

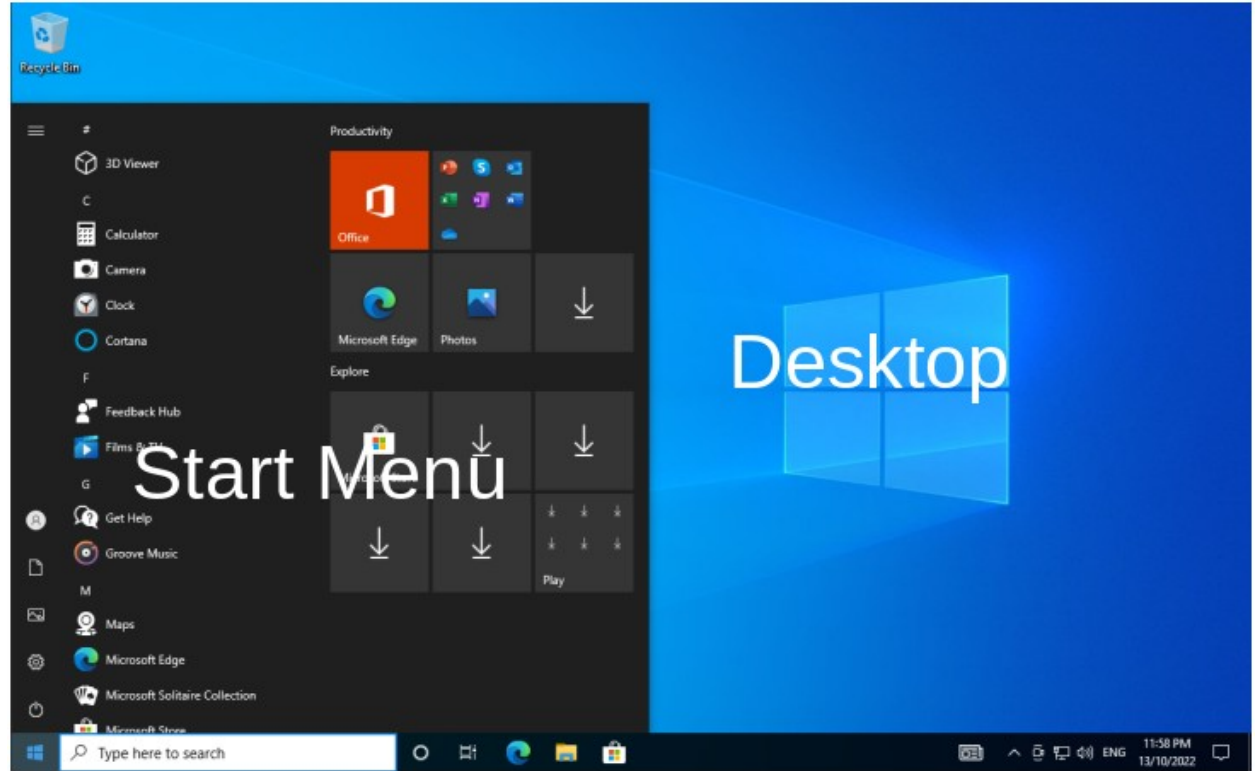
Windows Fundamentals



Windows Desktop



- Desktop
- Start Button
- Start Menu
- Task Bar



Start Button

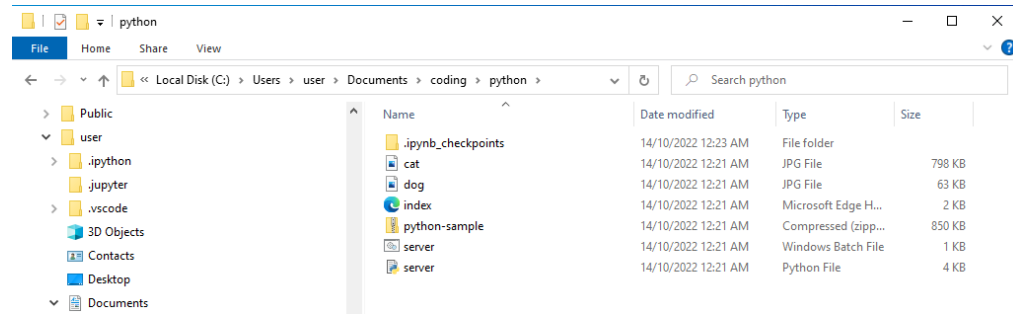
Task Bar

Windows File Explorer

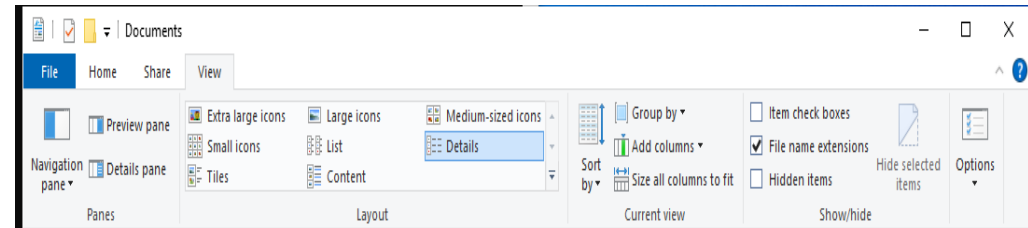


- What is a File?
 - A file is an image, a document, a text file, etc
 - A file also has some characters after a dot at the end, which is known as the file extension. Windows Hides these by default but we want to see them!
- What is a Folder?
 - A folder is a collection of files
- What is a **C:** Drive?
 - The C drive is the main storage media you will have on windows, it has all your files and folders.

- File Explorer allows you to Navigate your **C:** drive.



- Enable View File Name Extensions



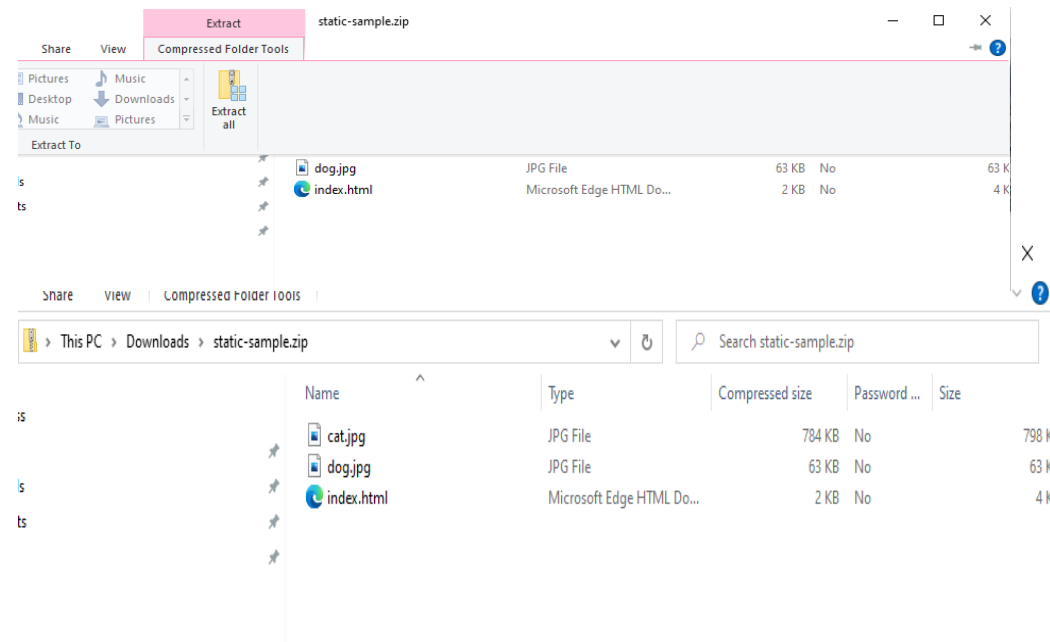
