

# Introduction to command line

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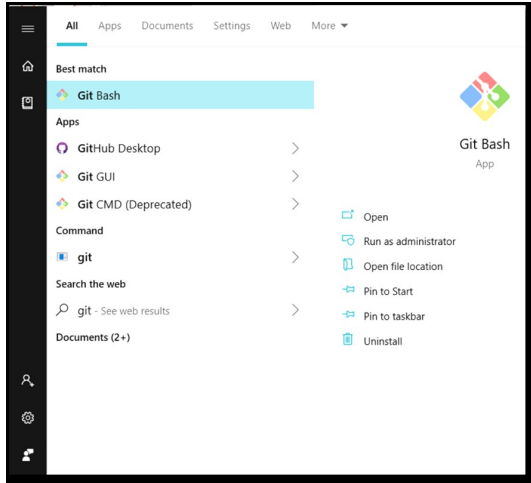
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Command line is easy!

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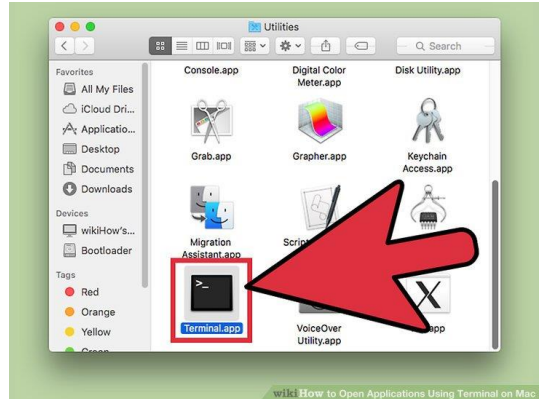
## Windows 10

### ► Open Git bash



## MacOS

### ► Open Terminal in Utilities



Where am I?

# Where am I?

- ▶ pwd = present working directory
  - ▶ bash shell paths use forward slash as separator

*In Windows:*  
`C:\Users\tams00`  
*becomes*  
`/c/Users/tams00`
- ▶ Symbol ~ means home directory
  - ~ is the same as*  
`/c/Users/tams00`

## Notes:

- ▶ Windows is not case sensitive
- ▶ MacOS and Linux are case sensitive
  - cd documents*  
*won't work*

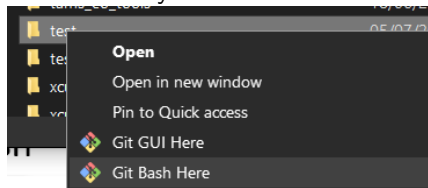
Moving about

## Moving about

- ▶ `ls` = List files in directory
  - ▶ `ls -l` gives long listing format  
*directories/*  
*files*
- ▶ `cd` = change directory  
*cd Documents*  
*NB. tab key autocompletes file and directory names, e.g.: cd Doc<press tab>*
- ▶ Shortcuts:
  - ▶ `cd ..` = move up one directory
  - ▶ `cd ~` = move to home directory
  - ▶ `cd -` = move to previous directory

## Notes:

- ▶ Check output against file browser. You are looking at the same files.
- ▶ In Windows you can start a Git bash shell in any location by right clicking on a directory



## Creating and removing files and directories



## Creating and removing files and directories

- ▶ `mkdir` = make directory  
*mkdir rubbish*
- ▶ `rmdir` = remove directory  
*rmdir rubbish*
- ▶ `rm` = remove file  
*rm rubbish.txt*

### Notes:

- ▶ Can still use the file browser
- ▶ Create and modify text files using any editor, e.g.
  - ▶ Notepad++ in Windows
  - ▶ TextEdit in MacOS

Copy or move files

## Copy or move files

- ▶ `mv` = move file/directory  
*mv file.txt*  
NB. Can be used to rename e.g. *mv oldname.txt newname.txt*
- ▶ `cp` = copy file  
*cp file.txt file\_v2.txt*
- ▶ `cp -r` = copy directory AND contents  
*cp -r Documents Documents\_v2*

### Notes:

- ▶ Alternatively use the file browser
- ▶ NB. Avoid using spaces in filenames on command line. (It won't understand them)

Tips to make life easier...

## Tips to make life easier...

- ▶ Tab key = auto-complete (avoid typing long path names)
- ▶ Copy & paste
  - ▶ Select text using mouse = automatically copies highlighted text
  - ▶ Right or central click to paste.
  - ▶ NB. Ctl+c/Ctl+v won't work on command line: Ctl+c means cancel/abort
- ▶ `less` = view file contents without editing  
*less file.txt*
- ▶ Scroll using arrows, type q to quit/exit

Test your installation from terminal

## Test your installation from terminal

```
git --version  
git version 2.22.0.windows.1
```

### How to configure an editor for git messages

[https://github.com/CefasRepRes/Git\\_Training/wiki/Before-the-course](https://github.com/CefasRepRes/Git_Training/wiki/Before-the-course)

- ▶ Check default editor  
*git config -- core.editor*
- ▶ Simplest choice for Windows  
*git config --global core.editor  
"notepad"*
- ▶ Help for other editors

<https://help.github.com/en/articles/associating-text-editors-with-git>