



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





Introduction to HTML, CSS, and JavaScript

HTML



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





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C55



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ZL



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







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 HTML uses tags to define different elements such as headings, paragraphs, lists, images, links, forms, and more.



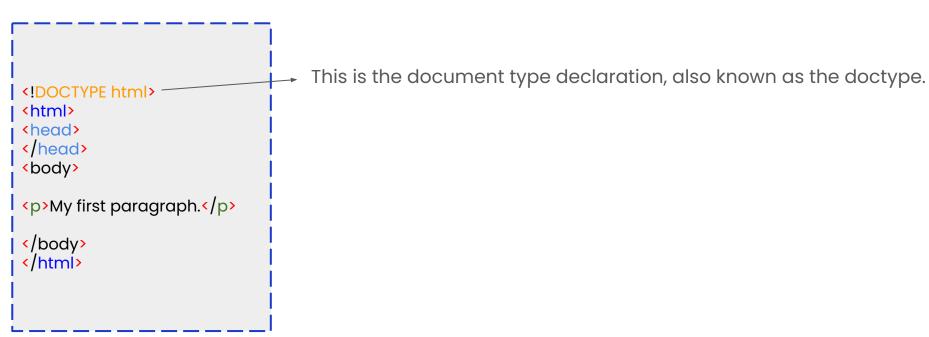


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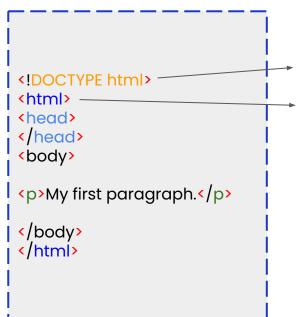
- HTML uses tags to define different elements such as headings, paragraphs, lists, images, links, forms, and more.
- HTML documents are structured using a hierarchical format called the Document Object Model (DOM).







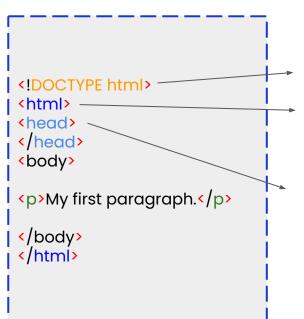




This is the document type declaration, also known as the doctype.

The **html** element serves as the root element of the HTML document.



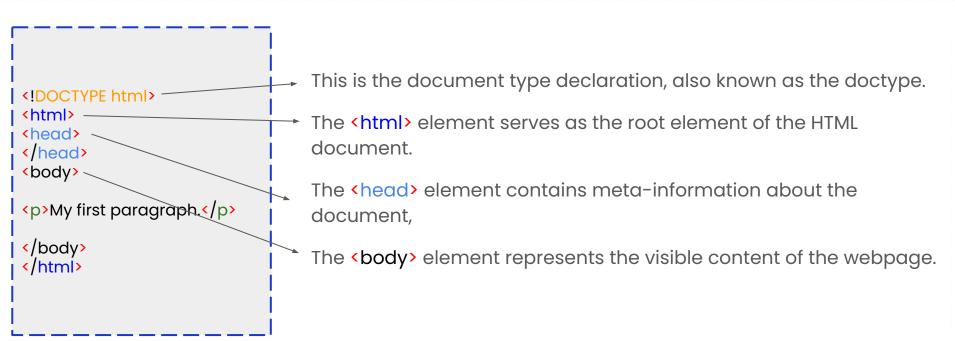


This is the document type declaration, also known as the doctype.

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

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







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CSS allows for advanced features like animations, transitions, and responsive design with media queries.



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

Learn for a new life

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

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

Learn for a new life

```
MHTML
        34 unsaved changes X
   <!DOCTYPE html>
      <title>
      Live coding with DCI
       </title>
       <h3>Learn for a new life</h3>
     </body>
```

Adding Super Mario icon inside our **div**

Learn for a new life



```
M HTML
     </head>
     <body>
       <h3>Learn for a new life</h3>
       <div>
       <i class="nes-mario"></i></i>
     </div>
     </body>
   </html>
```



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

```
Learn for a new life
```

```
// HTML
       Live coding with DCI
              border-top: 10px solid red;
              border-bottom: 10px solid red;
  url(https://raw.githubusercontent.com/ShiarOs/DCI-
       <h3>Learn for a new life</h3>
        <i class="nes-mario"></i>
```

Adding some animations.

```
<style>
      div{
            border-top: 10px solid red;
            border-bottom: 10px solid red;
            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 {
                    {background-position: 0 0;}
                    {background-position: -2937px 0;}
    </style>
```

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;}
```

Adding one more animation to the same item

```
1{
       position: absolute;
       top:30px;
       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);}
```



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>
```