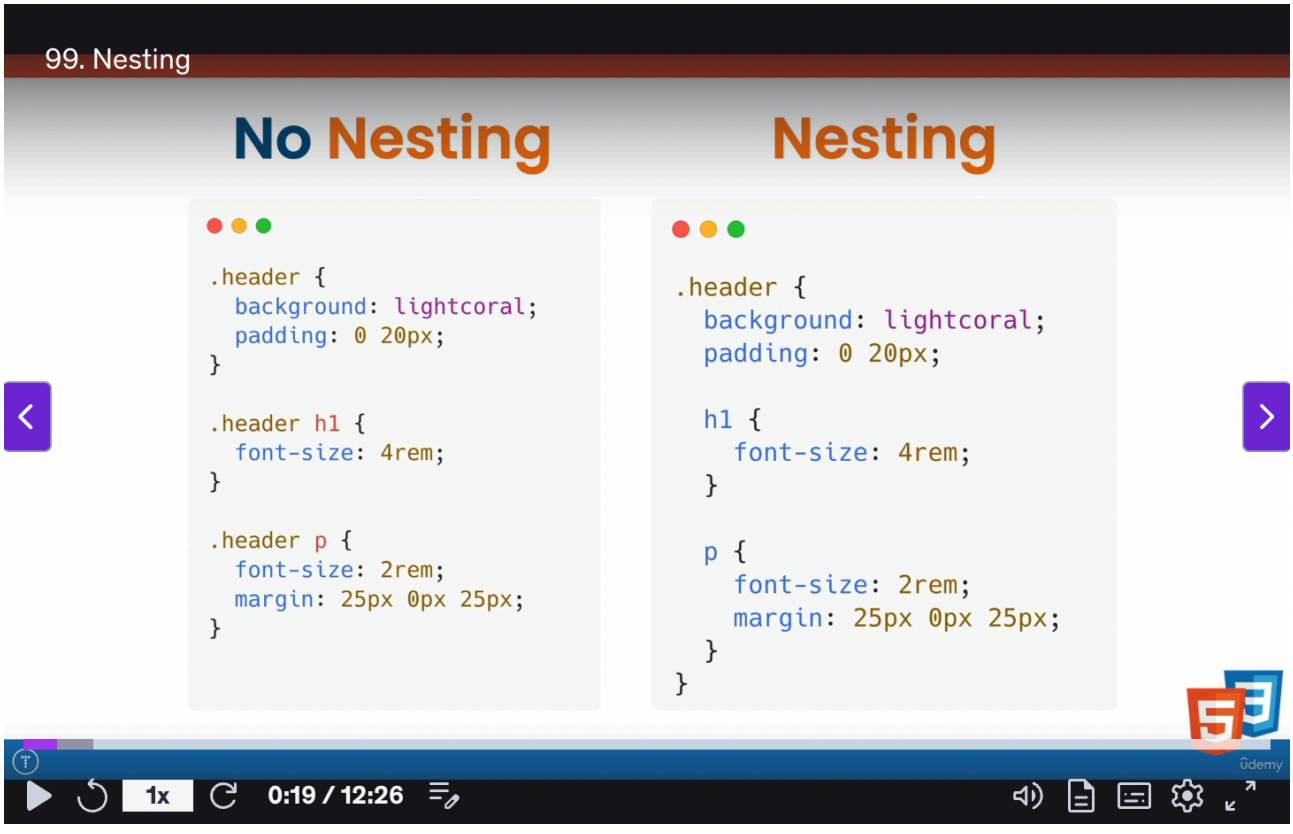


Filters :

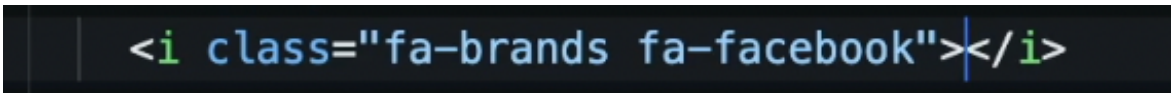



95. Filters
index.html
styles.css
07-various-css-features > 02-filters > styles.css
.container {
max-width: 900px;
margin: 70px auto;
}
img {
max-width: 100%;
/* -webkit-filter: grayscale(100%);
-moz-filter: grayscale(100%);
-o-filter: grayscale(100%);
-ms-filter: grayscale(100%);
filter: grayscale(100%); */
/* filter: blur(5px); */
/* filter: brightness(200%); */
/* filter: contrast(50%); */
/* filter: drop-shadow(10px 10px 5px red); */
/* filter: hue-rotate(180deg); */
/* filter: invert(100%); */
/* filter: opacity(50%); */
/* filter: saturate(200%); */
filter: sepia(100%);
}
HTML & CSS Sandbox - Filters
1x
6:07 / 7:03

Nesting:


99. Nesting
No Nesting
Nesting
.header {
background: lightcoral;
padding: 0 20px;
}
.header h1 {
font-size: 4rem;
}
.header p {
font-size: 2rem;
margin: 25px 0px 25px;
}
.header {
background: lightcoral;
padding: 0 20px;
h1 {
font-size: 4rem;
}
p {
font-size: 2rem;
margin: 25px 0px 25px;
}
}
1x
0:19 / 12:26

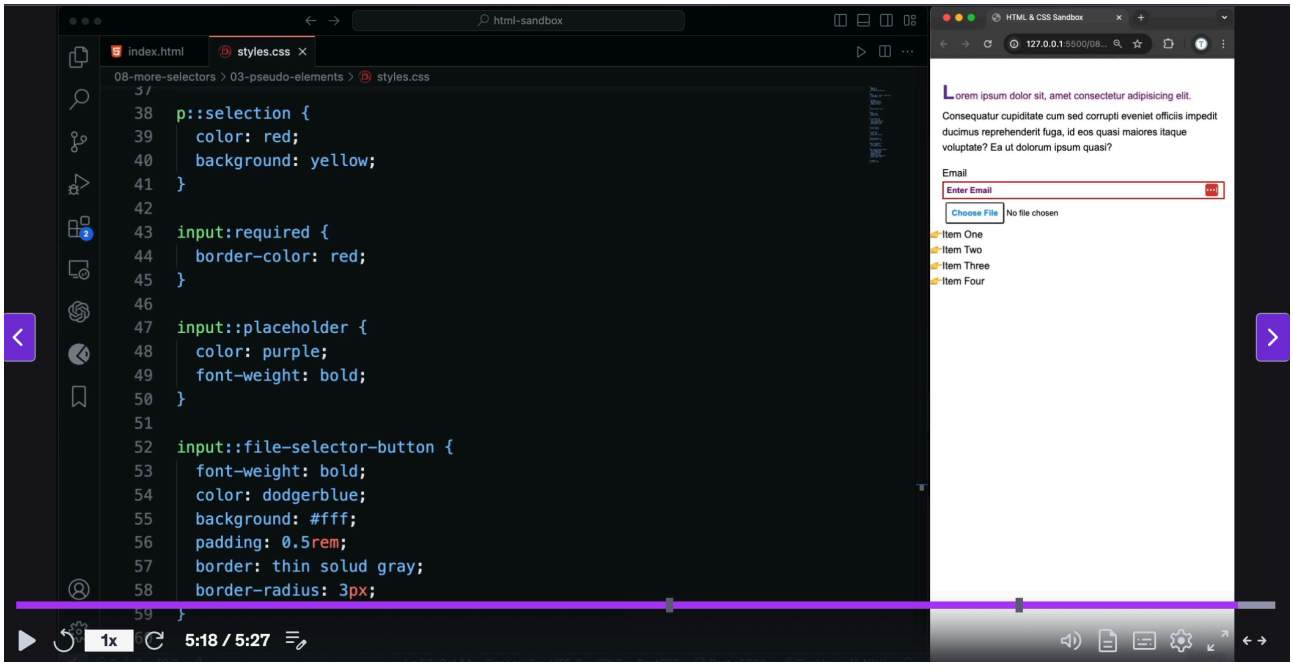
Code to insert the logo of famous brands :



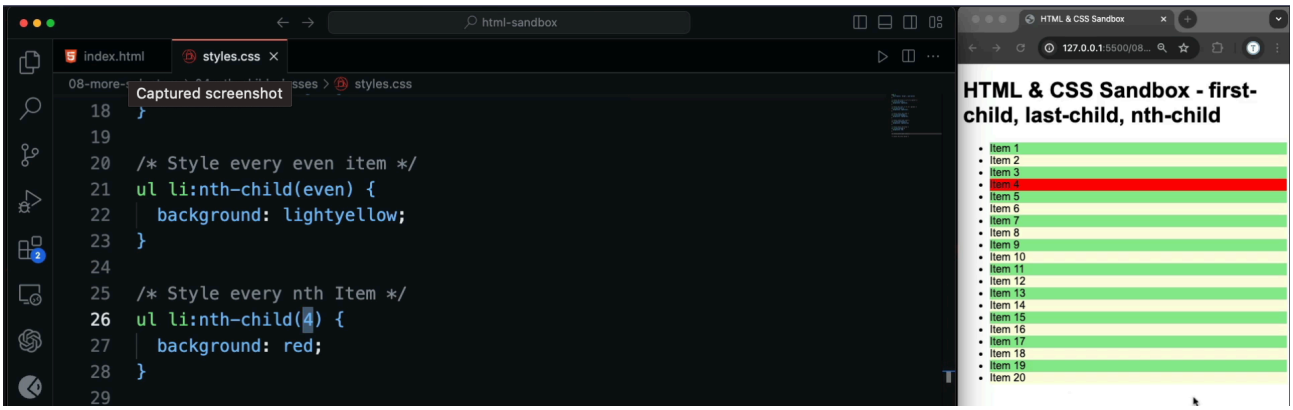
24/05/2025 - Pseudo elements & grid properties

Pseudo class:

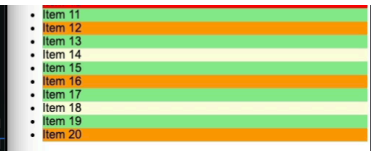
Extra features :