Zip Files



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**



Files

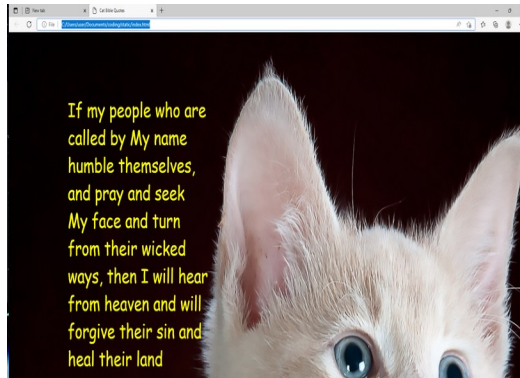


- There are many types of files including:
 - Text files – these are simple files that have characters you can read, like letters, numbers and symbols
 - ZIP Files – more on those next
 - Images – PNG, JPEG, etc
 - Documents – like word, excel documents. These are files only the related application can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

Web Browser



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



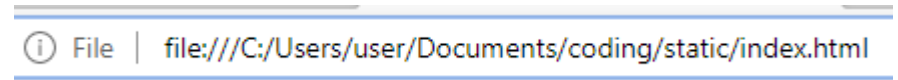
- All websites use a type of file called a HTML file.
- In addition web sites are constructed using some additional files such as:
 - Images
 - JavaScript
 - CSS
- I won't go into these here today though!

