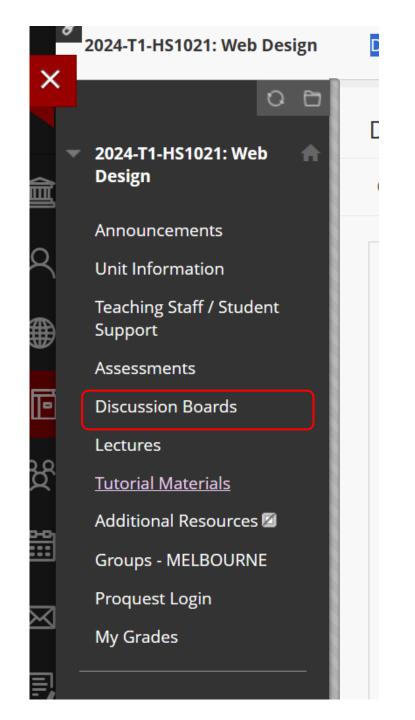
Week 3 – Web Design – Sydney Campus

HOLMES INSTITUTE

- 1. Summary of Lecture 2
- 2. Tutorial Week 3
- 3. More Practical Examples
- 4. Attendance & Tutorial Questions Recognising student participation and engagement specifically identifying those who are most actively involved!
- 5. Key assessment dates

Lecturer/Tutor: Dr. Farshid Keivanian



Week 2 & 3 - Lab 1 -Sydney Greeting, Students!

Happy Learning,

0

Farshid

Tutor_Week2_Web Design.pdf

Tutor_Week3_Web Design.pdf

1. Summary of Lecture 2

- Lecture 2 of HS1021 for Trimester 1, 2021, covers the basics of HTML and web design. The lecture aims to equip students with the foundational skills to:
- Define a project plan Emphasizing the importance of understanding customer expectations and goals for the website, including its objectives, target audience, type, budget, and timeline.
- Create wireframes and storyboards Introducing the concepts of wireframes and storyboards to outline web page components, their layout, and the links between web pages.
- Create an HTML document Teaching the basics of HTML (Hypertext Markup Language), the standard for creating web pages, including how to start a document, the structure of HTML tags, and how to create a document by hand-coding or using a suitable program.
- Set up the document head and body Guiding through the division of an HTML document into the head (elements not part of the main web content) and body (visible elements), and how to structure these sections properly.

1. Summary of Lecture 2

- Add text to a web page Instructions on how to add text and apply HTML tags to define the element type for each text item, such as title, headings, and paragraphs.
- Add a comment to a web document The use of HTML comments for adding non-visible information in the document to explain code segments or structure.
- Preview your web page on a desktop computer Steps to preview the created web page in different browsers on a desktop computer, noting the differences in display across browsers.
- Configure web server software The basics of setting up and configuring web server software to host the web pages, introducing Aptana Studio 3 as an example of a free code editor with a built-in web server.
- Preview your web page on mobile devices The importance of testing the web page on various devices, including desktops, tablets, and mobile phones, to ensure proper rendering and identify necessary adjustments.

1. Summary of Lecture 2

The lecture emphasizes prior planning as a crucial component in designing effective websites, including the need to consider the site's goals, audience, type, budget, and timeline. It highlights the use of wireframes for layout planning, storyboards for navigation planning, and the fundamental role of HTML in web page creation. Additionally, it touches on the importance of comments for code documentation, the necessity of testing across different devices and browsers, and the utility of web servers for mobile viewing.

Basic HTML Document Structure

This example demonstrates how to set up a basic HTML document, including the declaration, head, and body sections.

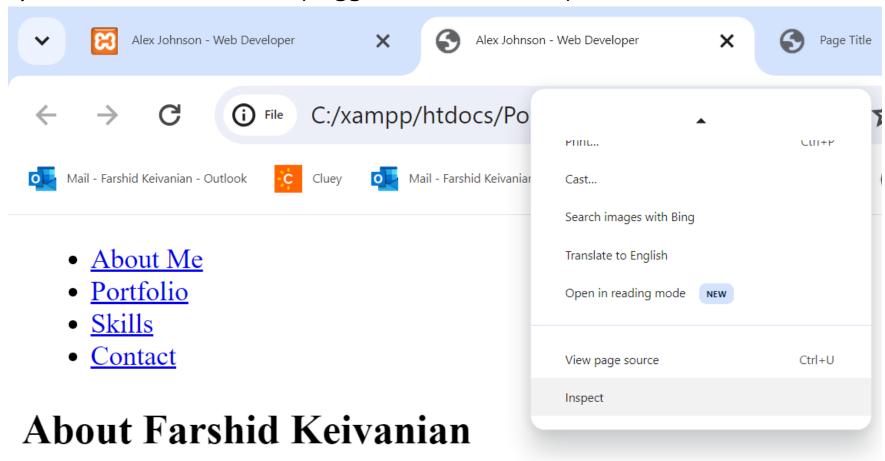
```
<!DOCTYPE html>
Head | Section | Sect
<head>
                                      <meta charset="UTF-8">
                                      <meta name="viewport" content="width=device-width, initial-scale=1.0"</pre>
                                      <title>Web Design</title>
</head>
l<body>
                                      <h1>Welcome to Web Design Week 3</h1>
                                      Explore more examples.
</body>
</html>
```