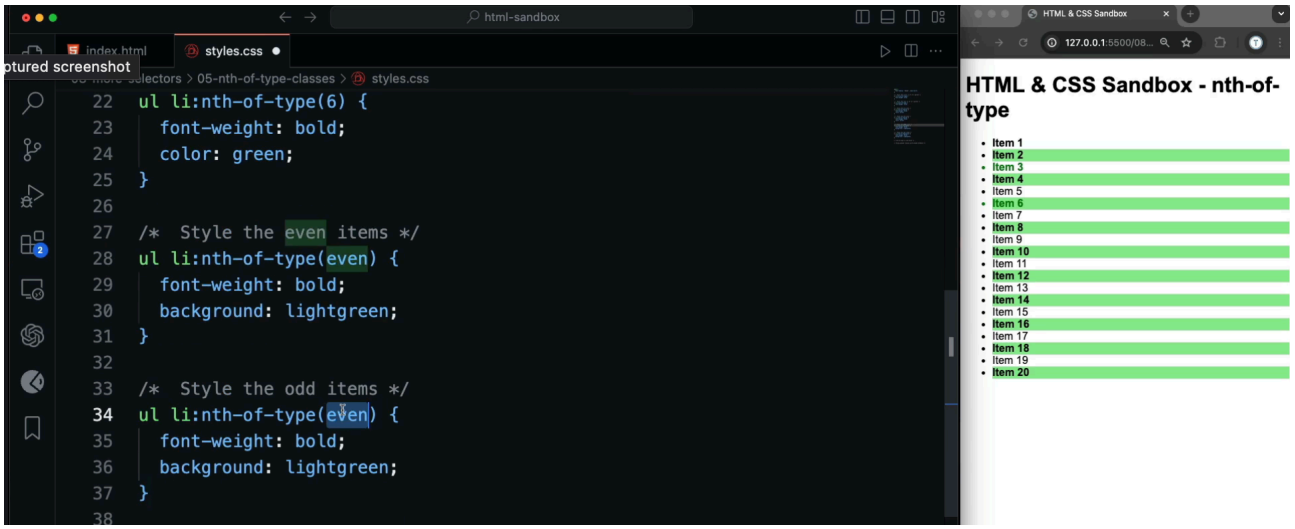


Pseudo class - first, last and nth child:

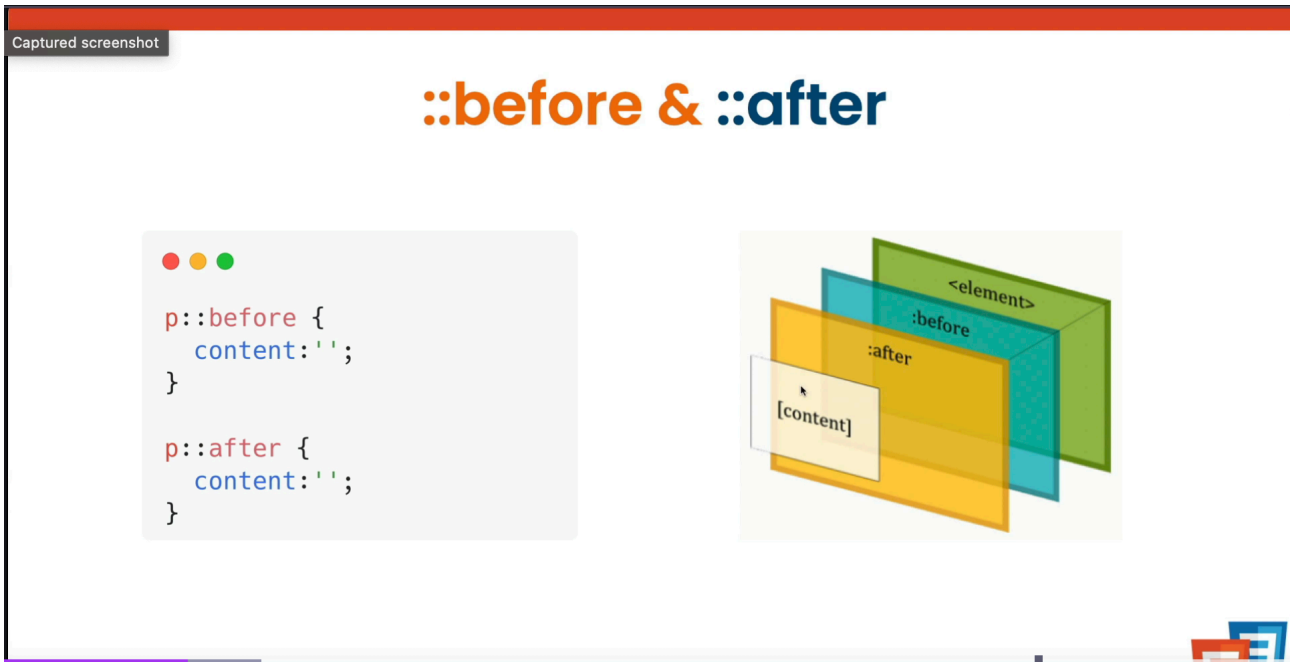


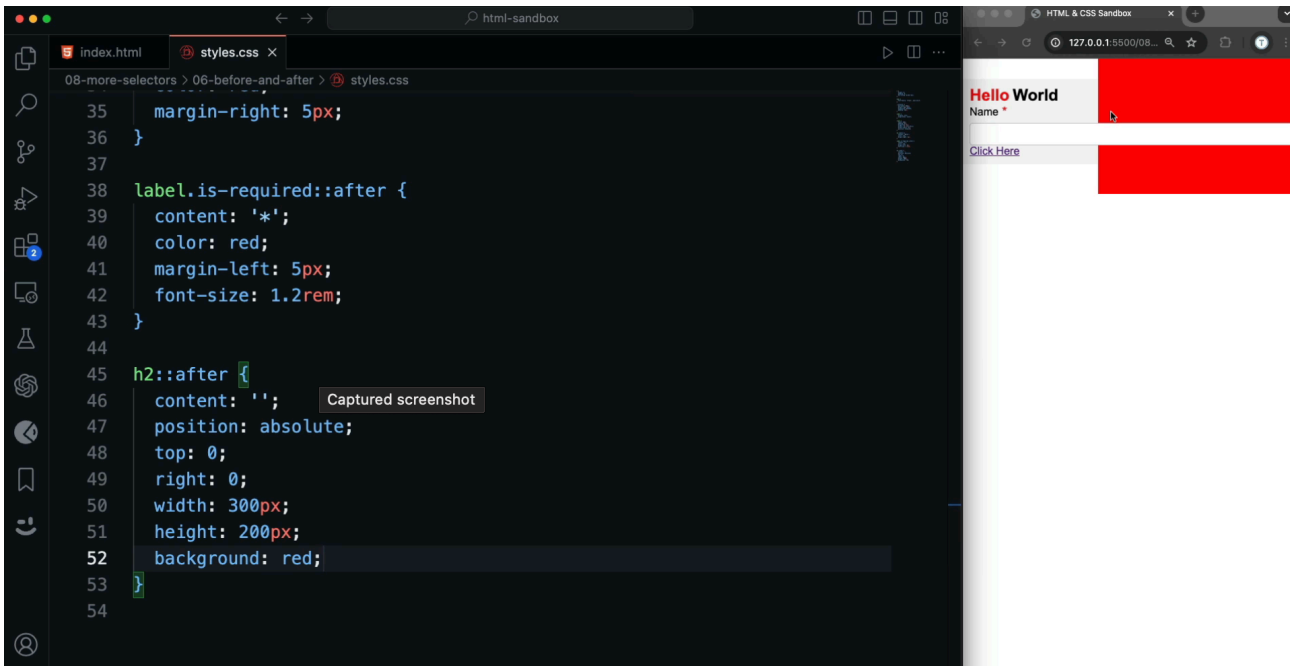
```css
/*  Style every 4th item */
ul li:nth-child(4n) {
  background: orange;
}
```

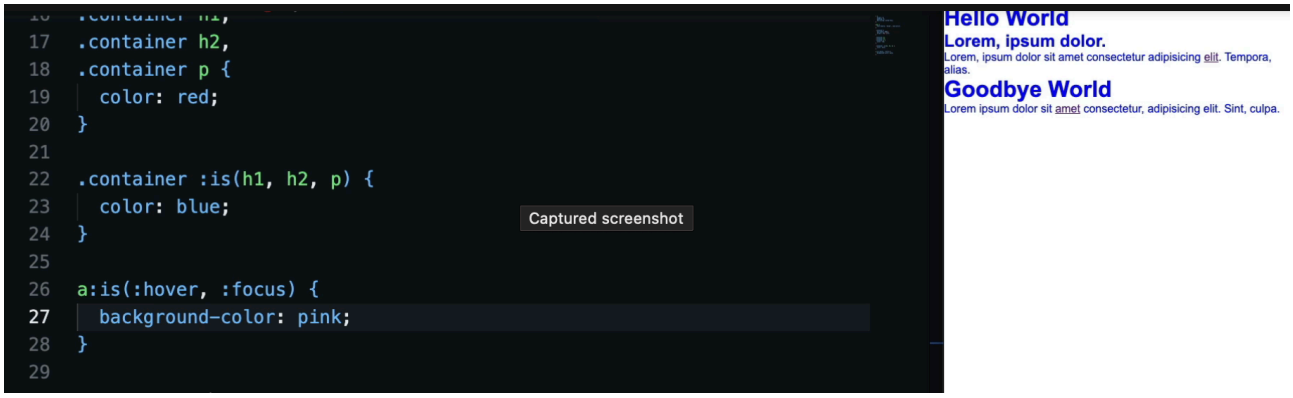


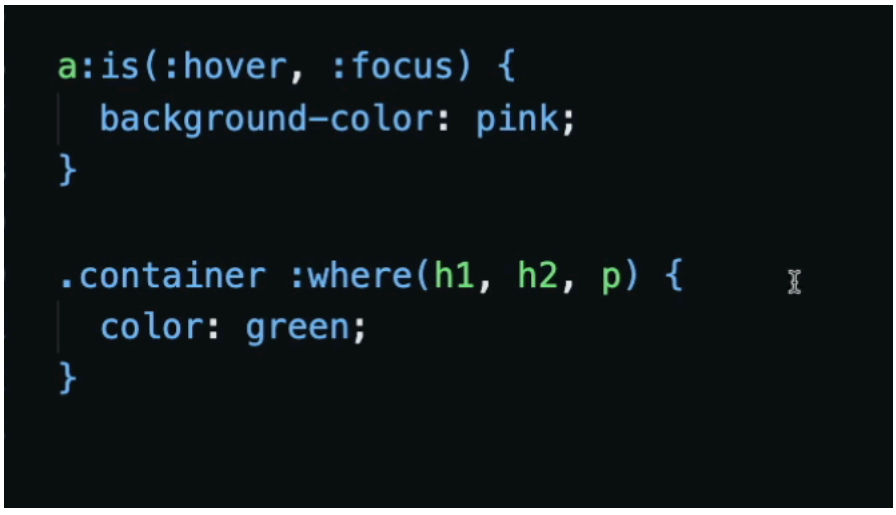


Pseudo by type




html-sandbox
index.html
styles.css
08-more-selectors > 06-before-and-after > styles.css
35 margin-right: 5px;
36 }
37
38 label.is-required::after {
39 content: '*';
40 color: red;
41 margin-left: 5px;
42 font-size: 1.2rem;
43 }
44
45 h2::after {
46 content: '';
47 position: absolute;
48 top: 0;
49 right: 0;
50 width: 300px;
51 height: 200px;
52 background: red;
53 }
54
Captured screenshot
HTML & CSS Sandbox
127.0.0.1:5500/08...
Hello World
Name *
Click Here

