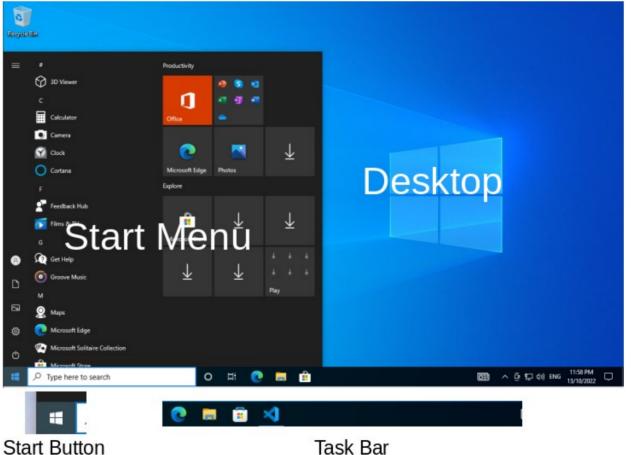
Windows Fundamentals



Windows Desktop

- Desktop
- Start Button
- Start Menu
- Task Bar



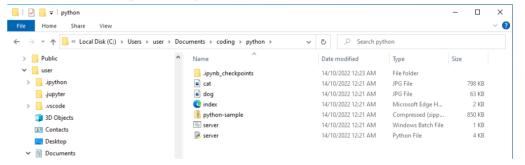


Windows File Explorer

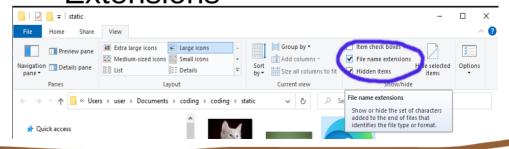


- What is a File?
 - A file is an image, a document, a text file, etc
 - A file also has some characters after a dot at the end, which is known as the file extension. Windows Hides these by default but we want to see them!
- What is a Folder?
 - A folder is a collection of files
- What is a C:\ Drive?
 - The C drive is the 'hard drive' inside your computer. It stores all your files and folders

 File Explorer allows you to Navigate your C:\ drive.



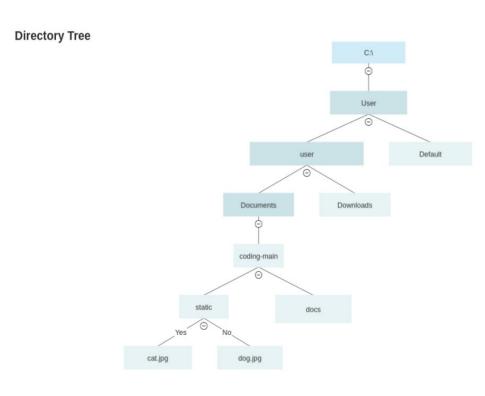
 Enable View File Name Extensions

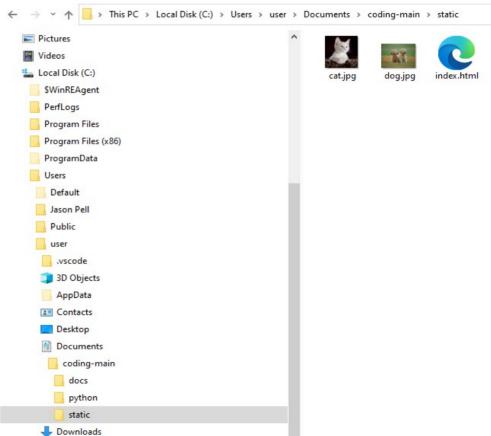


What is a Disk Drive



 Is a Folder, with Folders and Files inside it





Files



- There are many types of files including:
 - Text files these are simple files that have characters you can read, like letters, numbers and symbols
 - ZIP Files more on those next
 - Images PNG, JPEG, etc
 - Documents like word, excel documents. These are files only the related application can read and understand

- Examples of text files include:
 - HTML files for the internet
 - Javascript
 - Python
- To edit text files we use a Text Editor like Notepad++ or Visual Studio Code.

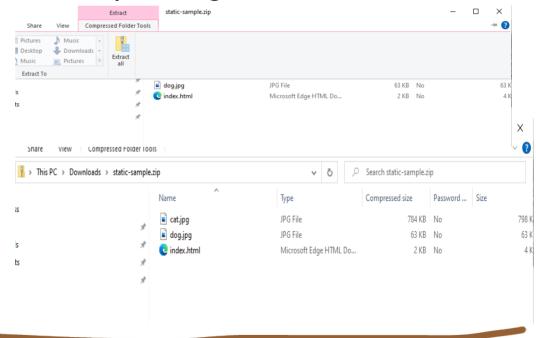
Zip Files



Imagine a ZIP file is a box with books in it, you need to unpack that box to get the books out.

- A zip file is like that, you need to unpack it to get the files out.
- The static-sample.zip from last week is an example of a zip file.

 Windows calls this Unpacking Extract All



Web Browser



- A Web Browser is an application to browse the internet
- Popular browsers include:
 - Firefox
 - Chrome
 - Chromium
 - Edge
 - Safari



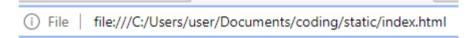
- All websites use a type of file called a HTML file
- In addition web sites are constructed using some additional files such as:
 - Images
 - JavaScript
 - CSS
 - I won't go into these here today though!

File Paths and File URLs

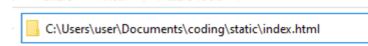


- File Explorer and Browsers have different ways of referencing local files and folders.
- A browser uses a File URL
- File Explorer uses a File path

- A File URL looks a lot like a
 File Path, except the slashes
 are different!
- The File URL:



The File Path:



Browser URLs



- Browsers use URLs for the internet too
- They look a bit different to File URLs though.
- There are few important parts to a URL:
 - The Domain Name
 - The Path
 - Query Parameters

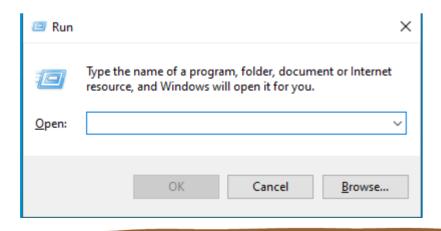
https://gbc.pellcorp.com/installers/?type=vege&name=carrot

- The important parts are:
 - **gbc.pellcorp.com** is the domain name
 - **/installers** is the path
 - type=vege&name=carrot is the query string, and its everything past the ? Of the URL.
- Urls can have ports too:
 - http://localhost:8080/quote?type=vege&name=carrot
 - localhost is the domain
 - 8080 is the port
 - /quote is the path

Windows Run Command



- Remember the Windows Key?
- Windows Key and the R key give you a Run Command window



- You can use it to run applications if you know their name.
- Lets start Notepad using the Run Command.
- Type 'notepad' into the Run window and hit the Enter / Return key to start notepad

Windows Terminal



- The CMD terminal is where you can run applications by typing their name
- Use the Run Command window, type 'cmd' and hit enter.

- With Terminal you can navigate your C:\ drive just like with File Explorer
- Some common commands include:
 - dir to display folder contents (give it a try, type 'dir' by itself)
 - cd <folder name> to change to a different folder
 - type <filename> to display what is inside a file

Windows Terminal Cont.



Exercises

- change to c:\windows
- Display a list of the files in the c:\windows folder
- List all files in c:\windows that have a .exe extension (this might be tricky for some of you, google might help)
- Display the contents of the win.ini file
- Change to your home folder
- Display a list of all files in your home folder