Adding Comments

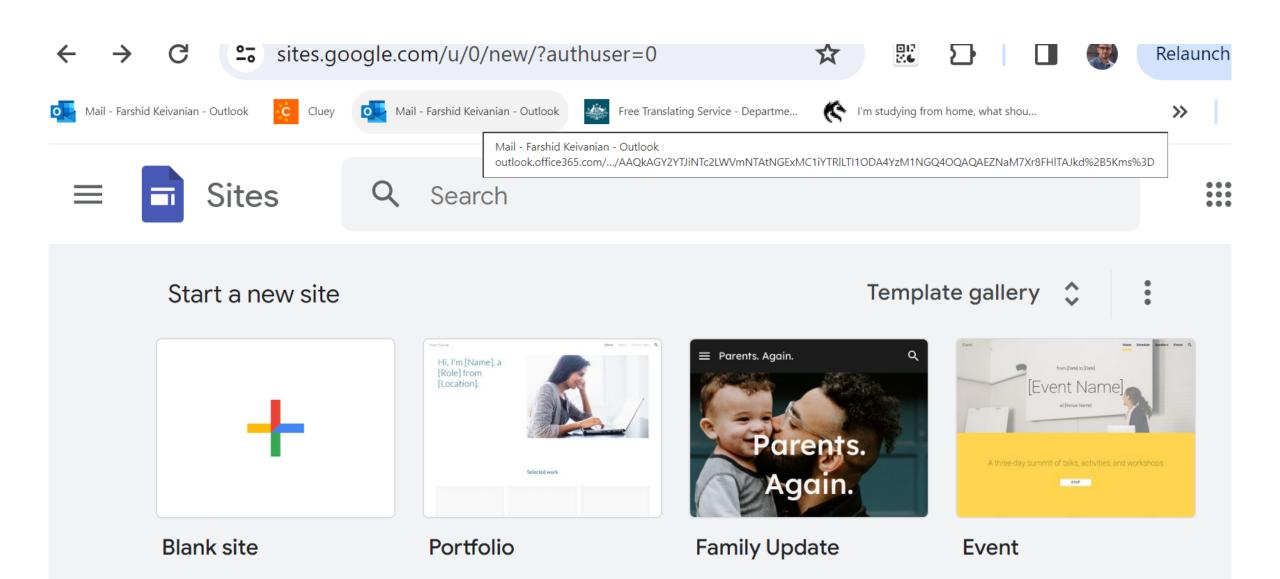
Comments are used to include notes in the code that are not displayed to the user. This can be useful for explaining sections of the HTML document or for temporarily disabling parts of the HTML code.

Toggling Device Toolbar

Right Click >> Inspect >> Ctrl + Shift + M (Toggle Device Toolbar)



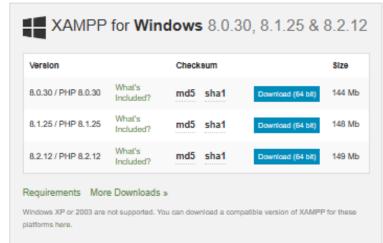
Creating Pages Using Google Site



Creating A Web Saver Using Xampp or Aptana Studio

Install Xampp as the webserver on your systems and test it.

https://www.apachefriends.org/de/download.html





A XAMPP for **Linux** 8.0.30, 8.1.25 & 8.2.12

Version		Checksum		Size
8.0.30 / PHP 8.0.30	What's Included?	md5 sha1	Download (64 bit)	151 Mb
8.1.25 / PHP 8.1.25	What's Included?	md5 sha1	Download (64 bit)	153 Mb
8.2.12 / PHP 8.2.12	What's Included?	md5 sha1	Download (64 bit)	151 Mb

Requirements More Downloads »