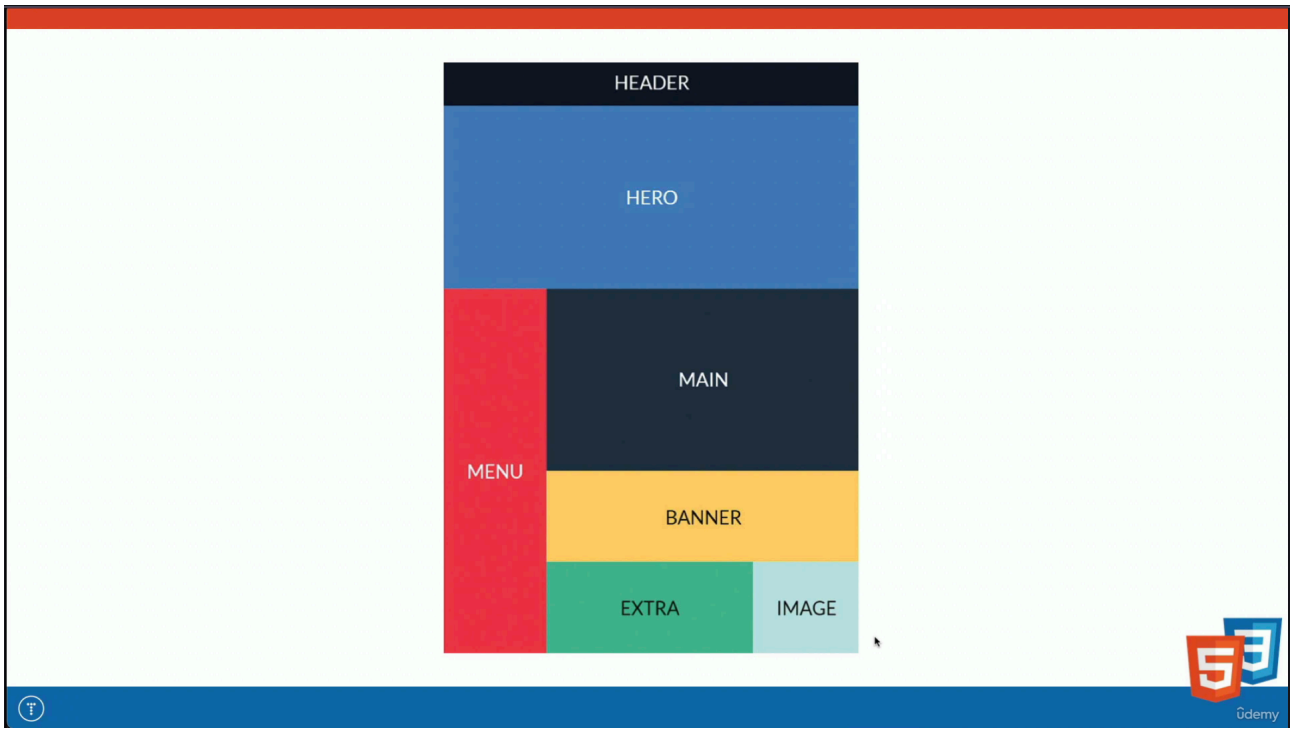

17 .container h2,
18 .container p {
19 color: red;
20 }
21
22 .container :is(h1, h2, p) {
23 color: blue;
24 }
25
26 a:is(:hover, :focus) {
27 background-color: pink;
28 }
29
Captured screenshot
Hello World
Lorem, ipsum dolor.
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Tempora, alias.
Goodbye World
Lorem ipsum dolor sit amet consectetur, adipisicing elit. Sint, culpa.

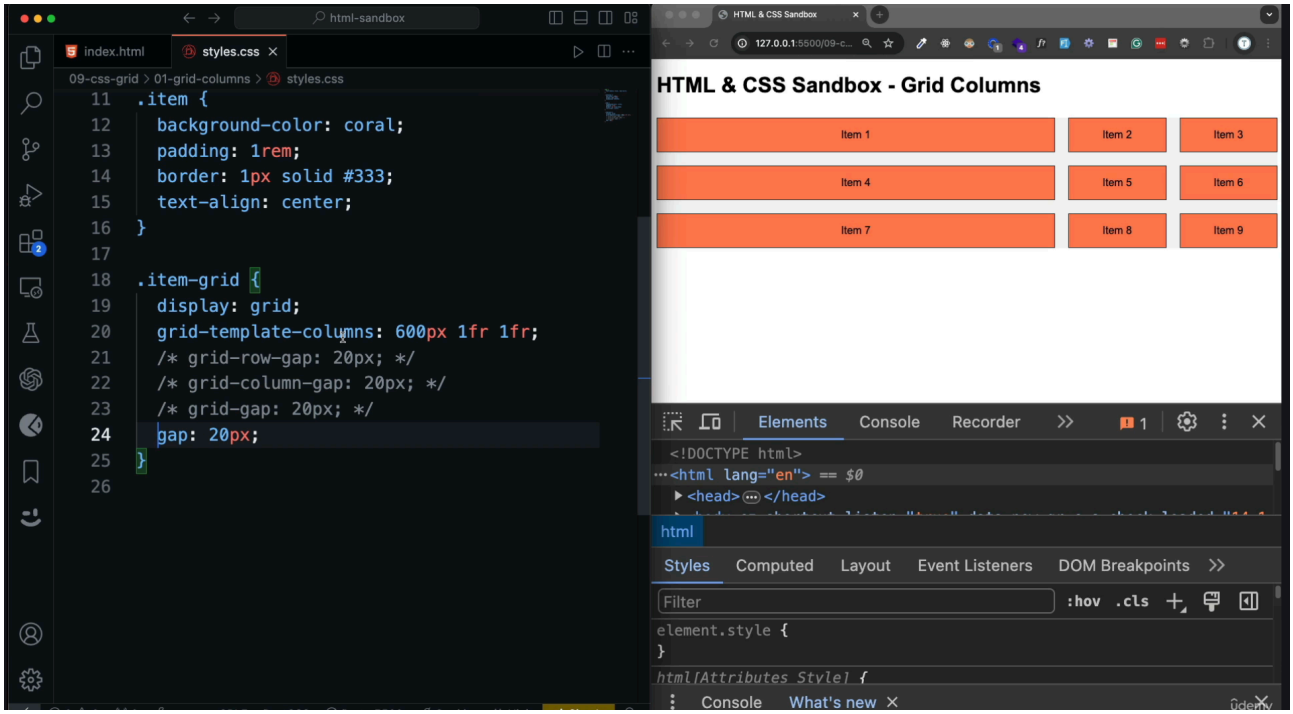

a:is(:hover, :focus) {
background-color: pink;
}
.container :where(h1, h2, p) {
color: green;
}

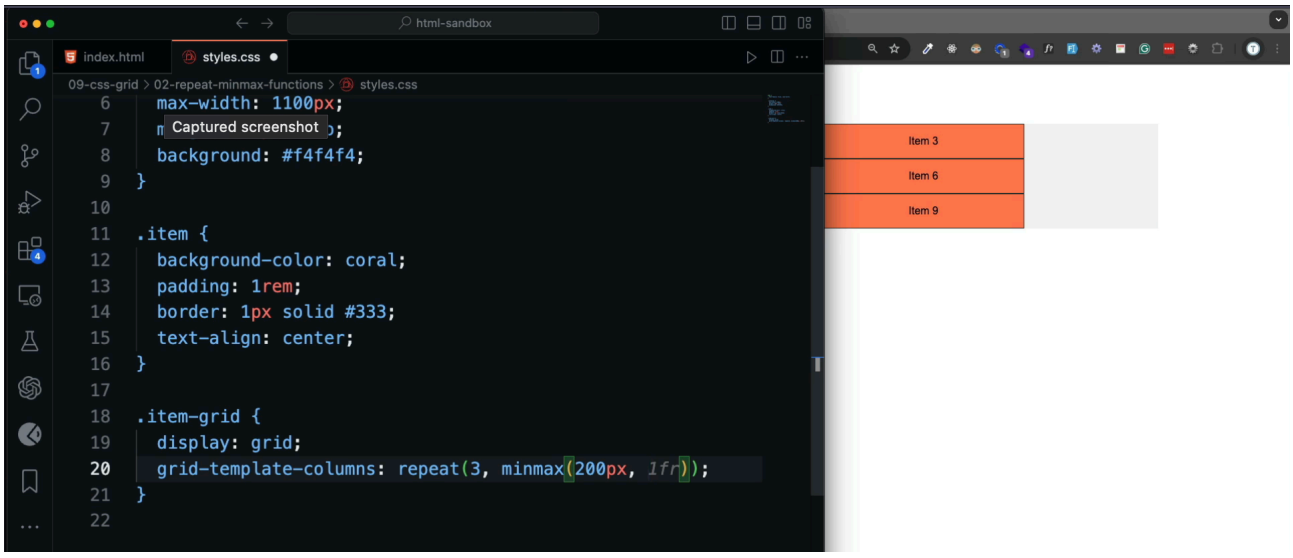
```
22  .contai… p) {
23    color: blue;
24  }
25
26  a:is(:hover, :focus) {
27    background-color: pink;
28  }
29
30  .container :where(h1, h2, p) {
31    color: green;
32  } */
33
34  .container:has(h1 span) {
35    color: red;
36  }
37
```

Captured screenshot

Grid :

