

Front End Development Diploma in CSF 2021/22 Semester 2	Week 2
	2 Hours
Embedded Elements	

Activities

Materials

- Download the following file from MEL :-
 - media.zip

Task 1: Using responsive images, video and audio

1. Create a new project in Visual Studio and name it as **Week2_Exercise**.
2. Add a new HTML page and name it as **index.html**.
3. Add a new folder named **media** into the project.
4. Download media.zip and unzip all files into the **media** folder.

***Note:** It is a good practice to store files of different types in separate folders and refer to them in the web page using relative referencing.*

5. Add meta tag for **author** and type your name as the value for content.
6. Add meta tag for **description** and type **“Using Embedded elements”** for content.
7. Add the link element to display the favicon HTMLBadge.ico.
8. View the file in browser and note the favicon and the title.
9. In the body, type **Week 2 Exercise** within <h1> tags.

Creating an anchor <a> tag

10. Type the following to create a hyperlink to Ngee Ann Polytechnic’s website.

```
<a href="http://www.np.edu.sg" target="_blank">Ngee Ann Polytechnic</a>
```

11. Save the file and view the page in browser and click on the link.

Notice that Ngee Ann Polytechnic’s page opens in a new tab as specified by target attribute.

Now let’s do the same using an image.

12. Within <h3> tags type “Creating a hyperlink to an image”.
13. Add an anchor tag as above but replace the link name with the following.

```

```

14. Save the file and view the page in browser and click on the image of NP crest.

Week 2 Exercise

[Ngee Ann Polytechnic](#)

Creating a hyperlink to an image



Responsive image

15. Type "Different size of the same image for different viewport sizes" within an <h3> element.
16. Type "This image will resize based on the viewport" within <p> tags.
17. Type the following element.

```

```

18. Save the file and view in browser. Resize the width of the browser and observe that the image resizes to fit to the width of the browser.

Using different images for different viewport sizes

The following example illustrates the effect on the size of the viewport using different images that will be displayed based on the width of the device.

19. Add the following heading within <h3> tags.

Different image files for different viewport sizes

20. Type the following within <p> tags.

This image will change based on the width of viewport

21. Add the following <picture> element.

```
<picture>
  <source media="(min-width: 650px)" srcset="media/img_pink_flowers.jpg">
  <source media="(min-width: 465px)" srcset="media/img_white_flower.jpg">
  
</picture>
```

Adding audio and video

22. Add an audio file to the web page showing the control. Add necessary statement to display if the audio element is not supported.
23. Add a video file to the webpage with a poster. Do not auto play and add necessary statement to display if the browser does not support the video element or the video file type.
24. Save the file and view in Browser.
25. Zipped the entire **Week2_Exercise** folder and submit in MEL submission.
(Zip filename format as instructed in ppt slides)

== End of Worksheet ==