



Welcome to the Live Coding Session

Let's have some fun with code



DCI / Exploring HTML, CSS, and JavaScript: Building Interactive Web Experiences

Presentation link <https://tinyurl.com/dci-livecode-pdf>

Coding from scratch <https://tinyurl.com/dci-livecode>

The final code <https://tinyurl.com/dci-animation>



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DCI / Introduction to HTML, CSS, and JavaScript



HTML (Hypertext Markup Language) is the standard markup language for creating web pages and web applications.



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DCI / Introduction to HTML, CSS, and JavaScript

HTML



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CSS



CSS (Cascading Style Sheets) is a style sheet language used for describing the presentation and appearance of a document written in HTML.



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JS



JavaScript is a programming language that adds interactivity and behavior to web pages.



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/ HTML – Hypertext Markup Language

- HTML is the standard markup language for creating web pages and web applications.



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- HTML is the standard markup language for creating web pages and web applications.
- HTML uses tags to define different elements such as headings, paragraphs, lists, images, links, forms, and more.



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/ HTML – Hypertext Markup Language

- HTML is the standard markup language for creating web pages and web applications.
- HTML uses tags to define different elements such as headings, paragraphs, lists, images, links, forms, and more.
- HTML documents are structured using a hierarchical format called the Document Object Model (DOM).



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/ HTML – Hypertext Markup Language

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
</head>
```

```
<body>
```

```
<p>My first paragraph.</p>
```

```
</body>
```

```
</html>
```

This is the document type declaration, also known as the doctype.



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The `<html>` element serves as the root element of the HTML document.

The `<head>` element contains meta-information about the document,

The `<body>` element represents the visible content of the webpage.





/ CSS (Cascading Style Sheets)

- CSS is a style sheet language used to define the visual presentation of an HTML document.



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- CSS selectors are used to target specific HTML elements for styling.



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- CSS selectors are used to target specific HTML elements for styling.
- Styles can be defined inline within HTML tags, embedded in the `<style>` tag within the `<head>` section, or in external CSS files.



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- CSS selectors are used to target specific HTML elements for styling.
- Styles can be defined inline within HTML tags, embedded in the `<style>` tag within the `<head>` section, or in external CSS files.
- CSS allows for advanced features like animations, transitions, and responsive design with media queries.



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/ Let's Write HTML Code Together

Let's add a heading to our webpage. Inside the **<body>** tags, type:

Learn for a new life

```
HTML
1
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <title>
6       Live coding with DCI
7     </title>
8   </head>
9   <body>
10    <h3>Learn for a new life</h3>
11  </body>
12 </html>
```



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/ Let's Write HTML Code Together

Now let's add a container element to **<div>**. Inside the **<body>** tags

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```
HTML 34 unsaved changes X
1
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <title>
6   Live coding with DCI
7 </title>
8 </head>
9 <body>
10 <h3>Learn for a new life</h3>
11 <div>
12
13 </div>
14 </body>
15 </html>
```



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/ Let's Write HTML Code Together

Adding Super Mario icon inside our **<div>**

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HTML

```
20 </head>
21 <body>
22 <h3>Learn for a new life</h3>
23 <div>
24   <i class="nes-mario"></i>
25 </div>
26 </body>
27 </html>
```



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/ Let's Write HTML Code Together

Let's Style our **<div>**.

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```
HTML
6   Live coding with DCI
7   </title>
8   <style>
9   div{
10      width: 100%;
11      height: 450px;
12      border-top: 10px solid red;
13      border-bottom: 10px solid red;
14      padding: 10px;
15      margin-top: 10px;
16      position: relative;
17      background:
18      url(https://raw.githubusercontent.com/Shiar0s/DCI-LiveCode/main/city.png);
19   }
20   </style>
21   <body>
22   <h3>Learn for a new life</h3>
23   <div>
24     <i class="nes-mario"></i>
25   </div>
26 </body>
```



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/ Let's Write HTML Code Together

Adding some animations.

```
<style>
  div{
    width: 100%;
    height: 450px;
    border-top: 10px solid red;
    border-bottom: 10px solid red;
    padding: 10px;
    margin-top: 10px;
    position: relative;
    background:
url(https://raw.githubusercontent.com/Shiar0s/DCI-LiveCode/main/city.png);
    animation: move-city 10s linear;
    animation-iteration-count: infinite;
  }
  @keyframes move-city {
    0%      {background-position: 0 0;}
    100%    {background-position: -2937px 0;}
  }
</style>
```



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/ Let's Write HTML Code Together

Animate Super Mario

```
i{  
    position: absolute;  
    top: 30px;  
    left: 50px;  
    animation:  
    mario-jump 1.5s 3s alternate;  
    animation-iteration-count: infinite;  
}  
  
@keyframes mario-jump{  
    from {top: 0px;}  
    to   {top: 60px;}  
}
```



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/ Let's Write HTML Code Together

Adding one more animation to the same item

```
if{
    position: absolute;
    top: 30px;
    left: 50px;
    animation:
        mario-jump 1.5s 3s alternate,
        come-fast 10s linear;
    animation-iteration-count: infinite;
}
@keyframes come-fast {
    0% {left: -100px; top: 0px; transform: rotate(0);}
    25% {left: 20px; top: 30px; transform: rotate(0);}
    50% {left: 50%; top: 50%; transform: rotate(90deg);}
    75% {left: 75%; top: 30%; transform: rotate(99990deg);}
    100% {left: 100%; top: 0px; transform: rotate(0);}
}
```



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DCI / Let's try to add some JavaScript

```
.dark-mode {  
    background-color: black;  
    color: white;  
}  
</style>  
<script>  
    document.body.onkeyup = function(e){  
        if(e.keyCode == 32){  
            var element = document.body;  
            element.classList.toggle("dark-mode");  
        }  
    }  
</script>
```