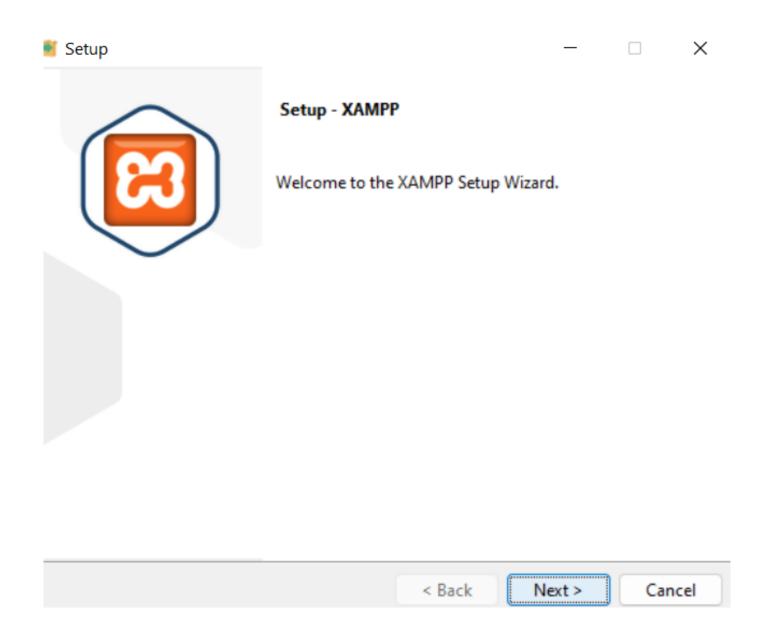


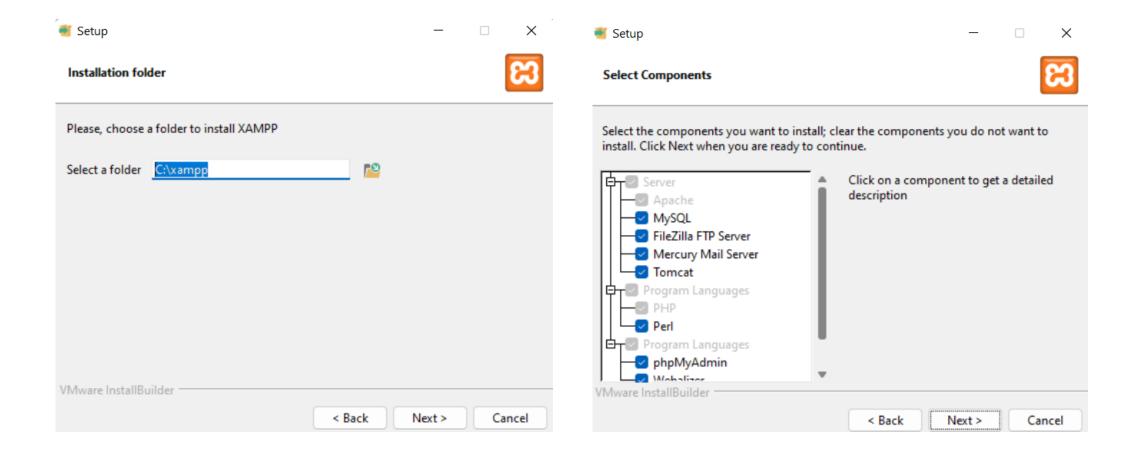
XAMPP for OS X 8.0.28, 8.1.17 & 8.2.4

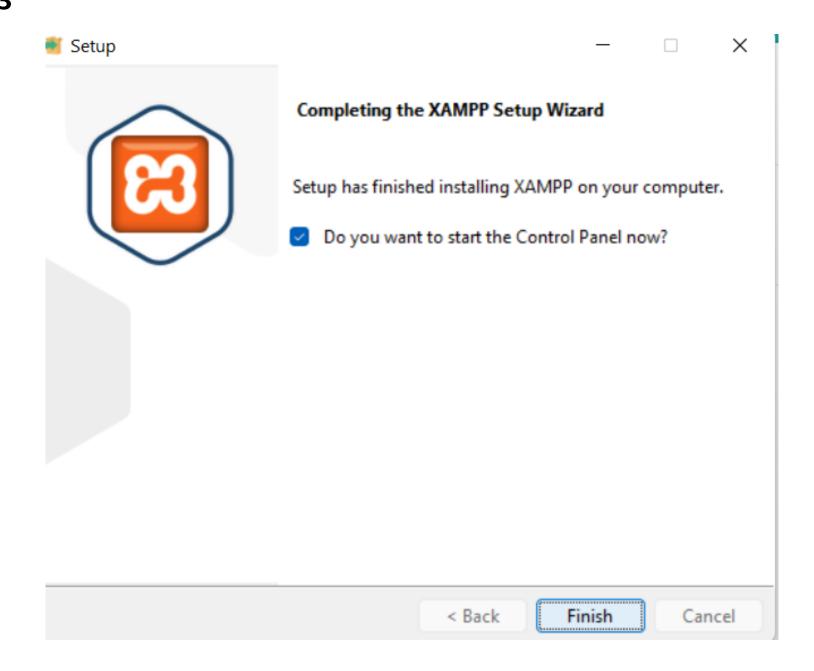
Version		Checksum		Size
8.0.28 / PHP 8.0.28	What's Included?	md5 sha1	Download (64 bit)	150 Mb
8.1.17 / PHP 8.1.17	What's Included?	md5 sha1	Download (64 bit)	151 Mb
8.2.4 / PHP 8.2.4	What's Included?	md5 sha1	Download (64 bit)	150 Mb

