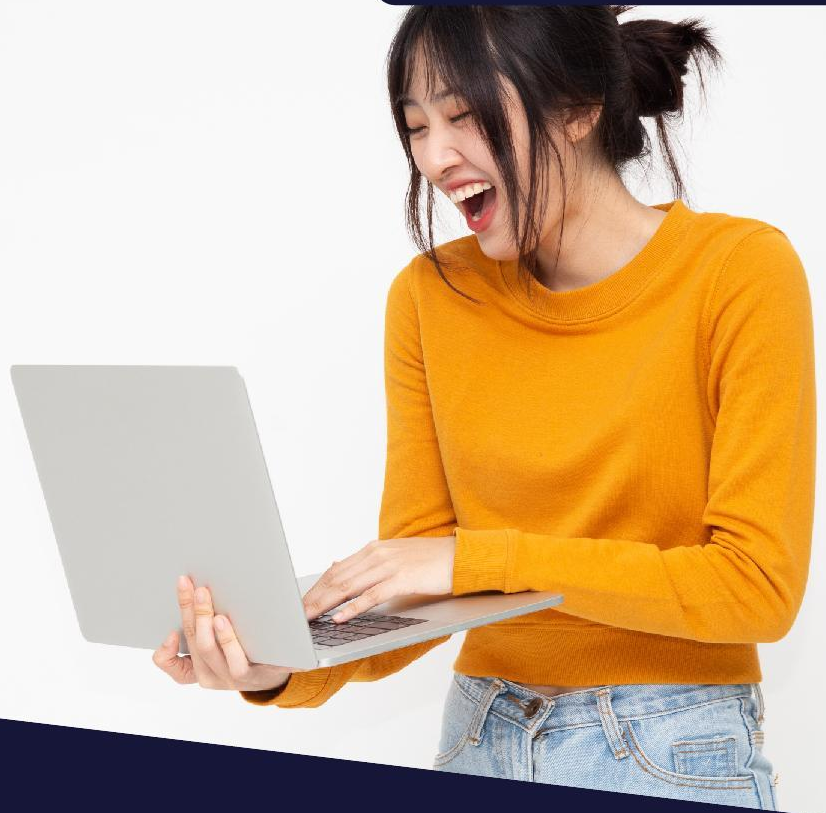
Digital Career Institute

LEARN FOR **A NEW LIFE.**

Welcome to the Live Coding Session

Let’s have some fun with code



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

Presentation link https://tinyurl.com/dci-livecode-slides

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

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

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

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

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

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HTML - Hypertext Markup Language

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- 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).

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

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

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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.

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

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Live coding with DCI
    </title>
  </head>
  <body>
    <h3>Learn for a new life</h3>
  </body>
</html>
```

Let's Write HTML Code Together

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

Learn for a new life

```
HTML  34 unsaved changes

<!DOCTYPE html>
<html>
  <head>
    <title>
      Live coding with DCI
    </title>
  </head>
  <body>
    <h3>Learn for a new life</h3>
    <div>

    </div
  </body>
</html>
```

Let's Write HTML Code Together

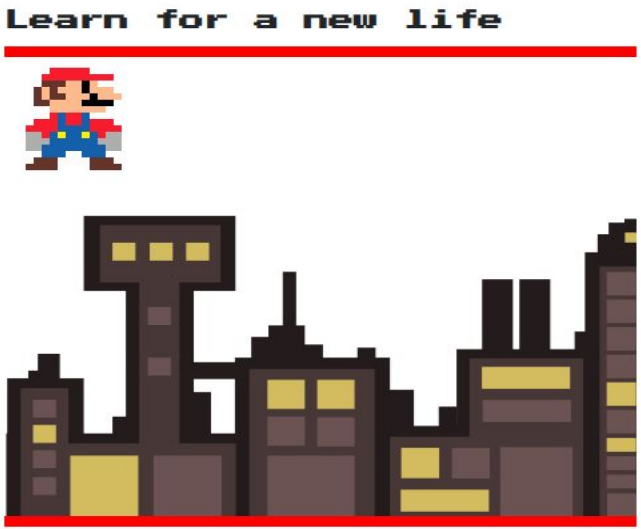
Adding Super Mario icon inside our **‹div›**

Learn for a new life

```
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>
```

Let's Write HTML Code Together

Let's Style our **‹div›.**




```
HTML
      Live coding with DCI
    </title>
  <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/ShiarOs/DCI-
LiveCode/main/city.png);
        }
    </style>
  </head>
  <body>
    <h3>Learn for a new life</h3>
    <div>
      <i class="nes-mario"></i>
    </div>
```

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/ShiarOs/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>
```

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;}
    }
```

Let's Write HTML Code Together

Adding one more animation to the same item

```
i{
        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);}
    }
```

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>
```