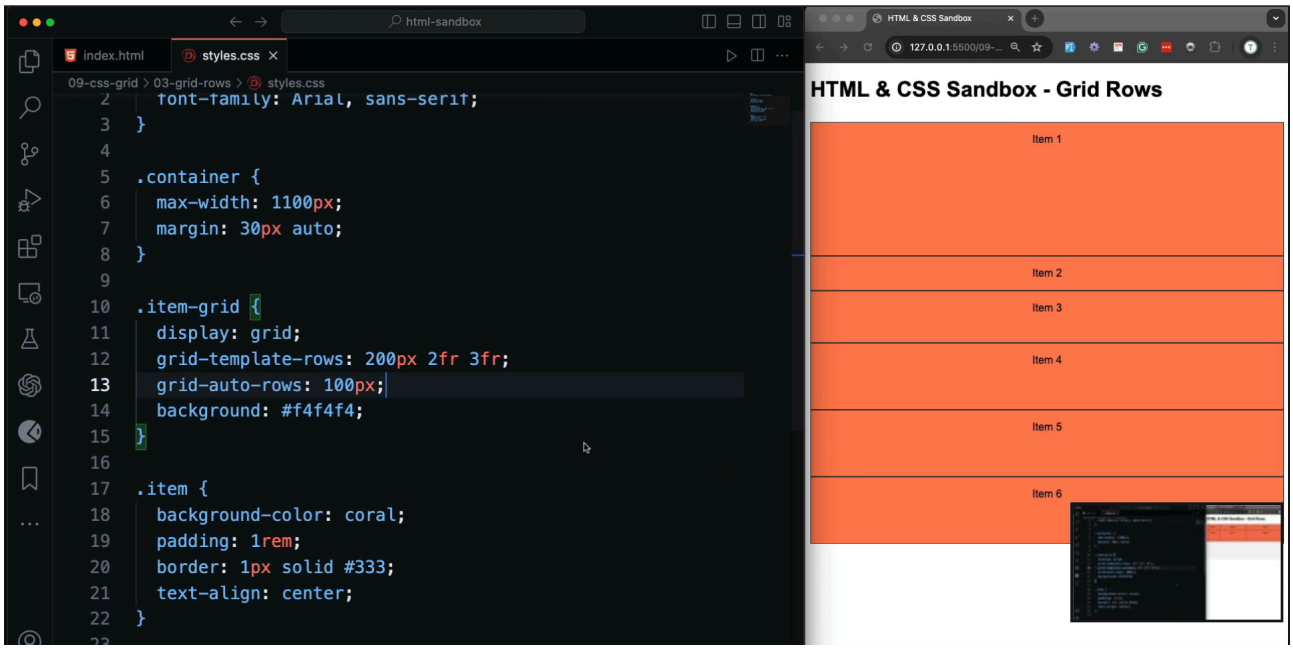




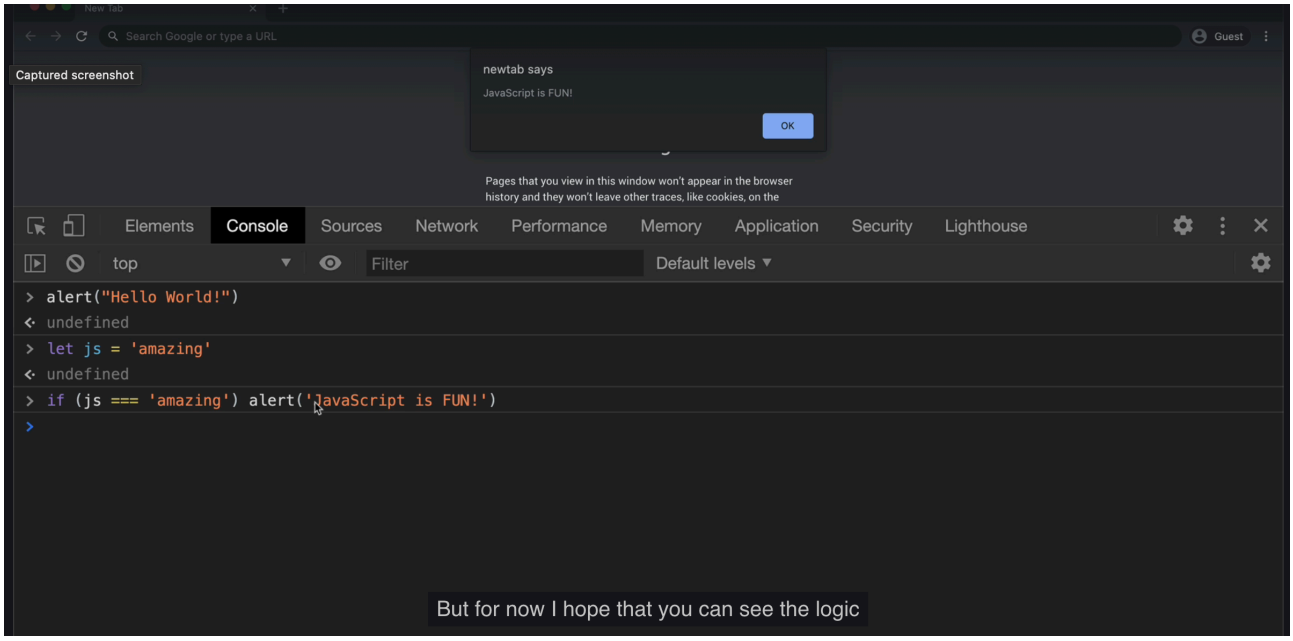


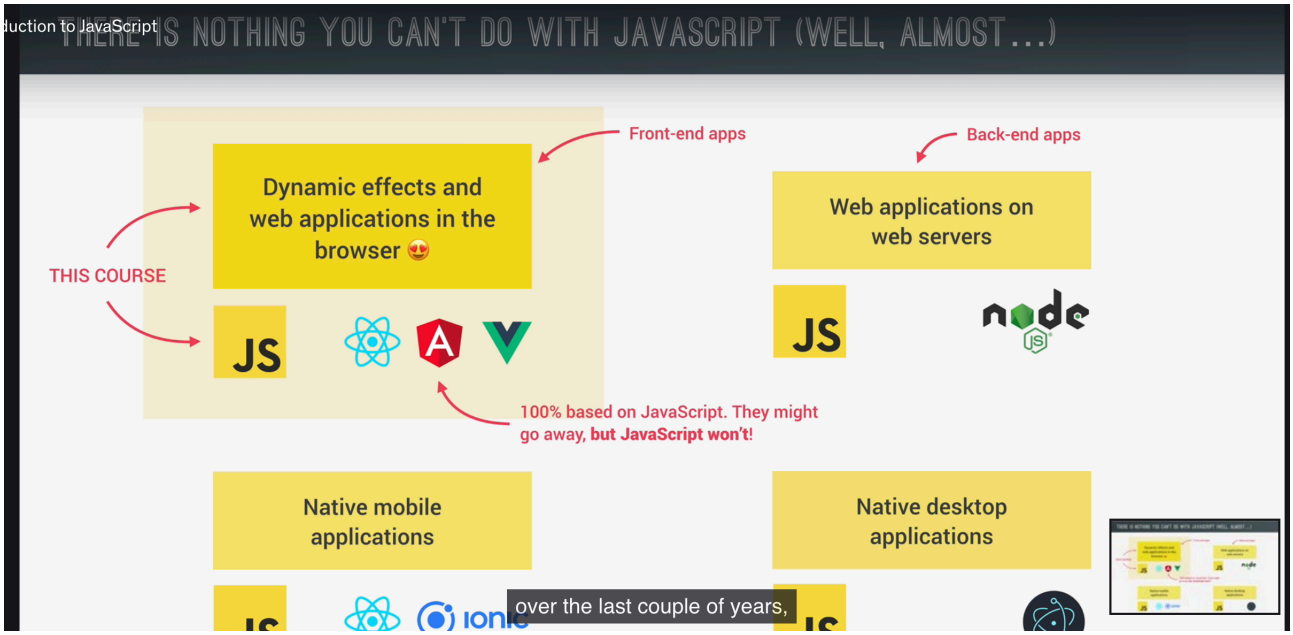
Minmax in grid

Grids rows


html-sandbox
index.html
styles.css
09-css-grid > 03-grid-rows > styles.css
font-family: Arial, sans-serif;
}
.container {
max-width: 1100px;
margin: 30px auto;
}
.item-grid {
display: grid;
grid-template-rows: 200px 2fr 3fr;
grid-auto-rows: 100px;
background: #f4f4f4;
}
.item {
background-color: coral;
padding: 1rem;
border: 1px solid #333;
text-align: center;
}
HTML & CSS Sandbox
127.0.0.1:5500/09-...
HTML & CSS Sandbox - Grid Rows
Item 1
Item 2
Item 3
Item 4
Item 5
Item 6

29/04/2025
JavaScript Basics





```
<script>
  let js = 'amazing';
  if (js === 'amazing') alert('Java Script is Fun!');

</script>
```

Variables and values:

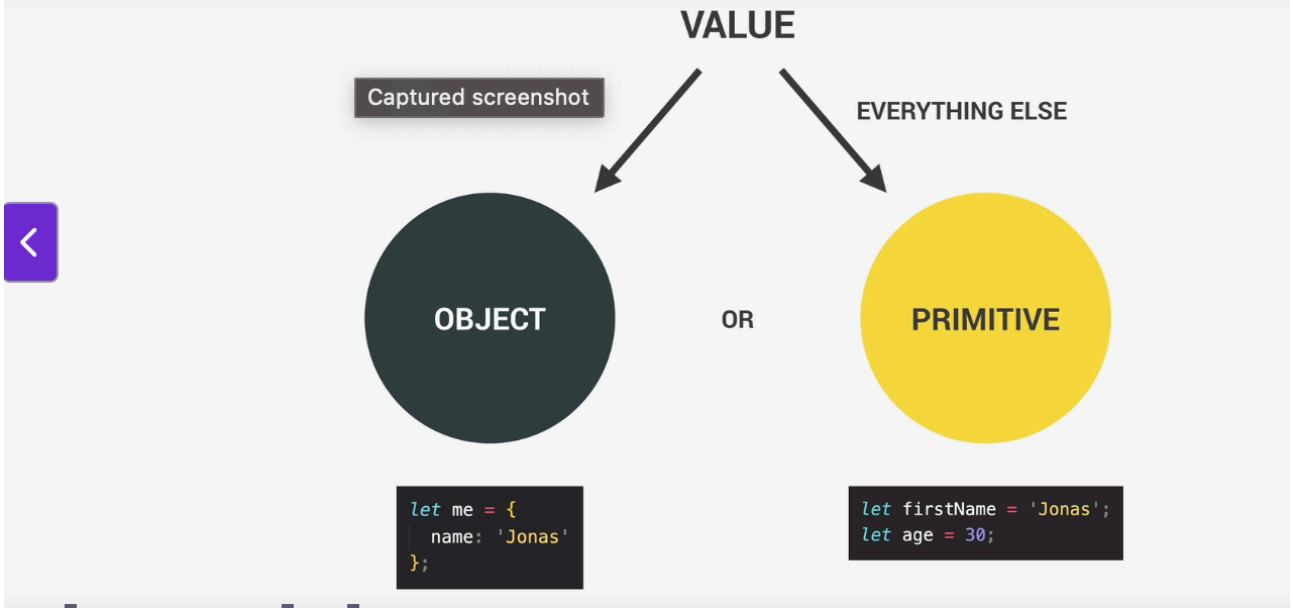
```
starter > JS script.js > ...
1   let js = 'amazing';
2
3   console.log(40 + 8 + 23 - 10);
4
5
6
7
8   let firstName = "Benish";
9   console.log(firstName);
```

Descriptive way writing and constant value examples:

```
let person = "jonas";
let PI = 3.1415;

let myFirstJob = 'Programmer';
let myCurrentJob = 'Teacher';
```