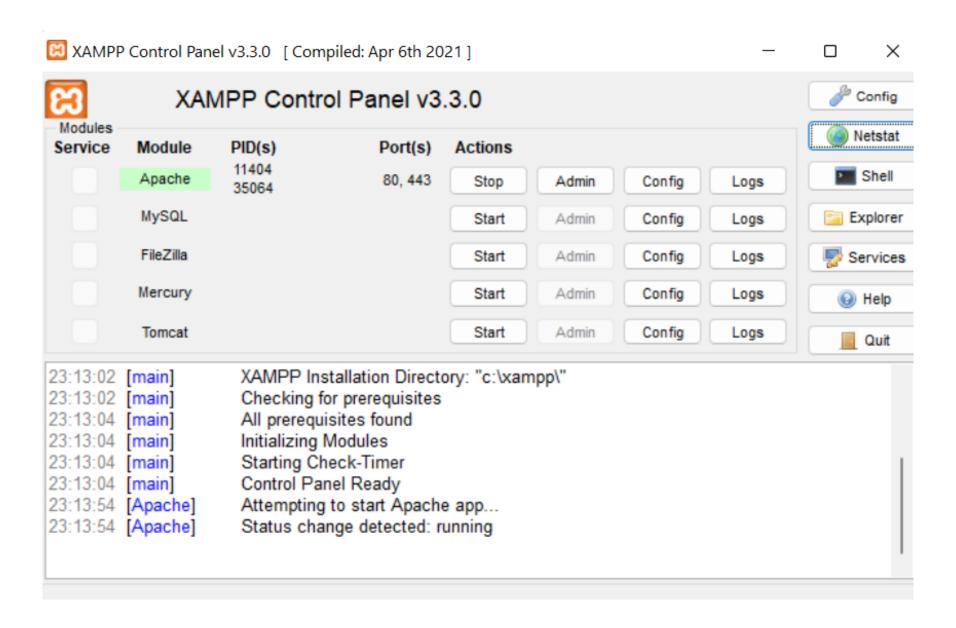
Requirements More Downloads »

A Native installer installs MariaDB, PHP, Perl, etc. directly onto your macOS system. It supports intel (x64) or Apple M1 (arm64) CPUs.









The Steps:

1. Create an HTML File:

- Open a text editor such as Notepad ++ or any code editor.
- Write the HTML code using the tags you learned.

2. Save the File:

- Save this file with a '.html' extension, for example, 'Italic.html'.
- Place this file in the 'htdocs' directory of your XAMPP installation (usually 'C:\xampp\htdocs' if you're using a Windows machine).

3. Start Apache Server:

- Open XAMPP Control Panel.
- Start the Apache module by clicking the 'Start' button next to Apache.

4. View the HTML File:

- Open your web browser.
- Navigate to http://localhost/Portfolio.html. This will display your HTML file as a web page in your browser.

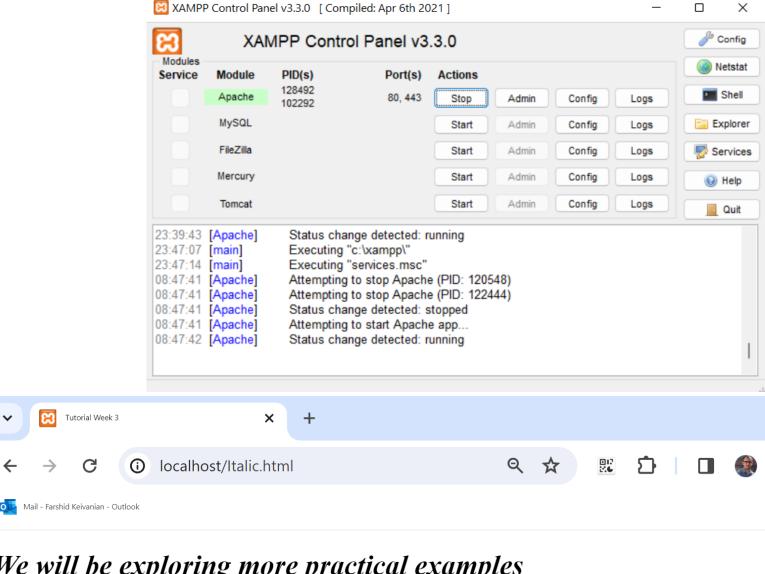
Italic Heading & <u>underlined</u> paragraph

Save the File:

- Save this file with a '.html' extension, for example, 'Italic.html'.
- Place this file in the 'htdocs' directory of your XAMPP installation (usually 'C:\xampp\htdocs' if you're using a Windows machine).

Italic Heading & <u>underlined</u> paragraph

- **Start Apache Server:**
- Open XAMPP Control Panel.
- Start the Apache module by clicking the 'Start' button next to Apache.
- View the HTML File:
- Open your web browser.
- Navigate to http://localhost/Italic.html. This will display your HTML file as a web page in your browser.



