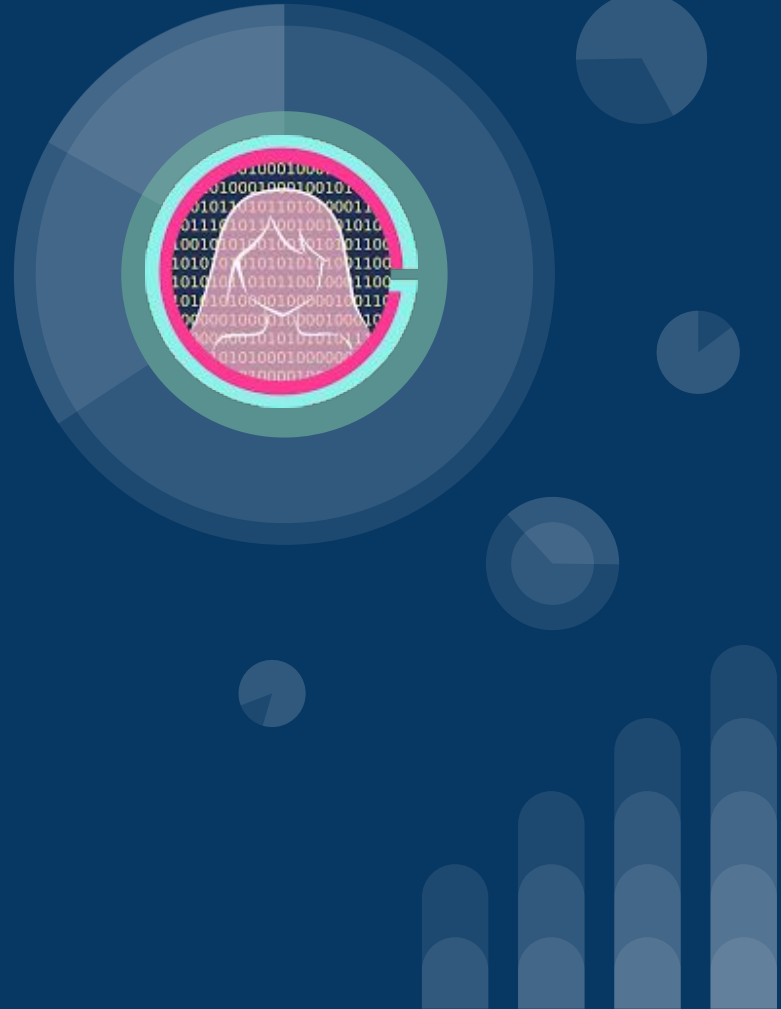


# HTML Lecture 4

Code Girls 2020-21



# HTML Multimedia

- These are the aspects of the website that you can see and hear
  - Images
  - Music/Sounds
  - Videos
  - Animations
- They make a page more interactive and interesting



## Image Review

- HTML images are defined with the `<img>` tag. The source file (`src`), alternative text (`alt`), width, and height are provided as attributes:
- ``





## Audio

```
<audio controls>
```

```
  <source src="horse.ogg" type="audio/ogg">
```

```
  <source src="horse.mp3" type="audio/mpeg">
```

Your browser does not support the audio element.

```
</audio>
```

```
</body>
```

```
</html>
```



# Audio

- The controls attribute adds audio controls, like play, pause, and volume.
- The <source> element allows you to specify alternative audio files which the browser may choose from. The browser will use the first recognized format.
- The text between the <audio> and </audio> tags will only be displayed in browsers that do not support the <audio> element.





## Videos

```
<video width="400" controls>
```

```
  <source src="mov_bbb.mp4"; type="video/mp4">
```

```
  <source src="mov_bbb.ogv"; type="video/ogg">
```

Your browser does not support HTML video.

```
</video>
```



# Videos

- The controls attribute adds video controls, like play, pause, and volume.
- It is a good idea to always include width and height attributes. If height and width are not set, the page might flicker while the video loads.
- The `<source>` element allows you to specify alternative video files which the browser may choose from. The browser will use the first recognized format.
- The text between the `<video>` and `</video>` tags will only be displayed in browsers that do not support the `<video>` element.





## Youtube

- Easy solution is to let YouTube play the videos in your web page
- YouTube will display an id (like `tgbNymZ7vqY`), when you save (or play) a video that can be referred to
- You can let your video start playing automatically by adding `autoplay=1` to the YouTube URL
- Add `mute=1` after `autoplay=1` to let your video start playing automatically (but muted)







# Youtube

```
<iframe width="420" height="345"  
src="https://www.youtube.com/embed/tgbNymZ7vqY">
```

```
</iframe>
```

-----

```
<iframe width="420" height="345"  
src="https://www.youtube.com/embed/tgbNymZ7vqY?autoplay=1&mute  
=1">
```

```
</iframe>
```

# Okay, where are we now?

- We have covered HTML
- We have learned among other things
  - Headings, paragraphs, and text
  - Styling text on a page (basic)
  - Links
  - Multimedia
  - Forms
  - Lists
  - Tables
- Looking to the future
  - CSS
  - Javascript



# CSS

- Cascading Style Sheets
- Format the layout of a webpage = make it pretty
- We have already taught you a bit of CSS within HTML
  - Color
  - Font/Size
  - Spacing + positioning
  - Background images
  - Background colors
  - Different display sizes



```
body {  
  font: x-small;  
  background: #  
  color: black;  
  margin: 0;  
  padding: 0;
```

# Javascript

- JavaScript makes HTML pages more dynamic and interactive = make your website work
- HTML `<script>` tag has script statements, or it points to an external script file through the `src` attribute.
- Common uses:
  - Image manipulation
  - Form validation
  - Dynamic changes of content

```
<body>
  <h4 id="greeting" >Test</h4>
  <script>
    var dt = new Date().getHours();
    if (dt >= 0 && dt <= 11){
      document.getElementById("greeting").innerHTML='Good Morning'
    }else if (dt >= 12 && dt <= 17){
      document.getElementById("greeting").innerHTML='Good Afternoon'
    }else {
      document.getElementById("greeting").innerHTML='Good Evening'
    }
  </script>
</body>
```

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