11. Data Types

OBJECTS AND PRIMITIVES



THE 7 PRIMITIVE DATA TYPES

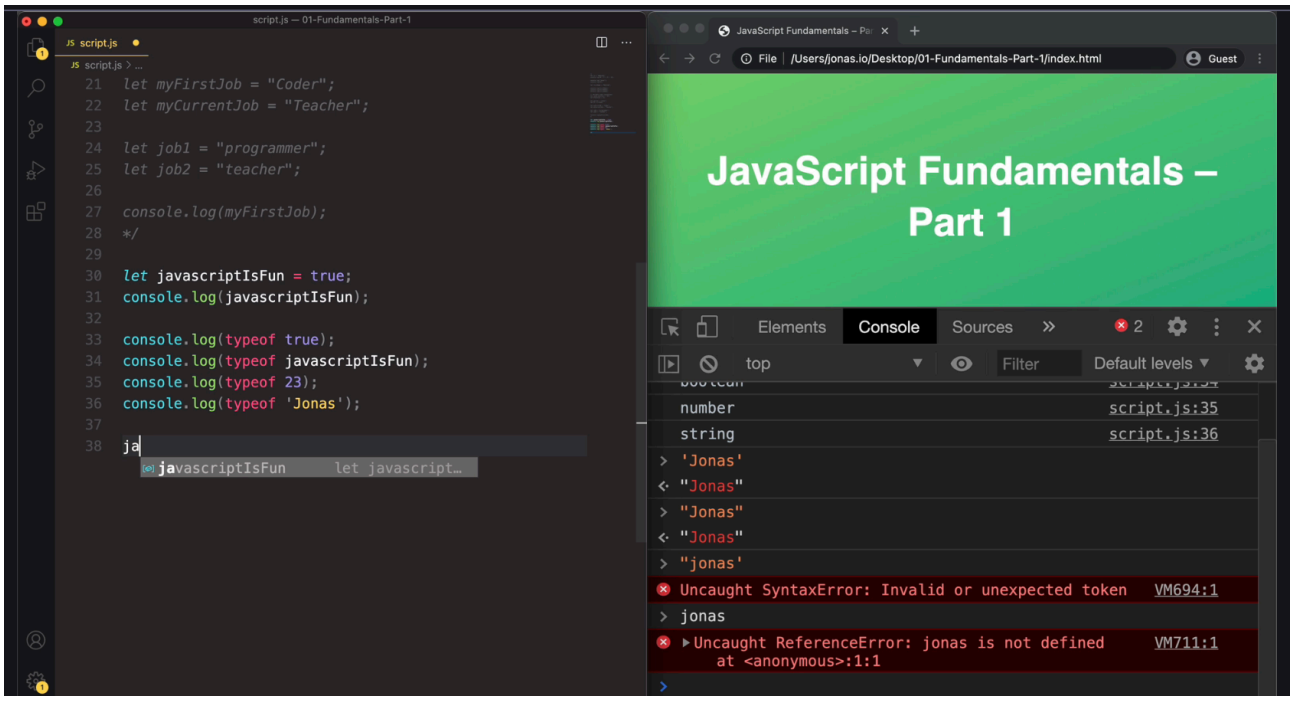
Captured screenshot

1. **Number:** Floating point numbers 👉 Used for decimals and integers `let age = 23;`
2. **String:** Sequence of characters 👉 Used for text `let firstName = 'Jonas';`
3. **Boolean:** Logical type that can only be `true` or `false` 👉 Used for taking decisions `let fullAge = true;`
4. **Undefined:** Value taken by a variable that is not yet defined ('empty value') `let children;`
5. **Null:** Also means 'empty value'
6. **Symbol (ES2015):** Value that is unique and cannot be changed *[Not useful for now]*
7. **BigInt (ES2020):** Larger integers than the Number type can hold

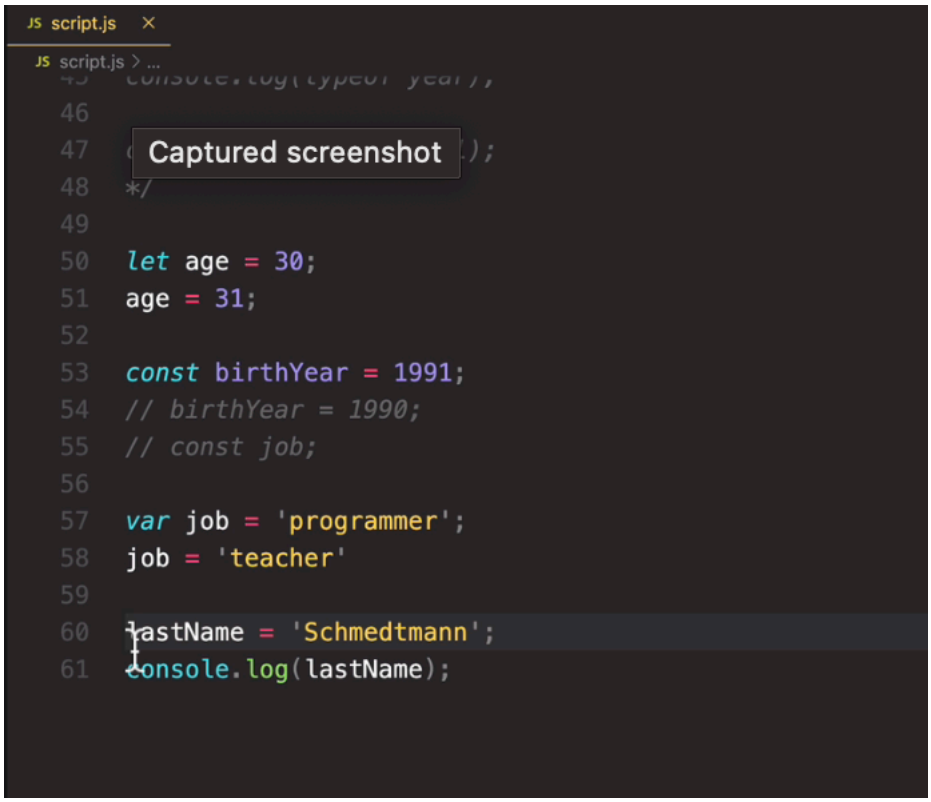
☝ **JavaScript has dynamic typing:** We do ***not*** have to manually define the data type of the value stored in a variable. Instead, data types are determined **automatically**.

Value has type, NOT variable!

Type of in js syntax:



Var, const, let :



Assignment operators and math operators:

```
// Math operators
const now = 2037;
const ageJonas = now - 1991;
const ageSarah = now - 2018;
console.log(ageJonas, ageSarah);

console.log(ageJonas * 2, ageJonas / 10, 2 ** 3);
// 2 ** 3 means 2 to the power of 3 = 2 * 2 * 2

const firstName = 'Jonas';
const lastName = 'Schmedtmann';
console.log(firstName + ' ' + lastName);

// Assignment operators
let x = 10 + 5; // 15
x += 10; // x = x + 10 = 25
x *= 4; // x = x * 4 = 100
x++; // x = x + 1
```

Comparison operator :

```
// Comparison operators
console.log(ageJonas > ageSarah); // >, <, >=, <=
console.log(ageSarah >= 18);

const isFullAge = ageSarah >= 18;

console.log(now - 1991 > now - 2018);
```

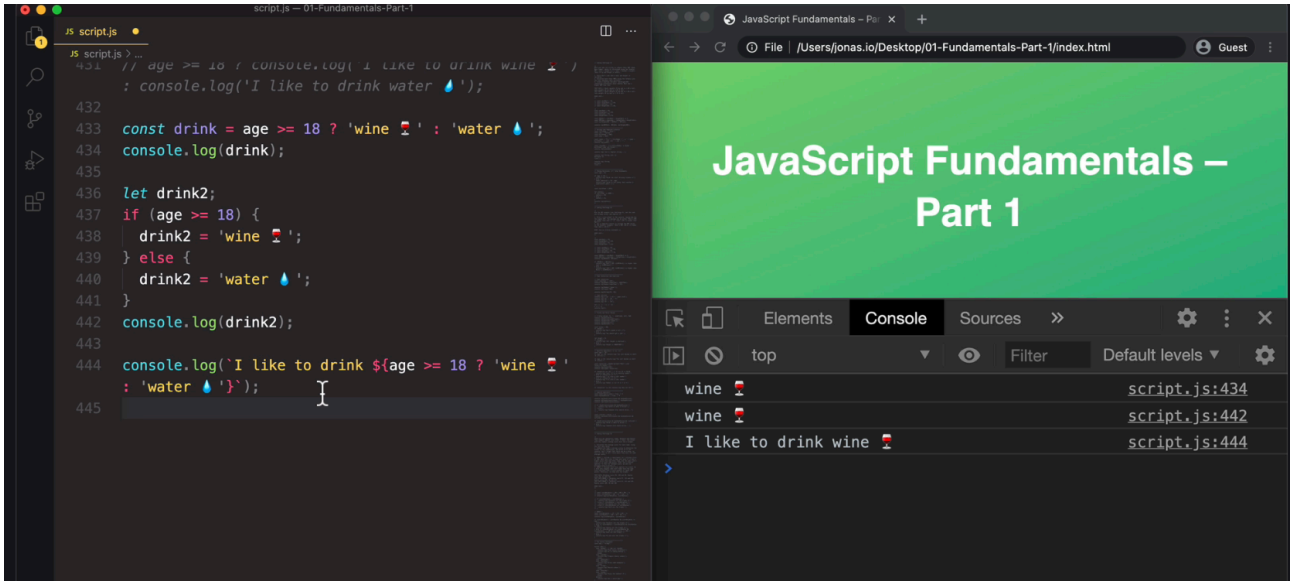
Templates of normal and with back text :

```
const jonas = "I'm " + firstName + ', a ' + (year -
birthYear) + ' year old ' + job + '!';
console.log(jonas);

const jonasNew = `I'm ${firstName}, a ${year -
birthYear} year old ${job}!`;
console.log(jonasNew);

console.log(`Just a regular string...`);
```

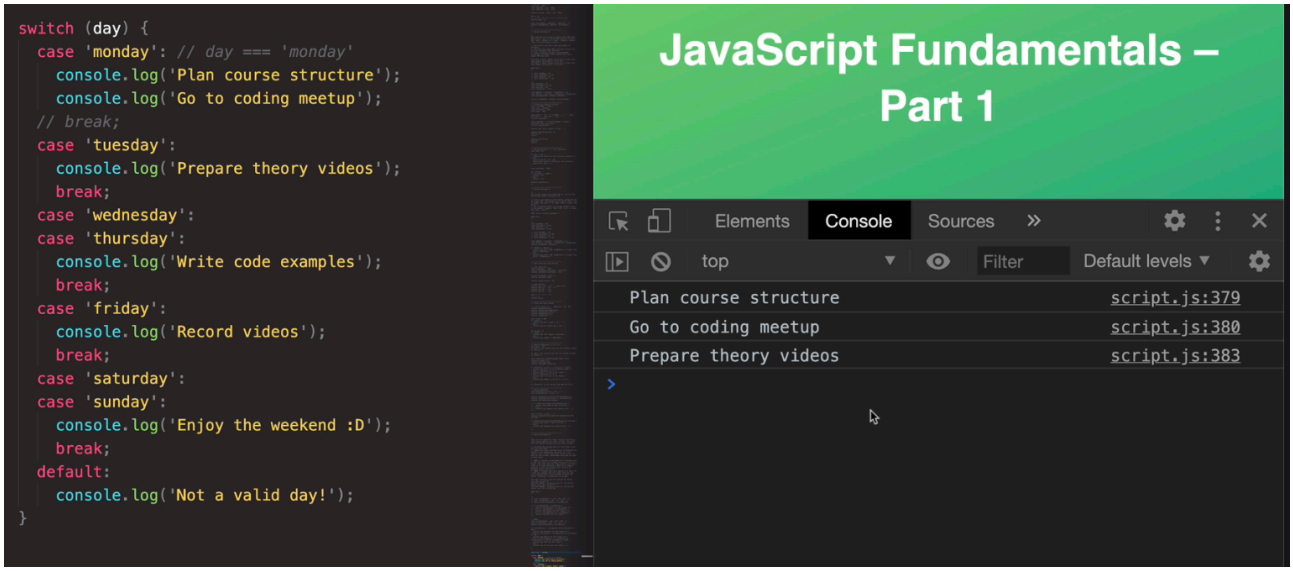
If Else Template :

```
const age = 14;
const isOldEnough = age >= 18;

if (age >= 18) {
    console.log(`You are ${age} so you are allowed to drive`);
} else {
    console.log(`Your age of ${age} which does'nt meets the requirement on driving age of ${isOldEnough}, s
};
```

