

## Tip of the Week

Tuesday, October 14th, 2014

October 13, 2014

# Dotfiles

Huh?

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- ▶ [http://hacktux.com/bash/bashrc/bash\\_profile](http://hacktux.com/bash/bashrc/bash_profile)

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  - ▶ functions

## Tips

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- ▶ `alias topu='top -u $(id -un)'`
- ▶ check out default SCC/GEO alias for `rm`



## Sun Grid Engine

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- ▶ `alias qshv='qsh -V -l h_rt=24:00:00'`

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- ▶ `alias cms='cd /projectnb/landsat/projects/CMS/'`

# Modules

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Not necessarily recommended, but...

```
host=$(hostname)
if [[ "$host" == "geo" || "$host" == "scc1" || "$host" == " "
    . /usr/local/Modules/default/init/bash
    source ~/.module
fi
```

# Modules

And ~/.module:

```
module load python/2.7.5
```

```
module load gdal/1.10.0
```

```
module load R_earth/3.1.0
```

```
module load CCDCTools/_beta
```



PATH

# PATH

Call your own scripts or programs:

```
if [ -d "$HOME/bin" ]; then  
    PATH="$PATH:$HOME/bin"  
fi
```

# Shell Prompts

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Current prompt:

```
ceholden@ceholden-lhome:~/Documents/ceholden.github.io/pres  
\[\e]0;\u@\h: \w\a\]${debian_chroot:+($debian_chroot)}\u@\h
```

# Shell Prompts

```
export PS1="\[$(tput setaf 2)]\u@\h:\w\\$ \[$(tput sgr0)]\
```

# Shell Prompts

See <http://bashrcgenerator.com/> or  
<https://www.kirsle.net/wizards/ps1.html> for generators.

# Functions

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“abusers”

```
function abusers() {  
    qstat | awk 'NR > 2 { if ($5 == "r") print $4 " " $9 }'  
    awk '{ sums[$1] += $2} END \  
    { for (i in sums) printf("%s %s\n", i, sums[i])}' |  
    sort -k2 -n -r  
}  
export -f abusers
```



# Functions

Cluster job ID matching pattern...

```
function jidof() {  
  
    pattern=$1  
  
    jid=""  
    for j in $(qstat -u $USER | grep $pattern | awk '{ print $1 }')  
    do  
        jid="$jid $j"  
    done  
    echo "$jid"  
}  
export -f jidof
```

# Functions

GDAL - from <https://github.com/dwtkns/gdal-cheat-sheet>

```
function gdal_extent() {  
    if [ -z "$1" ]; then  
        echo "Missing arguments. Syntax:"  
        echo "  gdal_extent <input_raster>"  
        return  
    fi  
    EXTENT=$(gdalinfo $1 |\  
        grep "Upper Left\|Lower Right" |\  
        sed "s/Upper Left //g;s/Lower Right //g;s/).*/g"\  
        tr "\n" " " |\  
        sed 's/ *$//g' |\  
        tr -d "[]" | tr ", " " "  
    echo -n "$EXTENT"  
}  
export -f gdal_extent
```

Git

After doing so much work, why not back up your dotfiles?

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- ▶ Sync across computers
- ▶ Backup and track
- ▶ Share with others



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2. Move all dotfiles into repo folder
3. Symlink (`ln -s`) the files to previous locations
4. Git add, commit, and push

“Homeshick” - makes symbolic linking of dotfiles easy!

<https://github.com/andsens/homeshick>

# Dotfiles

`https://github.com/ceholden/dotfiles`