Introduction to command line

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April 20, 2016

What is command line?

```
/var/root # ls
          hello hello.c
/var/root # ls -lh
total 8
drwxr-xr-x 2 root
                root 440 Mar 23 13:25 dat
                   root 9 Mar 23 13:17 dos -> /root/dos
lrwxrwxrwx 1 root
-rwxr-xr-x 1 root root 2.0K Mar 23 13:50 hello
-rw-r--r-- 1 root root 242 Mar 23 13:37 hello.c
/var/root # cd ..
/var # ls
/var # cd ..
dev lib mnt root tmp
```

Command line history



live coding caveat

Benefits of command line

- Automation
- Reproducibility
- Required to run many programs

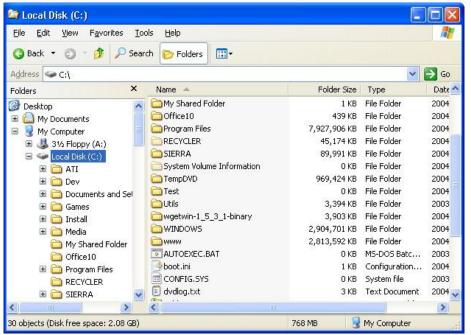
Benefits of command line

Example

Making it easier

Tab completion	Press Tab once to autocomplete.
	Press Tab twice to list potential completions.
History	Press Up or Down to view/edit previous commands.
man	Type man XXX to get help on command XXX.
google	Lots of webpages. Add "linux" and/or "tutorial"

Directories



Directory shortcuts

•	The current "working" directory	
	The parent directory of the current directory	
~	Your home directory (different for each user)	
-	The last directory	





pwd

mkdir

Practice

What next?

- LinuxCommand.org
- google: software carpentry unix