Conditional Ternary operator:



Switch and case :



02/05/2025
Functions

```
function logger() {
    console.log('My name is Jascar');
}

logger();


function fruitProcessor(apples, oranges) {
    console.log(`apples: ${apples}, oranges: ${oranges}`);
    const juice = `Juice with ${apples} apples and ${orang
    return juice;
}

const appleJuice = fruitProcessor(5, 0);
console.log(appleJuice);

const appleOrangeJuice = fruitProcessor(2, 4);
console.log(appleOrangeJuice);
```

FUNCTIONS REVIEW: 3 DIFFERENT FUNCTION TYPES

- **Function declaration**

  Function that can be used before it's declared

- **Function expression**

  Essentially a function *value* stored in a variable

- **Arrow function**

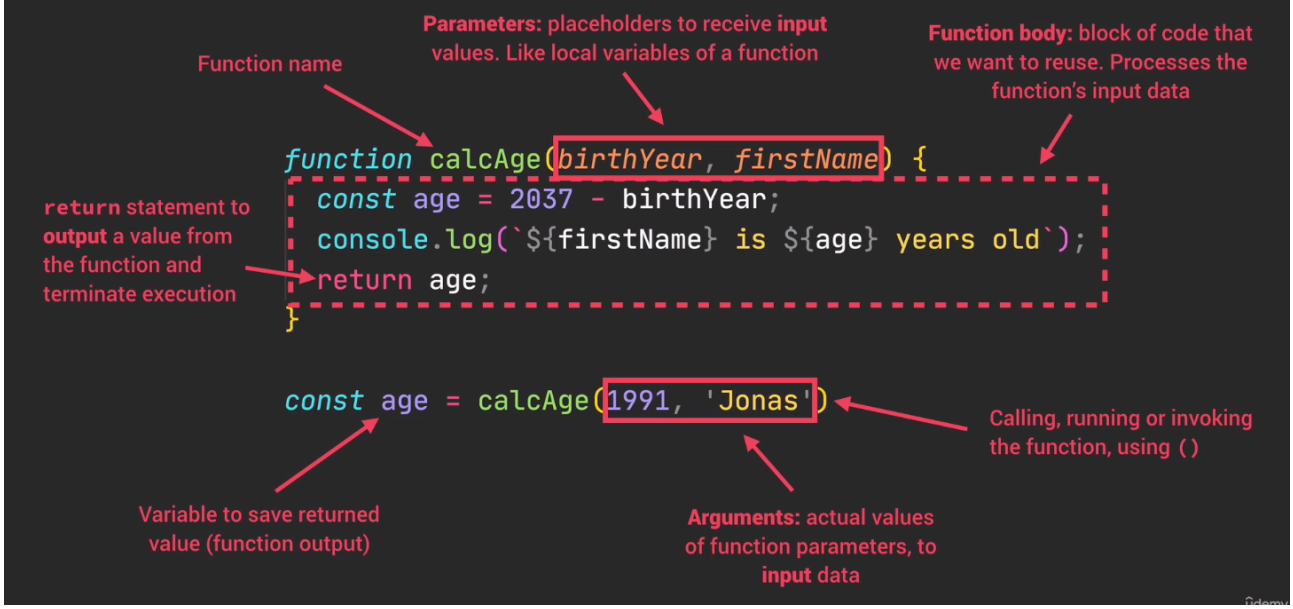
  Great for a quick one-line functions. Has no `this` keyword (more later...)

```
function calcAge(birthYear) {
  return 2037 - birthYear;
}

const calcAge = function (birthYear) {
  return 2037 - birthYear;
};

const calcAge = birthYear => 2037 - birthYear;
```

