

About Me

- Started in tech in 2000, Comp Sci degree
- . Only knew windows before
- . Command line was a mystery to me
- . Grew to love it
- Book on bash, spend most of my time on the command line today



- Access to a command line
- . Ideally bash
- Nice to have knowledge of basic bash
 - Introduction to Bash course available
 - Pipes most common feature likely to be used

Why This Course?

- Command line is efficient
- For people who are:
 - . New to it
 - Want to learn more about it
 - . Want to progress further
- NOT a complete list of all commands used
 - Try to cover wide ground, beginner to expert
 - . Try to show how to learn more

We Will Cover

- . A lot of commands
- Some techniques
- . Some key concepts
 - . Readline
 - . History of terminals
- Anything you want...

Structure of Course

- . Part I The Core
 - . Commands
- Part II Text and Files
 - Text and file manipulation and search
 - Readline
- Part III Networking and System (Time Permitting)
 - Web requests
 - Network debugging
 - Service management
 - System monitoring

Discussion - Experience

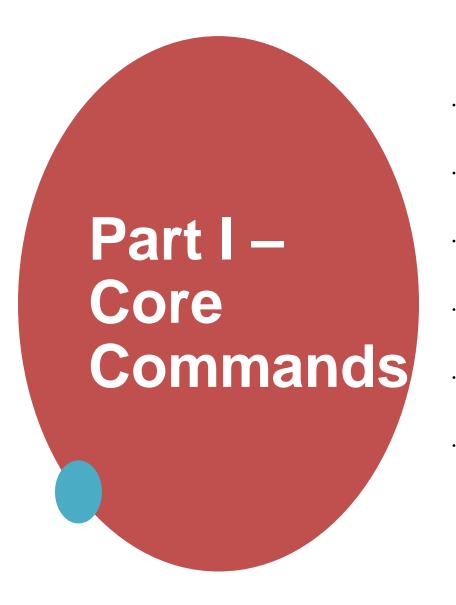
- Never used command line
- Used a little (less than one year)
- Use rarely (longer than a year)
- . Use all the time

Discussion

- What do you want to learn about?
- . What problems have you faced?

Materials

• https://github.com/ianmiell/introduction-to-the-command-line



. cd

. mkdir

. rm

. Is

. cat

. echo

Part I – Core Commands

- . less
 - · How to use + tips
- . man
 - . How to use + tips

Part I – Exercise / Break

Part II – Globs vs Regexps

- Globs vs Regexps
 - . Commonly confused similar but different
- Both used to select things:
 - Eg glob wildcard, eg select all files with:
 - . Is *
 - Regexp wildcard is '.*', eg:
 - grep "before.*after" *
- Shells use globs, programs use regexps.
- If it's in quotes, the program uses it.

Part II – Text and File Manipulation

- grep
- . tr
- . sed
- sort / uniq
- . tail
- . diff / sdiff

Part II – Readline Shortcuts

Readline

- CTRL + a
- . CTRL + e
- . CTRL + r

Part II – Exercise / Break

Part III – Networking and System

Networking:

- Web requests
- . TCP connections
- ICMP connections
- . DNS

Part III – Networking and System

System:

- . top
- ps
- kill

Wrapup Q&A



Thanks!

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