

Introduction to command line

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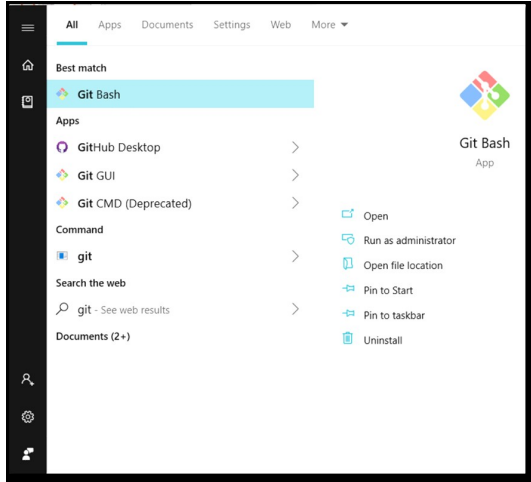
Friday, May 3, 2024

Command line is easy!

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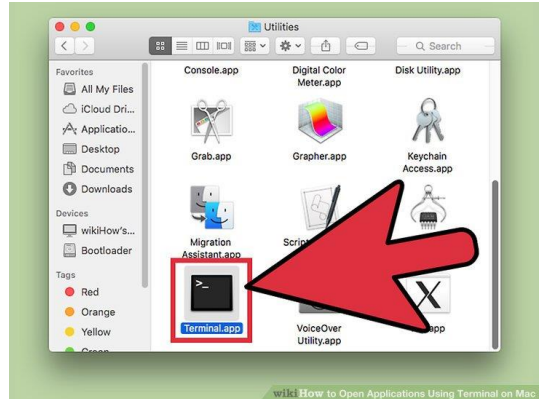
Windows 10

► 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

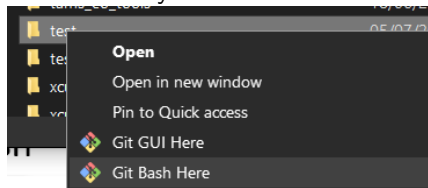
Moving about

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

- ▶ 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>