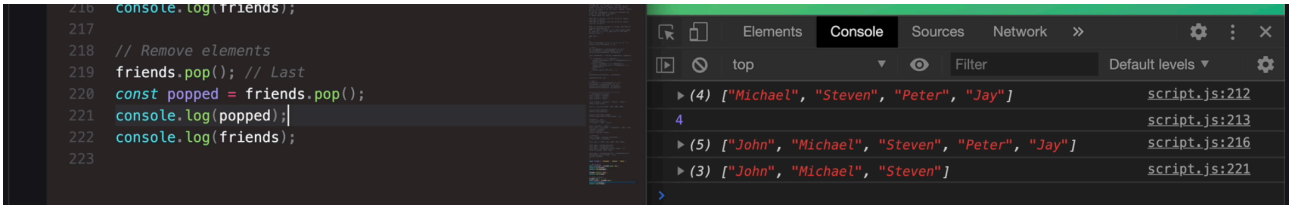
Captured screenshot

And finally, we have arrow functions

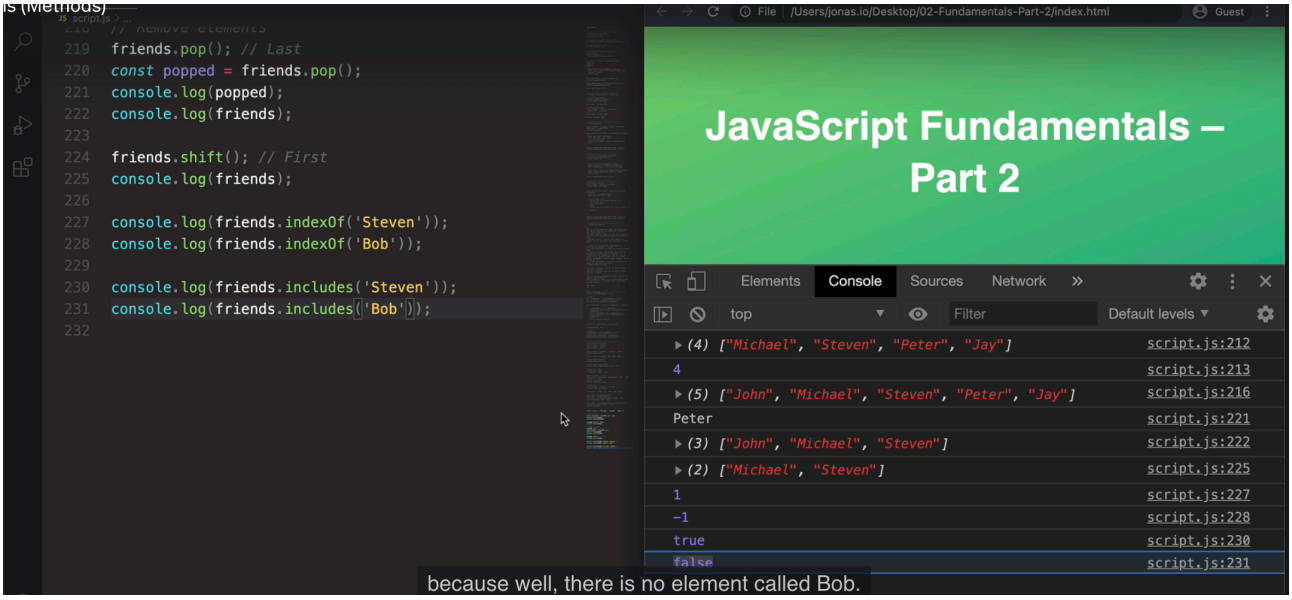
FUNCTIONS REVIEW: ANATOMY OF A FUNCTION

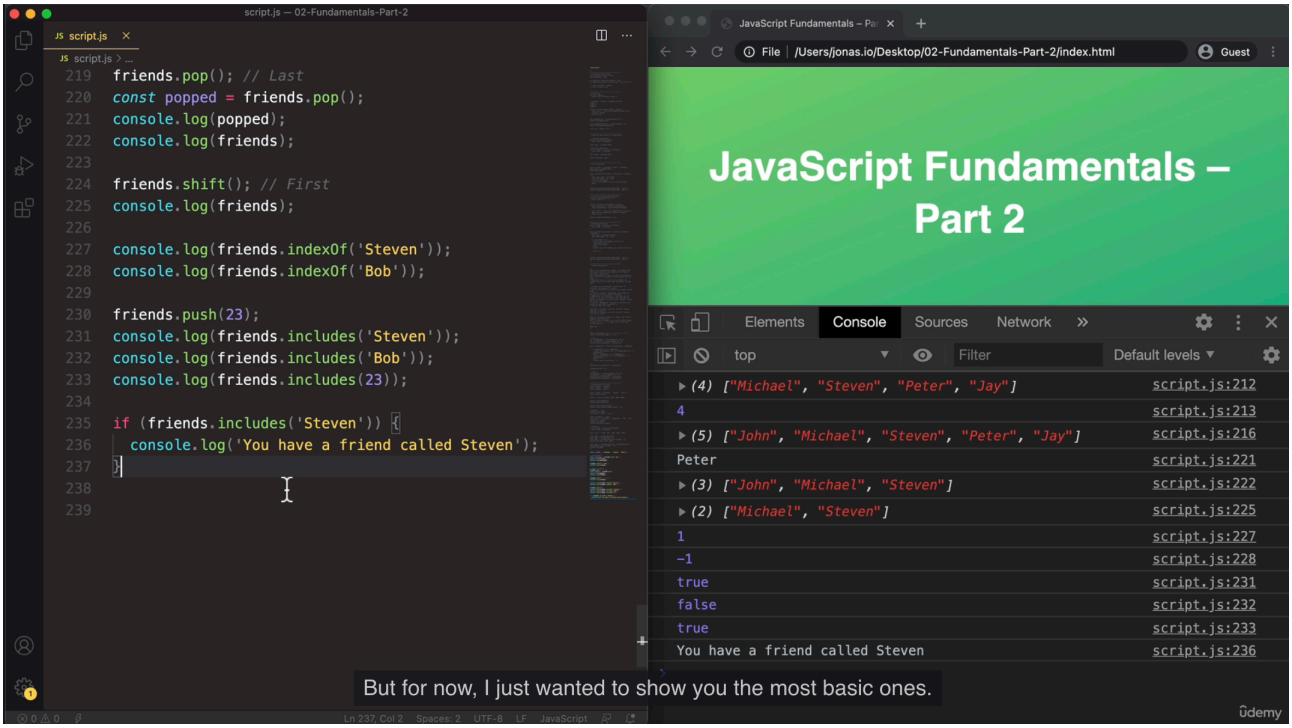


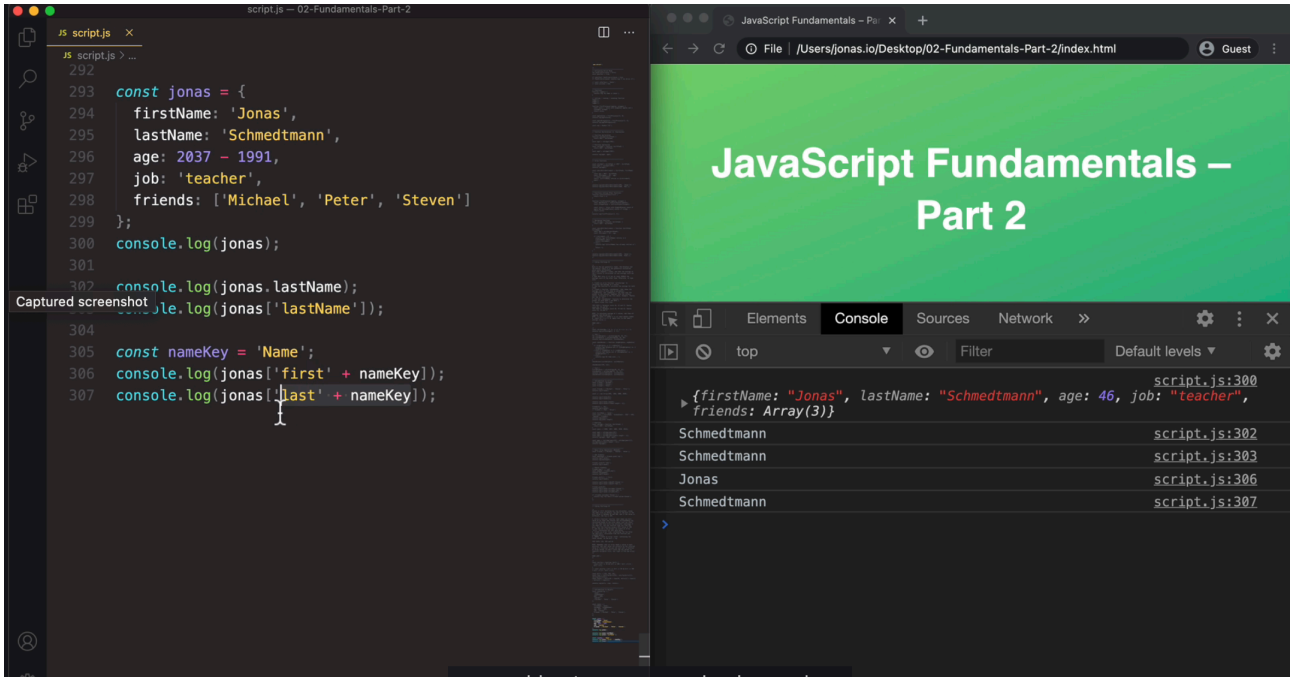
04/05/2025
Arrays and objects



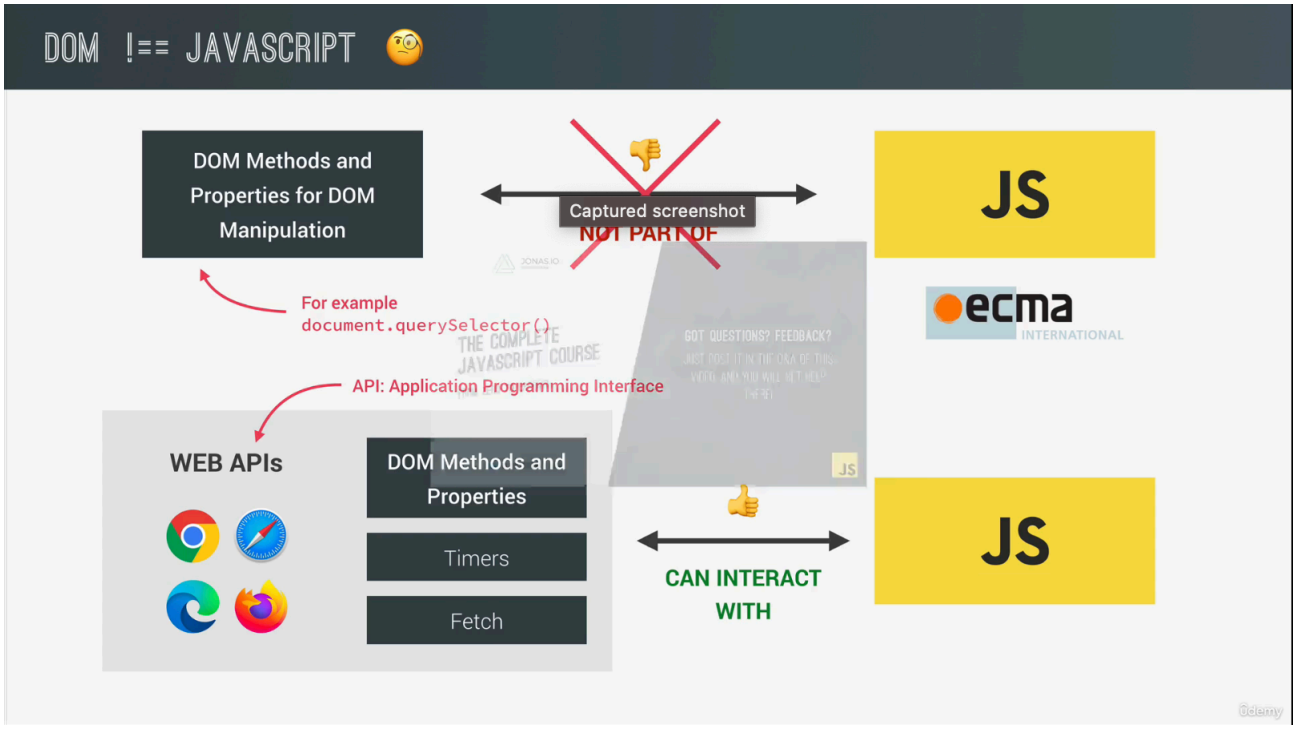
Remove elements in the array:

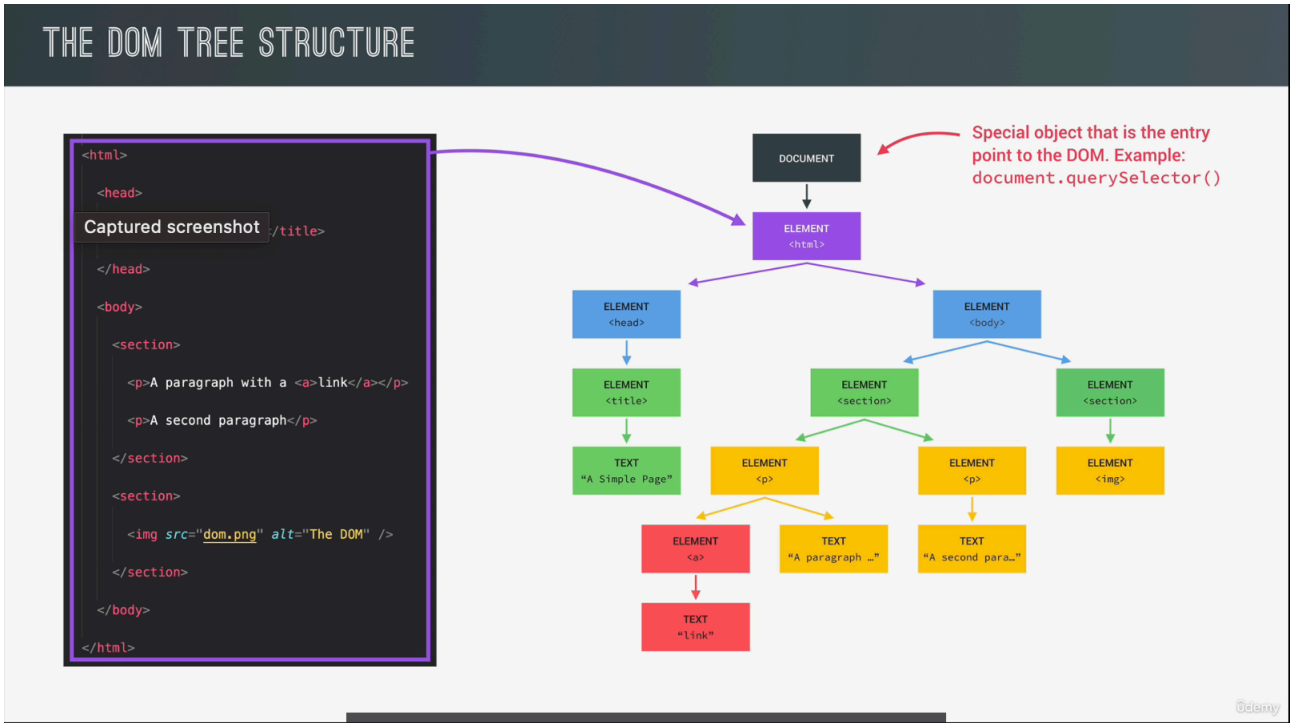






DOM Elements :