File Paths and File URLs

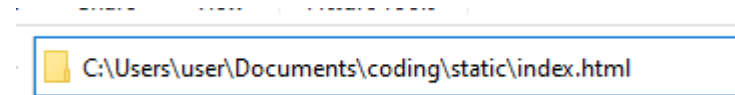


- File Explorer and Browsers have a different way of pointing at local files and folders.
- A browser uses a File URL
- A File manager uses a File path

- 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 parts to a URL:
 - The Domain Name
 - The Path
 - Query Parameters

<https://gbc.pellcorp.com/installers/?only=these>

- The parts are:
 - **gbc.pellcorp.com** is the domain name
 - **/installers** is the path
 - **only=these** is the query string
- Urls can have ports too:

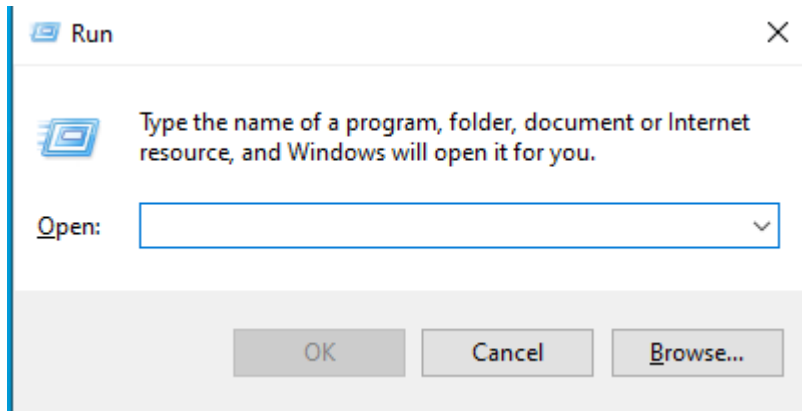
<http://localhost:8080/quote>

 - **localhost** is the domain
 - **8080** is the port
 - **/quote** is that path

Windows Run Command



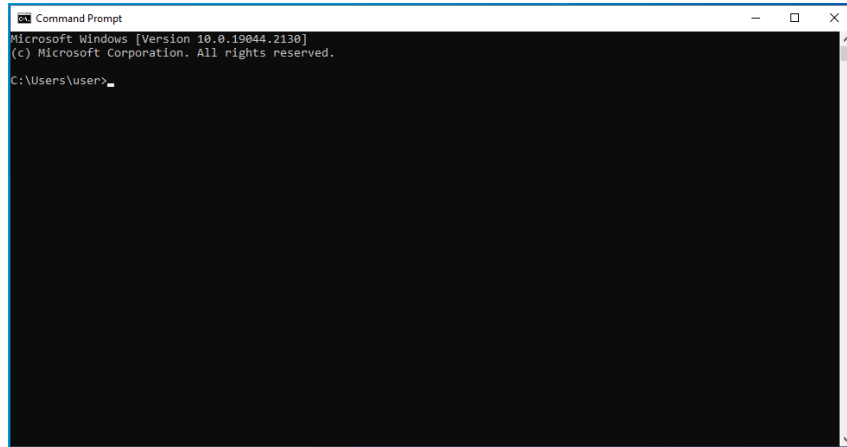
- Remember the Windows Key?
- Windows Key and the R key give you a Run Command window
- You can use it to run applications if you know their name.
- We will use it next to run the Windows Terminal
- Try typing 'notepad' and hitting the Enter / Return key.



Windows Terminal



- The CMD terminal where you can run applications by typing their name
- Use the Run Command window and 'CMD'