We will be exploring more practical examples

Power, Intelligence, Agility!

Alignment

Write HTML code the display the following results:

This is center aligned	
	This is right aligned
	This is center aligned

Alignment

```
<!DOCTYPE html>
<html>
 <head>
  <title>Alignment Example</title>
 </head>
 <body>
   This is left aligned
   This is center aligned
   This is right aligned
 </body>
</html>
```

Alignment



This is left aligned

This is center aligned

This is right aligned

Australian Wildlife

Image	Description	More Info
	Koala - A native Australian marsupial.	Wikipedia
	Kangaroo - A symbol of Australia.	Wikipedia

<meta name="viewport" content="width=devicewidth, initial-scale=1.0">

 Configures the viewport (the user's visible area of a web page) to ensure the site is responsive and scales correctly on different devices.

```
C:\xampp\htdocs\Australian Wildlife.html - Notepad++
<u>File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?</u>
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 change.log 🛛 🔚 Australian_Wildlife.html 🔼
        <!DOCTYPE html>
      -<html lang="en">
      -<head>
            <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Australian Wildlife</title>
           <style>
               table {
                   border-collapse: collapse;
 10
                   width: 50%;
 11
 12
               th, td {
 13
                   text-align: left;
 14
                   padding: 8px;
 15
                   border: 1px solid #ddd;
 16
 17
               th
 18
                   background-color: #f2f2f2;
 19
           </style>
 21
       -</head>
      -<body>
 23
           24
               25
                 Image
 26
                 Description
 27
                 More Info
 28
               </t.r>
 29
               <img src="C:\xampp\htdocs\koala.jpg" alt="Koala" width="100">
 31
                 Koala - A native Australian marsupial.
                 <a href="https://en.wikipedia.org/wiki/Koala">Wikipedia</a>
 32
 33
               34
               35
                 <imq src="C:\xampp\htdocs\kangaroo.jpg" alt="Kangaroo" width="100">
                 Kangaroo - A symbol of Australia.
 36
 37
                 <a href="https://en.wikipedia.org/wiki/Kangaroo">Wikipedia</a>
 38
               39
           40
       -</body>
       -</html>
```

Australian Wildlife

<style>

Opens the style section for internal CSS.

```
Styles for the table: 'border-collapse: collapse;' removes space between borders, and 'width: 50%;' sets the table's width to half of the container's width.
```

```
th, td {
  text-align: left;
  padding: 8px;
  border: 1px solid #ddd;
}
```

```
C:\xampp\htdocs\Australian Wildlife.html - Notepad++
  <u>Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?</u>
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change.log 🗵 님 Australian_Wildlife.html 🗵
       <!DOCTYPE html>
      -<html lang="en">
     -<head>
           <meta charset="UTF-8">
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Australian Wildlife</title>
           <style>
              table {
                  border-collapse: collapse;
10
                  width: 50%;
11
12
              th, td {
13
                  text-align: left;
14
                  padding: 8px;
15
                  border: 1px solid #ddd;
16
17
              th
18
                  background-color: #f2f2f2;
19
20
           </style>
21
      -</head>
     <body>
23
           24
              25
                Image
26
                Description
27
                More Info
28
              </t.r>
29
              <img src="C:\xampp\htdocs\koala.jpg" alt="Koala" width="100">
31
                Koala - A native Australian marsupial.
32
                <a href="https://en.wikipedia.org/wiki/Koala">Wikipedia</a>
              34
              35
                <imq src="C:\xampp\htdocs\kangaroo.jpg" alt="Kangaroo" width="100">
36
                Kangaroo - A symbol of Australia.
                <a href="https://en.wikipedia.org/wiki/Kangaroo">Wikipedia</a>
37
38
              39
           -</body>
      -</html>
42
```

Australian Wildlife

Applies styles to table header ('th') and table data ('td') cells: left-aligns text, adds padding for space inside the border, and sets a light grey border.

```
th {
   background-color: #f2f2f2;
```

 Sets a light grey background color specifically for table headers.