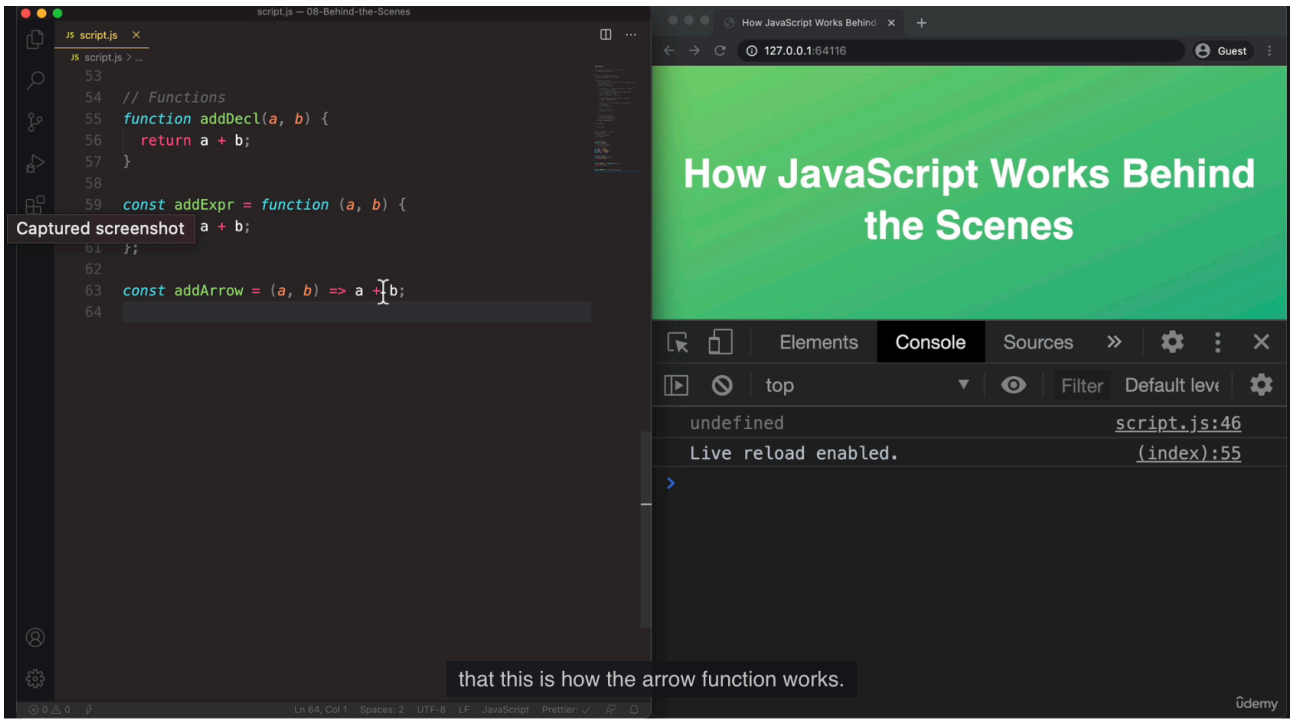




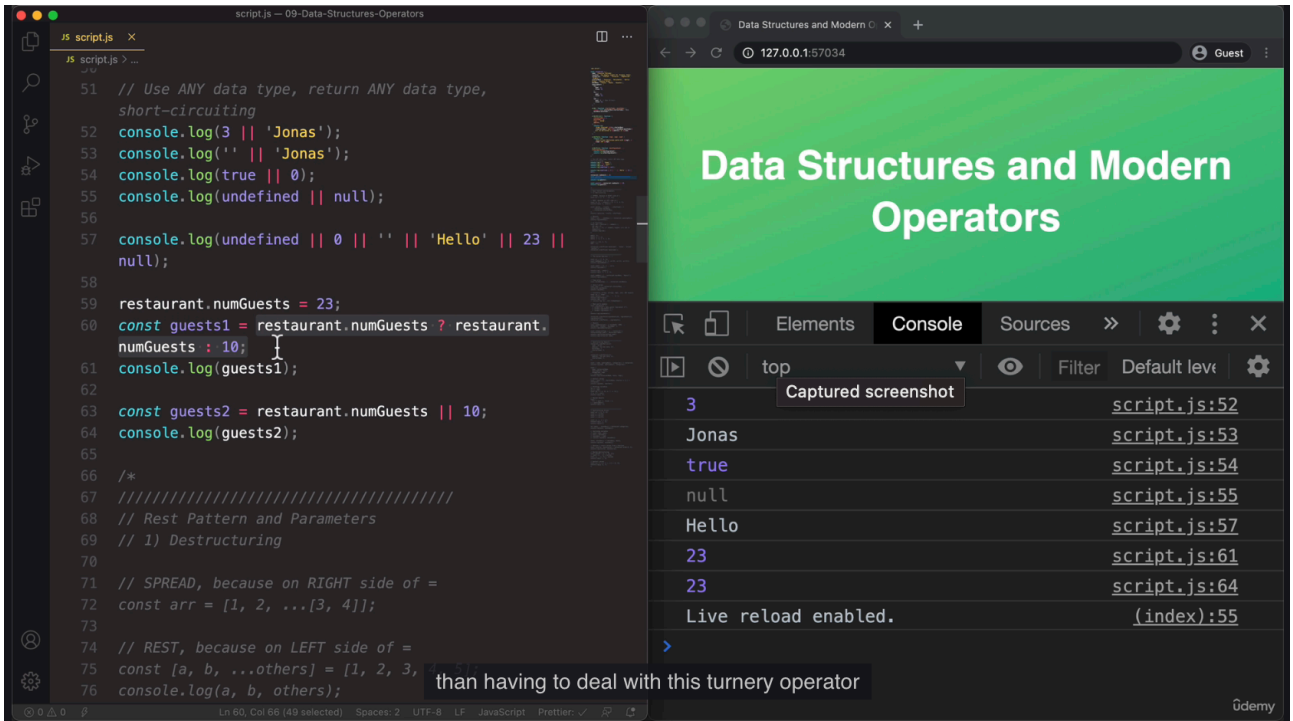

```
'use strict';

console.log(document.querySelector('.message').textContent);

document.querySelector('.message').textContent = 'Correct Number!';

document.querySelector('.number').textContent = 13;
document.querySelector('.score').textContent = 20;
```

12/05/2025

Different types of functions :



Short-circuiting using OR logic:



OR operator:

```
const rest1 = {
  name: 'Capri',
  numGuests: 20,
};

const rest2 = {
  name: 'La Piazza',
  owner: 'Giovanni Rossi',
};

rest1.numGuests = rest1.numGuests || 10;
rest2.numGuests = rest2.numGuests || 10;

rest1.numGuests ||= 10;
rest1.numGuests ||= 10;

console.log(rest1);
console.log(rest2);
```

Nullish operator:

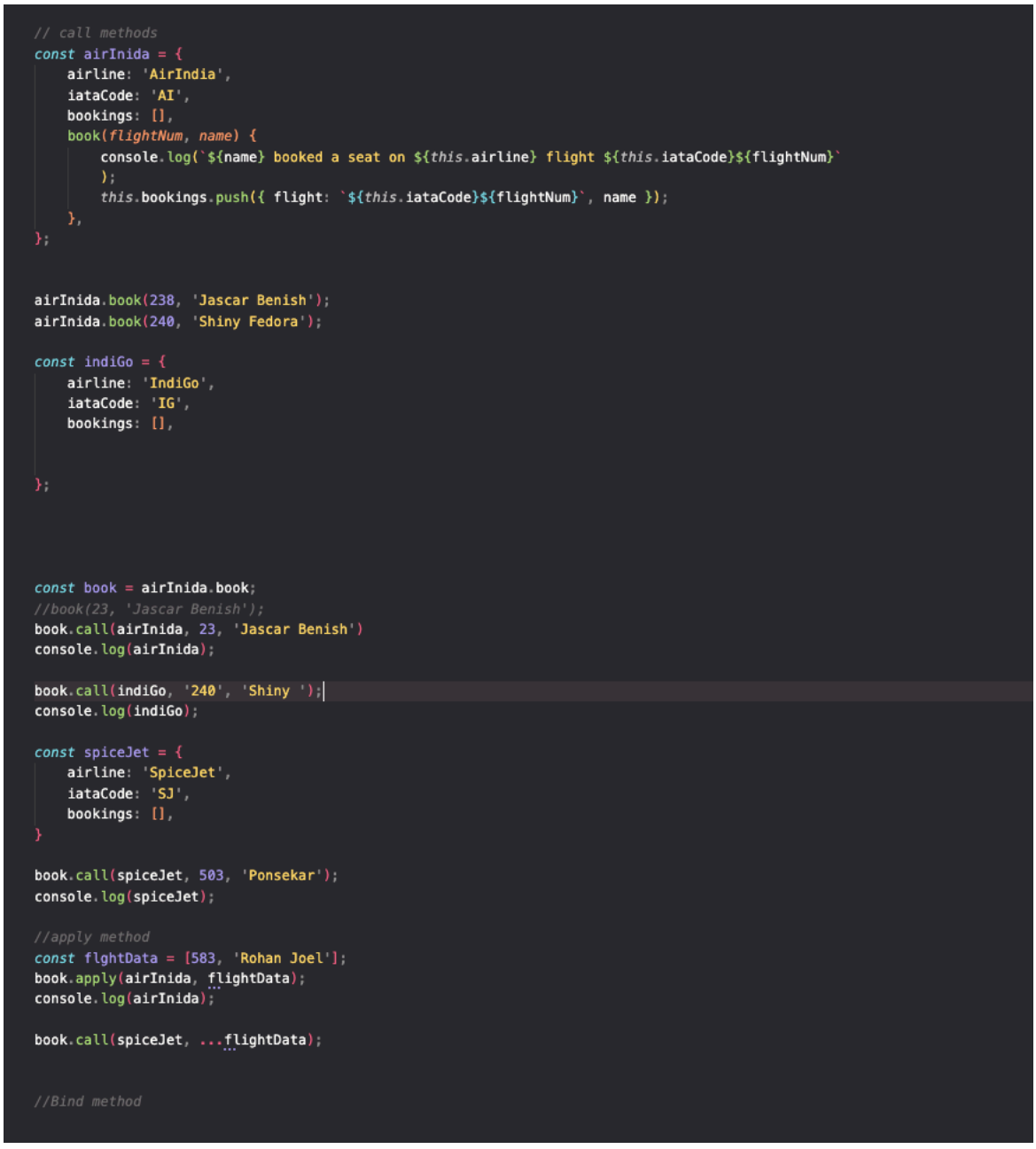
```
const rest1 = {
  name: 'Capri',
  // numGuests: 20,
  numGuests: 0,
};

const rest2 = {
  name: 'La Piazza',
  owner: 'Giovanni Rossi',
};

// OR assignment operator
// rest1.numGuests = rest1.numGuests || 10;
// rest2.numGuests = rest2.numGuests || 10;
// rest1.numGuests ||= 10;
// rest2.numGuests ||= 10;

// nullish assignment operator (null or undefined)
rest1.numGuests ??= 10;
rest2.numGuests ??= 10;

console.log(rest1);
console.log(rest2);
```

```
// AND assignment operator
// rest1.owner = rest1.owner && '<ANONYMOUS>';
// rest2.owner = rest2.owner && '<ANONYMOUS>';
rest1.owner &&= '<ANONYMOUS>';
rest2.owner &&= '<ANONYMOUS>';

console.log(rest1);
console.log(rest2);
```

Working with strings :

13/05/2025 & 14/05/2025 Functions and API calls

Call functions :



```
// call methods
const airInida = {
    airline: 'AirIndia',
    iataCode: 'AI',
    bookings: [],
    book(flightNum, name) {
        console.log(`${name} booked a seat on ${this.airline} flight ${this.iataCode}${flightNum}`
        );
        this.bookings.push({ flight: `${this.iataCode}${flightNum}`, name });
    },
};


airInida.book(238, 'Jascar Benish');
airInida.book(240, 'Shiny Fedora');

const indiGo = {
    airline: 'IndiGo',
    iataCode: 'IG',
    bookings: [],


};




const book = airInida.book;
//book(23, 'Jascar Benish');
book.call(airInida, 23, 'Jascar Benish')
console.log(airInida);

book.call(indiGo, '240', 'Shiny ');
console.log(indiGo);

const spiceJet = {
    airline: 'SpiceJet',
    iataCode: 'SJ',
    bookings: [],
}

book.call(spiceJet, 503, 'Ponsekar');
console.log(spiceJet);

//apply method
const flghtData = [583, 'Rohan Joel'];
book.apply(airInida, flightData);
console.log(airInida);

book.call(spiceJet, ...flightData);


//Bind method
```