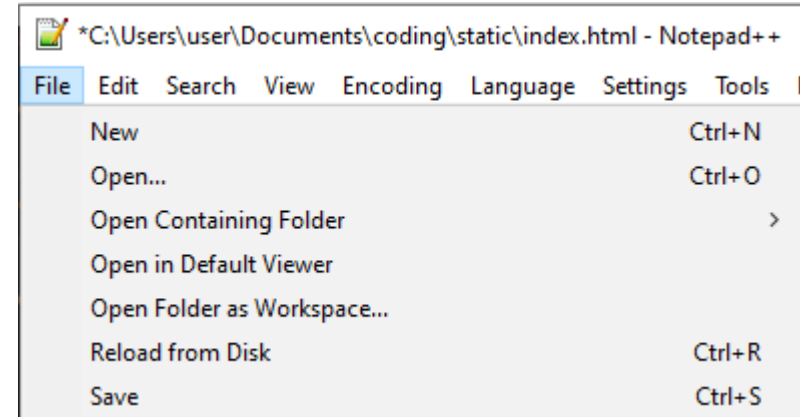
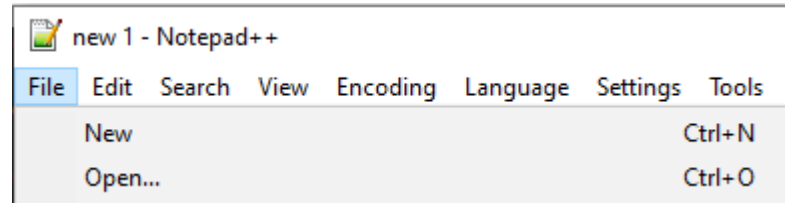


- With Terminal you can navigate your C drive just like with File Manager
- Some common commands include:
 - dir – list folder contents
 - cd <folder name> to change to a different folder
 - type <filename> - to display contents of a file

Notepad++



- Notepad++ is a text editor we can use to edit text files, such as HTML and Python files.
- To open a file, you use the File → Open menu
- To save a file, you use the File → Save menu option



Visual Studio Code

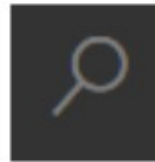


- Visual Studio Code is also a text editor
- But it also makes it easy to run our python programmes directly.
- There a few important parts of Visual Studio Code you should familiarise yourself with.

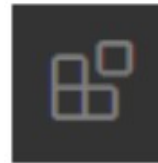
- Important buttons:



Explorer – Like File Manager



Search – Search in files




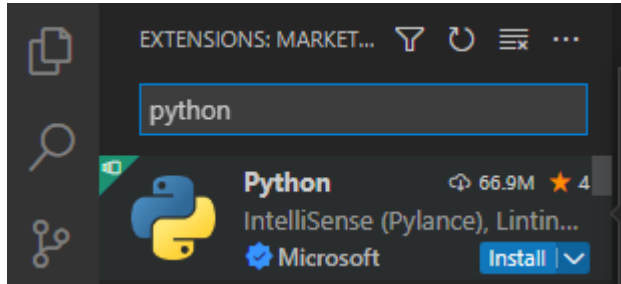
Extensions

- Don't worry too much about the others for now

Add the Python Extension



- Start up Visual Studio Code
- Click the Extensions  button
- Search for **python** and click the install button



And that is it, once its done we will be able to do some python coding!

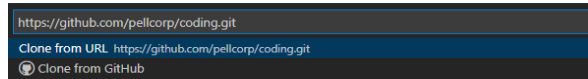
- And then Wait for it to finish *installing*

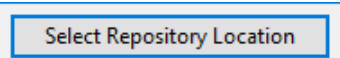
Getting the Sample Code



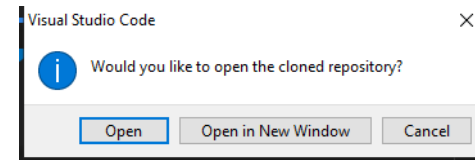
- Click the Explorer  button
- Click the Clone Repository  button

- Enter the following URL:
`https://github.com/pellcorp/coding.git`

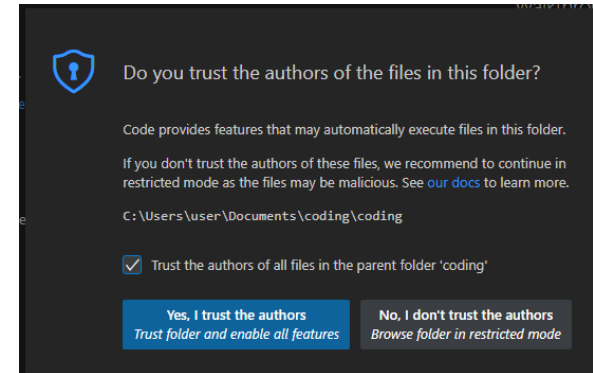


- Hit that Enter key to continue
- Choose a folder to clone into, you should choose your GBC Network home directory and then click the  button.

- Click Open when prompted to Open the repository



- Click the Yes, I trust the authors button.



The Sample Code



- You should see this now:
- A handy feature of VSC is to Reveal a selected file in File Explorer.

