Don't Be Afraid of the Command Line

Katie Ford

September 10, 2019

Outline
Fear
Why
Basics
Real Things I Do
caveat codor
More!

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Introduction

- command line
- bash, zsh
- terminal

Orders of Business

- ▶ Applaud Her
- ▶ Leadership

Language of Fear

► Female teachers' math anxiety affects girls' math achievement

Language of Fear

- Female teachers' math anxiety affects girls' math achievement
- Trait beliefs that make women vulnerable to math disengagement

Gate Keeping

"You aren't a real ... because you don't ..."

Spaced Repetition - practice, practice, practice

- ▶ flash cards
- ▶ something you care about
- ▶ paycheck

My Workflow - Personal Projects

- ▸ two tabs in terminal
    - ▸ One for use of the command line (often in an environment)
    - ▸ One for writing / referencing code
    - ▸ (One if I'm also in a remote environment)
- ▸ keyboard shortcuts to switch between them

My Workflow - Work

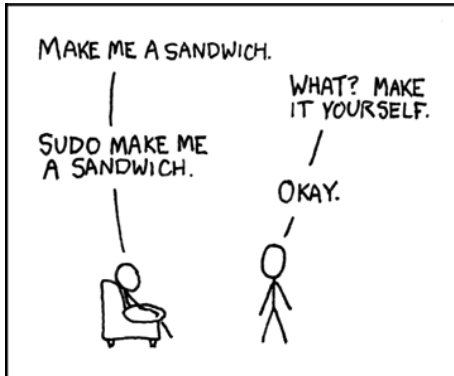6 - 8 screens in screen (essentially tabs)

- ▶ command line (often git)
- ▶ vim for writing new code
- ▶ vim for reading / referencing code
- ▶ command line access to dbs
- ▶ command line (running tests in testing environment)
- ▶ vim to test files
- ▶ running scripts against production (x.pl, x.py)

Navigation

- pwd
- mkdir
- cd
- ls (-a, -l)
- ..
- /
- mv
- cp, scp

sudo

super **u**ser **do**

Proper User Policy
apparently means Simon
Says

Things I Do

- sed, awk, grep
- command line debugger
- vim
- cat <file>— wc -l

10:07 AM **Katie Ford** meanwhile, I've learned some cute piping tricks

`grep '^NONE' test.log | awk '{print $2}' | grep '\.mn'`

10:08 AM ▮▮▮▮▮▮▮ Piping is great.

That is the true power of the unix shell

And don't forget `sed` for when the output needs to be massaged and `grep -v` to invert your matches :-)

*nix environment

- ▶ shell access to web host
- ▶ terminal
- ▶ raspberry pi

Magic

- aliases
- borrowed bash scripts

dot files

- .bashrc
- .gitconfig
- git-completion
- git-prompt

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.bashrc

```
export EDITOR='vim'
umask 002
source ${HOME}/includes/bash/git-prompt.sh
source ${HOME}/includes/bash/git-completion.sh

export PS1='\[\e[1;33m\][\u@\h \[\e[0m\]\w$(__git_ps1 "
        (%s)")\[\e[1;33m\] ] \$\[\e[0m\] '
alias ls='ls -G'
```

Colored folders

Colored folders

```
alias ls='ls -G' # on macs
alias ls='ls --color=auto' # linux
```

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pwd at prompt

```
export PS1='\[\e[1;33m\][\u@\h \[\e[0m\]\w$(__git_ps1 "
        (%s)")\[\e[1;33m\] ] \$\[\e[0m\] '
```

```
bitshell@ps502649:~$ cd eightbitstitch.xyz/
bitshell@ps502649:~/eightbitstitch.xyz$ cd bitstitch/
bitshell@ps502649:~/eightbitstitch.xyz/bitstitch$ cd bitstitch/
bitshell@ps502649:~/eightbitstitch.xyz/bitstitch/bitstitch$ cd
bitstitch/ etc/        flossy/    static/
bitshell@ps502649:~/eightbitstitch.xyz/bitstitch/bitstitch$ cd static/
bitshell@ps502649:~/eightbitstitch.xyz/bitstitch/bitstitch/static$ 
```

Resources

- ▶ Command Line Crash Course
- ▶ Coder Pete's dotfiles
- ▶ books from the library

Me

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- Slack