

The Unix Shell

Tools

What is an Editor

- A text editor is a program used to edit text!
- There are lots of them, but they all manipulate a stream of characters so you can save them in a file
- Some editors use a window – gedit, notepad
- Others just use the terminal window – vi, emacs, nano

nano



The screenshot shows a terminal window with the nano text editor open. The window title is "shell — badc@ingest5:~/software/datasets/direct_access_detector — nano — 83x20". The nano status bar at the top displays "GNU nano 2.0.6", "New Buffer", and "Modified". The main editing area contains the text "Hello There!" followed by a cursor. The bottom status bar lists various keyboard shortcuts: ^G Get Help, ^O WriteOut, ^R Read File, ^Y Prev Page, ^K Cut Text, ^C Cur Pos, ^X Exit, ^J Justify, ^W Where Is, ^V Next Page, ^U UnCut Text, and ^T To Spell.

```
shell — badc@ingest5:~/software/datasets/direct_access_detector — nano — 83x20
~ — badc@ingest5:~ — -zsh ... ...:~/software/datasets/direct_access_detector — nano
GNU nano 2.0.6 New Buffer Modified
Hello There!
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

Happy for you to use emacs or vi if you already know how.

What is a terminal

- A terminal is a program used to talk to a shell
- We will be learning what a shell is later...

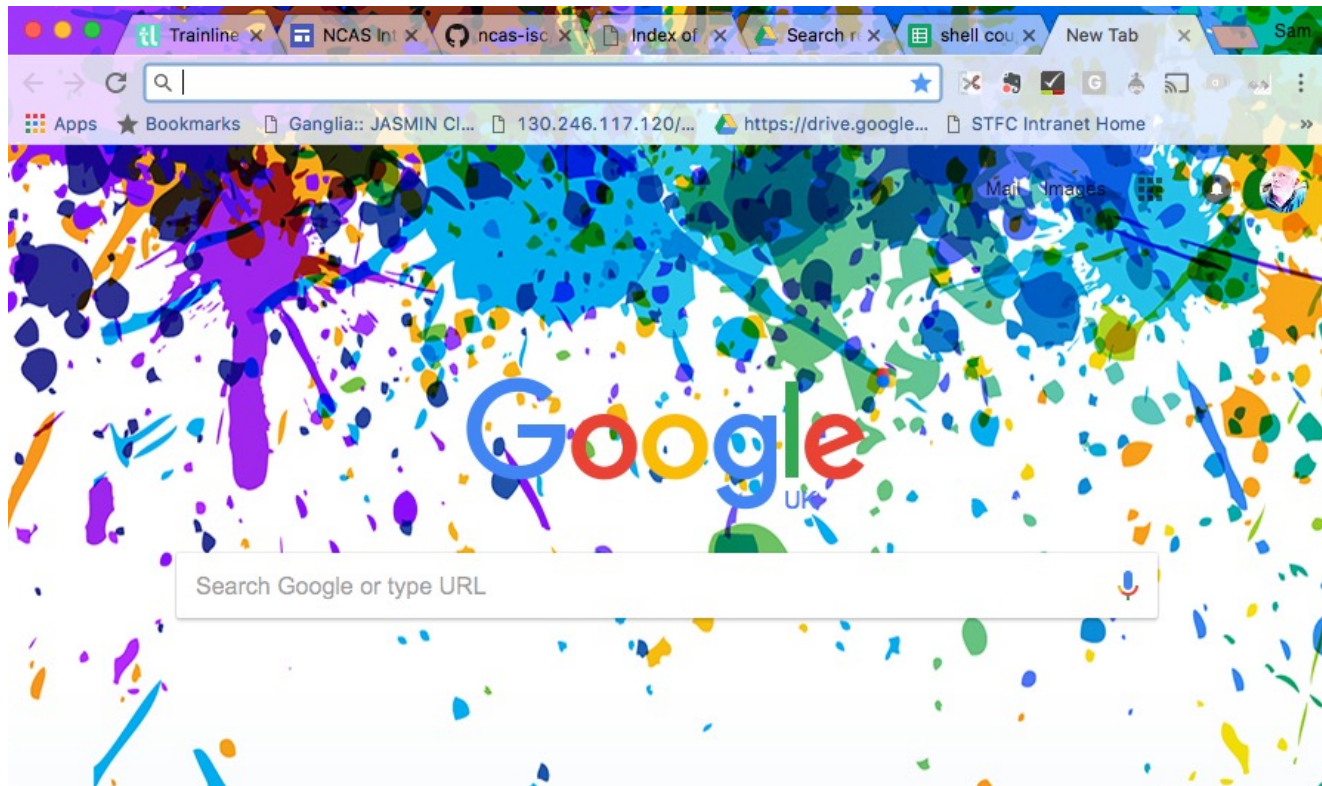
Today we will be using Moboxterm or Terminal

Does not matter which one.

```
trunk — spepler@jasmin-sci1:~ — bash — 118x24
__init__.py      filespec.xml      settings.py      urls.py
explain          filespec_sucker.py testupload.csv
explain.db       manage.py         testupload_centre.csv
explainer       randfiles.py      testupload_data.csv
SSTDMSJP01:trunk sjp23$ ls -l
total 816
-rw-r--r--  1 sjp23  staff    0 19 Dec  2013 __init__.py
drwxr-xr-x 11 sjp23  staff   374 19 Dec  2013 explain
-rw-r--r--  1 sjp23  staff 150528 17 Mar 15:19 explain.db
drwxr-xr-x 13 sjp23  staff   442 19 Dec  2013 explainer
-rwxr-xr-x  1 sjp23  staff 229024 19 Dec  2013 filespec.xml
-rw-r--r--  1 sjp23  staff  1316 19 Dec  2013 filespec_sucker.py
-rwxr-xr-x  1 sjp23  staff   250 19 Dec  2013 manage.py
-rw-r--r--  1 sjp23  staff   335 19 Dec  2013 randfiles.py
-rw-r--r--  1 sjp23  staff  4983 19 Dec  2013 settings.py
-rw-r--r--  1 sjp23  staff  2352 19 Dec  2013 testupload.csv
-rw-r--r--  1 sjp23  staff  1625 19 Dec  2013 testupload_centre.csv
-rw-r--r--  1 sjp23  staff   825 19 Dec  2013 testupload_data.csv
-rw-r--r--  1 sjp23  staff   568 19 Dec  2013 urls.py
SSTDMSJP01:trunk sjp23$ whoami
sjp23
SSTDMSJP01:trunk sjp23$ pwd
/Users/sjp23/play/explain/trunk
SSTDMSJP01:trunk sjp23$
```

Web browser

- Does not matter which one.



Shell Day 1

00:05	editors and the terminal	presentation
00:30	Unix shell intro, Files and directories	presentation
00:20	Exploring the file system	exercise
00:15	Pipes and filters	presentation
00:20	Pipes and filters exercise	exercise
00:15	permissions	presentation
00:15	Permission exercise	exercise
00:20	COFFEE	
00:15	Finding stuff	presentation
00:20	Needle in haystack	exercise
00:20	Job control and variables	presentation
00:20	Controlling jobs exercise	exercise

Shell Day 2

00:05	Remember yesterday?	presentation
00:10	Remember yesterday exercise	exercise
00:20	shell scripts	presentation
00:20	shell script exercise	exercise
00:30	COFFEE	
00:15	Using ssh	presentation
00:35	ssh exercise	exercise
00:30	transferring files and other useful stuff	presentation
00:30	transferring files	exercise
00:30	Everybody happy - what else do you want to know	
01:00	LUNCH	