</style>

Closes the style section.

```
C:\xampp\htdocs\Australian Wildlife.html - Notepad++
<u>File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?</u>
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 change.log 🛛 🔚 Australian_Wildlife.html 🔼
       <!DOCTYPE html>
      -<html lang="en">
      <head>
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Australian Wildlife</title>
           <style>
               table {
                  border-collapse: collapse;
10
                  width: 50%;
 11
 12
               th, td {
 13
                  text-align: left;
 14
                  padding: 8px;
 15
                  border: 1px solid #ddd;
 16
 17
               th
 18
                  background-color: #f2f2f2;
 19
           </style>
      -</head>
      <body>
 23
           25
                 Image
 26
                 Description
 27
                 More Info
 28
               </t.r>
               <img src="C:\xampp\htdocs\koala.jpg" alt="Koala" width="100">
 31
                 Koala - A native Australian marsupial.
 32
                 <a href="https://en.wikipedia.org/wiki/Koala">Wikipedia</a>
 33
               34
               35
                <imq src="C:\xampp\htdocs\kangaroo.jpg" alt="Kangaroo" width="100">
 36
                 Kangaroo - A symbol of Australia.
 37
                 <a href="https://en.wikipedia.org/wiki/Kangaroo">Wikipedia</a>
 38
               39
           </body>
      -</html>
 42
```

Australian Wildlife

-
- Table data cell with an image: Displays a koala image, sets an alternative text "Koala" for accessibility, and defines the image width as 100 pixels.

```
C:\xampp\htdocs\Australian Wildlife.html - Notepad++
<u>File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?</u>
🕞 🛃 🗎 🖺 🥦 🧸 🨘 🙈 | 🚜 🖍 🏗 | 🗩 🧲 | 🖴 🍇 | 🤏 🥞 | 📭 🚍 | 🏗 1 | 📜 🐷 📓 📭 🖍 🖮 🐠 | 🗷 🗉 🗷
 change.log 🛛 🔚 Australian_Wildlife.html 🔼
        <!DOCTYPE html>
      -<html lang="en">
      -<head>
            <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Australian Wildlife</title>
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 10
                   width: 50%;
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               th, td {
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                   text-align: left;
 14
                   padding: 8px;
 15
                   border: 1px solid #ddd;
 16
 17
               th
 18
                   background-color: #f2f2f2;
 19
           </style>
       -</head>
      <body>
 23
           24
               25
                 Image
 26
                 Description
 27
                 More Info
 28
               29
               <img src="C:\xampp\htdocs\koala.jpg" alt="Koala" width="100">
 31
                 Koala - A native Australian marsupial.
                 <a href="https://en.wikipedia.org/wiki/Koala">Wikipedia</a>
 32
               34
               35
                 <imq src="C:\xampp\htdocs\kangaroo.jpg" alt="Kangaroo" width="100">
                 Kangaroo - A symbol of Australia.
 36
                 <a href="https://en.wikipedia.org/wiki/Kangaroo">Wikipedia</a>
 37
 38
               39
           -</body>
       -</html>
 42
```

localhost/Artwork%20Highlights_Interacti... 🍳 🛣 <!DOCTYPE html> <html> Mail - Farshid Keivanian - Outlook Mail - Farshid Keivanian - Outlook Free Translating Service - Departme... <head> <title>Your Webpage</title> <style> /* Style for all table rows */ **Title** Artist Year table tr { background-color: #ffffff; /* White background for all rows by default */ The Death of Marat Jacques-Louis David 1793 /* Style for odd table rows */ table tr:nth-child(odd) { Burial at Ornans Gustave Courbet 1849 background-color: #f2f2f2; /* Light grey background for odd rows */ /* Style for even table rows - This isn't necessary if you want all rows white by default, as declared above. But it's included here for completeness. */ table tr:nth-child(even) { background-color: #e7e7e7; /* Slightly different grey for even rows */ Sessions Web Development / Artwork Highlights Interactive Table Display.html /* Style for when hovering over table rows */ table tr:hover { background-color: #9e9e9e; /* Darker grey when hovering */ color: black; FarshidKeivanian Add files via upload </style> With this structure, when we open our HTML file in a web browser, our </head> <body> table will have the styles applied: all rows will have a white background by Title Artist Year default, odd rows will have a light grey background, even rows will have a The Death of Marat Jacques-Louis David slightly different grey (as per our CSS), and when we hover over any row, it 1793 will change to a darker grey with black text. This will create a zebra-stripe Burial at Ornans Gustave Courbet 1849

effect on non-hovered rows and a highlight effect on the row under the

3. More Practical Examples: Artwork Highlights: Interactive Table Display

mouse cursor.

