



20 Bash Tricks in 5 Minutes

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github

nibalizer/bash-tricks





Aliases

Spelling
Shortening

```
alias sl='ls'  
alias mdkir='mkdir'  
alias g='git'  
alias v='vagrant'  
alias d='docker'
```

```
$: g status
```

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
nothing to commit, working directory clean
```





Aliases

Longer Commands

```
alias gpom='git push origin master'  
alias grom='git reset --hard origin/master'
```

```
$: gpom  
Counting objects: 3, done.  
Writing objects: 100% (3/3), 260 bytes | 0 bytes/s, done.  
Total 3 (delta 0), reused 0 (delta 0)  
To git@github.com:nibalizer/bash-tricks.git  
    bc8aef7..908c913  master -> master
```





Aliases

Chained Commands
Long Commands

```
alias ppv='puppet parser validate'
```

```
alias bsc='git add .; git commit -a -m "BS Commit"; git  
push origin master'
```

```
$: ppv manifest.pp
```

```
$: bsc
```

```
[master b312e6a] BS Commit
```

```
1 file changed, 1 insertion(+)
```

```
Counting objects: 3, done.
```

```
Writing objects: 100% (3/3), 279 bytes | 0 bytes/s, done.
```

```
Total 3 (delta 0), reused 0 (delta 0)
```

```
To git@github.com:nibalizer/bash-tricks.git
```

```
f0ded73..b312e6a master -> master
```





Aliases

Reference

```
$: alphabet
```

```
a b c d e f g h i j k l m n o p q r s t u v w x y z
```

```
$: numalphabet
```

```
a b c d e f g h i j k l m n o p q r s t u v w x y z
```

```
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
```

```
$: unicode
```

```
✓ ™ 🎵 🎶 🌀 ° Θ ∫
```

```
$: man ascii
```

```
alias ascii='man ascii | grep -m 1 -A 63 --color=never Oct'
```





Aliases

Env Munging
Reg Ex

```
alias ossh='LOCALDOMAIN=openstack.org /usr/bin/ssh'  
alias utcddate='TZ=utc date'
```

```
alias reg_mac='echo [0-9a-f]{2}:[0-9a-f] ...'
```

```
$: ifconfig | grep -E `reg_mac`  
eth0      Link encap:Ethernet  HWaddr 54:ee:75:48:6a:eb
```





Aliases

Validation

```
alias yamllcheck='python -c "import sys, yaml as y;  
    y.safe_load(open(sys.argv[1]))"'
```

```
alias jsoncheck='jq "." >/dev/null <'
```

```
$: yamllcheck goodfile.yaml
```

```
$: echo $?
```

```
0
```

```
$: jsoncheck badfile.json
```

```
parse error: Invalid numeric literal at line 3, column 0
```

```
$: echo $?
```

```
4
```





Prompt

Dynamic Behavior

```
$: bashopt promptgit on
```

```
(master u=)$: bashopt promptdir on
```

```
~/devel/openstack-infra/project-config (master u=)$:
```

```
$: bashopt promptfs on
```

```
(rita,fuse.sshfs)$: bashopt rvm on
```

```
Enabling RVM. vrooom
```

```
[ruby-1.9.3-p551](rita,fuse.sshfs)$:
```





Functions

Setup

```
gobook() {  
    ssh -N -f -L 3389:localhost:3389 telescope.fqdn  
    rdesktop -K -u nibz -p $WINDOWS_PASSWORD ...  
}
```





Functions

cdp

```
cdp () {  
    TEMP_PWD=`pwd`  
    while ! [ -d .git ]; do  
        cd ..  
    done  
    OLDPWD=$TEMP_PWD  
}
```

```
$: pwd  
~/puppet-extlib/lib/puppet/parser/functions  
$: cdp  
$: pwd  
~/puppet-extlib  
$: cd -  
~/puppet-extlib/lib/puppet/parser/functions  
$: pwd  
~/puppet-extlib/lib/puppet/parser/functions
```





Functions

Github

```
function pr() {  
    id=$1  
    if [ -z $id ]; then  
        echo "Need Pull request number as argument"  
        return 1  
    fi  
    git fetch origin pull/${id}/head:pr_${id}  
    git checkout pr_${id}  
}
```

```
$: pr 17
```

```
...
```

```
Switched to branch 'pr_17'
```





Functions

Github

```
$: git commit -a -m "Changes"
```

```
$: git fork
```

```
Updating nibalizer
```

```
From https://github.com/puppet-community/plugins
```

```
  * [new branch]      master      -> nibalizer/master
```

```
new remote: nibalizer
```

```
$: git push nibalizer changes
```

```
$: git pull-request
```

```
PRing nibalizer:changes into puppet-community:master
```

```
https://github.com/puppet-community/plugins/pull/1
```





Functions

Overloading

```
cdrecord ( )  
{  
    /usr/bin/cdrecord -v $1;  
    eject -T  
}
```





Functions

Hyper Specific

```
alias domain-list="designate --os-endpoint https://region-  
a.geo-1.dns.hpcloudsvc.com/v1/ record-list 9609dad3-  
fc08-451f-9bfc-0977be5733c5"
```

```
function cleanfloat() {  
    for ip in `nova floating-ip-list | awk '/ - / {print  
$4}`  
        do echo $ip  
        nova floating-ip-delete $ip  
    done  
}
```





Functions

Gerrit

```
gerrit () {
```

```
    username=`git config gitreview.username`
```

```
    ssh -p 29418 -l $username review.openstack.org gerrit $*
}
```

```
$: gerrit -h
```

Available commands of gerrit are:

```
ban-commit
```

Ban a commit from a project

```
create-account
```

Create a new batch/role account

```
...
```





Functions

Enhanced Args

```
gerrit ()  
{  
  
    if [ $1 = "wip" ]; then  
  
        commit_sha=`git rev-parse HEAD`  
  
        gerrit review $commit_sha --workflow -1;  
        return $?;  
  
    fi;  
  
    username=`git config gitreview.username`;  
    ssh -p 29418 $username@review.openstack.org gerrit $*  
}
```





Functions

Vim and History

```
$: vim +24
```

```
$: history | tail -n 2 | head -n 1
```

```
$: git grep -n Krum
```

```
CHANGELOG.rst:75: Spencer Krum added the graphing  
capabilities to the Facts tab.
```





Functions

History Inspection

```
vim () {  
  
    last_command=$(history | tail -n 2 | head -n 1)  
  
    if [[ $last_command =~ 'git grep' ]] && [[ "$*" =~ :[0-9]+:$ ]]; then  
  
        line_number=$(echo $* | awk -F: '{print $(NF-1)}')  
        /usr/bin/vim +${line_number} ${*%:${line_number}:}  
  
    else  
  
        /usr/bin/vim $*  
  
    fi  
  
}
```



Thank You
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IBM