</body>

<!-- More rows... -->

3. More Practical Examples: Artwork Highlights: Interactive Table Display

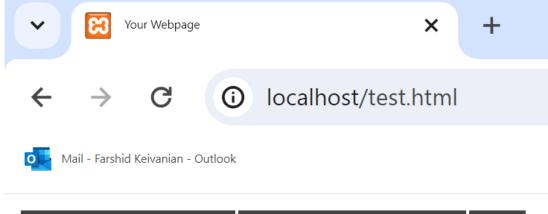
- These codes can be used in HTML or CSS to specify colors in digital designs. Each color code is provided in hexadecimal format, which is commonly used in web design:
- Red: #FF0000 A vibrant, primary red.
- **Green:** #00FF00 A bright, pure green.
- Blue: #0000FF A deep, primary blue.
- White: #FFFFF Pure white.
- Black: #000000 Absolute black.
- Yellow: #FFFF00 A bright, sunny yellow.
- Cyan (Aqua): #00FFFF A mix of green and blue, creating cyan.
- Magenta (Fuchsia): #FF00FF A deep pink-purple color, combining red and blue.
- **Silver:** #C0C0C0 A metallic gray, lighter than gray.
- **Gray:** #808080 A perfect midpoint between black and white.
- Maroon: #800000 A dark red.
- Olive: #808000 A dark shade of yellow-green.
- Purple: #800080 A deep purple, close to violet.
- Teal: #008080 A dark greenish-blue.
- Navy: #000080 A very dark blue, almost black.

```
3. More Practical Examples: Artwork Highlights: Interactive Table Display
Earthy Tones Set (Good for natural or eco-friendly themes)
/* Style for all table rows */
table tr {
  background-color: #fbf9f4; /* Off-white, almost natural linen */
/* Style for odd table rows */
table tr:nth-child(odd) {
  background-color: #eae0d5; /* Soft beige */
/* Style for even table rows */
table tr:nth-child(even) {
  background-color: #d8cfc4; /* Warm grey */
/* Style for when hovering over table rows */
table tr:hover {
  background-color: #b8a99e; /* Darker shade of beige */
```



```
3. More Practical Examples: Artwork Highlights: Interactive Table Display
Vibrant Color Set (Suitable for modern, youthful themes)
/* Style for all table rows */
table tr {
  background-color: #ffffff; /* Pure white background for a clean look */
                                                                               Your Webpage
                                                                                                           ×
/* Style for odd table rows */
table tr:nth-child(odd) {
                                                                                            localhost/test.html
  background-color: #ffe5e5; /* Light pink */
                                                                         Mail - Farshid Keivanian - Outlook
/* Style for even table rows */
                                                                             Title
                                                                                                                Year
                                                                                                 Artist
table tr:nth-child(even) {
                                                                     The Death of Marat Jacques-Louis David 1793
  background-color: #e6f7ff; /* Light blue */
                                                                     Burial at Ornans
                                                                                         Gustave Courbet
                                                                                                                1849
/* Style for when hovering over table rows */
table tr:hover {
  background-color: #c2f0c2; /* Light green for an active hover effect */
```

```
3. More Practical Examples: Artwork Highlights: Interactive Table Display
Dark Mode Set (Ideal for tech-oriented or modern sites)
/* Style for all table rows */
table tr {
  background-color: #333333; /* Dark grey, almost black */
/* Style for odd table rows */
table tr:nth-child(odd) {
  background-color: #424242; /* Medium-dark grey */
/* Style for even table rows */
table tr:nth-child(even) {
  background-color: #535353; /* Slightly lighter grey */
/* Style for when hovering over table rows */
table tr:hover {
  background-color: #666666; /* Even lighter grey for hover */
```



Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849

		e & Tutorial Questions - Recognising student participation and engagement specifically ose who are most actively involved!
1. A _	is	a host computer that stores resources and files for websites.
	a.	client
	b.	server
	C.	modulator
	d.	demodulator
2. A _	is	a set of rules that defines how a client workstation can communicate with a server.
	a.	proxy
	b.	jQuery
	C.	wireframe
	d.	protocol
	is a	set of rules for exchanging text graphic sound video and other multimedia files on the
web.		
	a.	Network Time Protocol (NTP)
	b.	Gross Data Transfer Protocol (GDTP)
	C.	Hypertext Transfer Protocol (HTTP)
	d.	Uniform Resources Protocol (USP)

4. Attendance & Tutorial Questions - Recognising student participation and engagement specifically identifying those who are most actively involved!			
4 microm	_ oversees the network connection between the data source and destination and anages the data.		
	a. Dynamic Host Configuration Protocol (DHCP)		
	b. Internet Control Message Protocol (ICMP)		
	c. Internet Protocol (IP)		
	d. Transmission Control Protocol (TCP)		

5. 192.168.1.5 is an example of a(n) _____.

a.

b.

d.

Transmission Control Protocol (TCP) address

Internet Protocol (IP) address

Domain Name Number (DNN)

Internet Access Control (IAC) address

4. Attendance & Tutorial Questions - Recognising student participation and engagement specifically identifying those who are most actively involved!
Several companies that use web technologies participate in work groups with the to develop
standards and guidelines for the web.
World Wide Web Consortium (W3C)
• A(n) is another term for a website that is generally available to anyone with an Internet connection.
public website
Hypertext Markup Language (HTML) define additional characteristics or properties of the element
such as the width and height of an image.
attributes
• is a library of JavaScript programs designed for easy integration onto a webpage.
jQuery
Tapping or clicking a allows one to move quickly from one webpage to another without being
concerned about where the webpages reside.
hyperlink

4. Attendance & Tutorial Questions - Recognising student participation and engagement specifically identifying those who are most actively involved!

What is the difference between a text editor and a Hypertext Markup Language (HTML) text editor?

A text editor allows for the basic editing of plain text. An HTML text editor, however, is specifically tailored for web development and provides features like syntax highlighting, tag completion, error detection, and more, which help in writing HTML code efficiently.

Define Learning Management System (LMS) and discuss its purpose.

A Learning Management System (LMS) is a software application or web-based technology used to plan, implement, and assess a specific learning process. It is used primarily for eLearning practices and helps instructors manage and organize educational materials online, allowing for the creation and delivery of content, monitoring participation, and assessing student performance.

Explain the working of Transmission Control Protocol/Internet Protocol (TCP/IP).

TCP/IP is a suite of communication protocols used to interconnect network devices on the internet. TCP/IP specifies how data should be packetized, addressed, transmitted, routed, and received at the destination. TCP ensures reliable transmission of data across network connections by managing the sending and receiving of all data packets. IP handles the address part of each packet so that it gets to the correct destination.

4. Attendance & Tutorial Questions - Recognising student participation and engagement specifically identifying those who are most actively involved!

In the figure above, item #3 shows a(n) _____ tag.

a. comment

b. closing

c. preview

d. opening

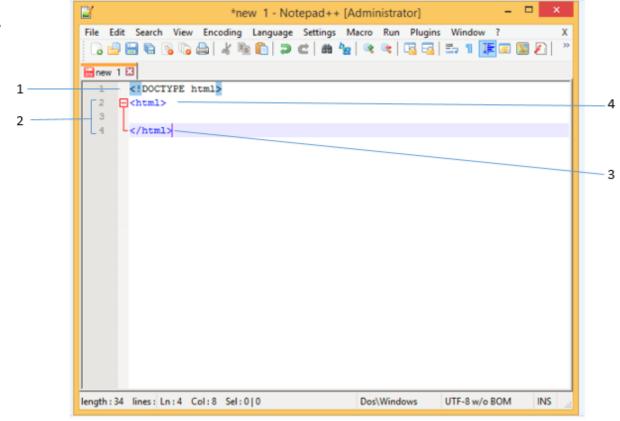
2. To make your site available to anyone with access to the web, you need to copy the files to a web _____, which is a computer optimized to store and share web documents and that has an extremely high-speed Internet connection.

a. portal

b. server

c. publisher

d. client



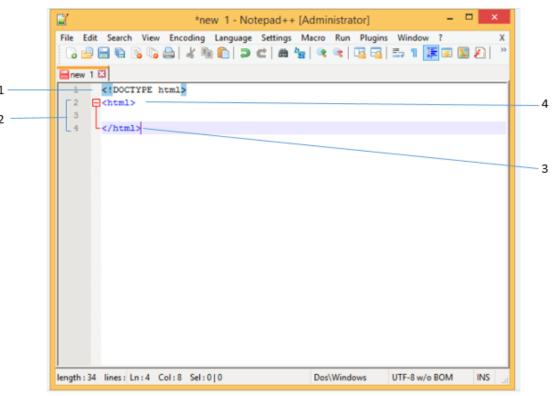
4. Attendance & Tutorial Questions - Recognising student participation and engagement specifically identifying those who are most actively involved!

 To create a web page, you enter text that you want to display on the page along with HTML codes known as _____, which specify how a user agent should treat each item in the document.

tags

• The _____ element specifies text that appears in the title bar of the web browser opening the page.

- title
- The contents of the _____ section are visible in the main window of a web browser and include elements like paragraphs and headings.
- body



5. Key assessment dates



<u>Labs / Tutes Information</u>

	DUE DATE	DUE TIME	
			Lab 1 (Week 2 & 3)
Lab 1	14 April, 2024	11.59 pm	
			Lab 2 (Week 4 & 5)
Lab 2	28 April, 2024	11.59 pm	
			Lab 3 (Week 6 & 7)
Lab 3	12 May, 2024	11.59 pm	Edb 5 (WCCR 6 & 7)
			Lob 4 (Mook 9.9.0)
Lab 4	26 May, 2024	11.59 pm	Lab 4 (Week 8 & 9)
Lab 5	9 June, 2024	11.59 pm	Lab 5 (Week 10 & 11)

This folder contains submission links for each Lab / Tutes that form part of the assessment for this unit.

5. Key assessment dates

Unit Information

Teaching Staff / Student
Support

Assessments

Discussion Boards

Tutorial Materials

Lectures

Additional Resources 🛮

Groups - MELBOURNE

Proquest Login

My Grades

Weekly Drop-In Consultation

In-Class Tutorial Recordings



Key Assessment Dates 💿

ASSESSMENT	DUE DATES
Labs x 5	Refer assessment folder

ASSESSMENT	DUE DATES
Online Quizzes x 3	Refer assessment folder

ASSESSMENT	DUE DATE	DUE TIME
Group Assignment	23 June, 2024	11.59 pm

