

JHPCE Windows Setup

- <https://jhpce.jhu.edu/knowledge-base/authentication/ssh-key-setup/>
- <https://jhpce.jhu.edu/knowledge-base/mobaxterm-configuration/>
- <https://gitforwindows.org/>
- <https://github.com/rstudio/rstudio/issues/2224#issuecomment-368260312>
- ~/.ssh/config contents:

```
Host j jhpce
  User Your_USERNAME
  Hostname jhpce01.jhsph.edu
  ForwardX11 yes
  ForwardX11Trusted yes
```

- <https://winscp.net/eng/index.php>
- JHPCE: ~/.Rprofile contents:

```
## Change colors
# Source https://github.com/jalvesaq/colorout
if(Sys.getenv('TERM') %in% c("term", "xterm-256color", "cygwin",
"screen") & interactive()) {
  installed <- require("colorout")
  if(!installed) {
    cat('remotes::install_github("jalvesaq/colorout")\n')
  }
  rm(installed)
}

## https://blog.rstudio.com/2013/06/10/rstudio-cran-mirror/
options(repos = c(CRAN = "https://cran.rstudio.com"))
```

- JHPCE: ~/.inputrc contents:

```
#Page up/page down
"\e[B": history-search-forward
"\e[A": history-search-backward
$include /etc/inputrc
```

- JHPCE ~/.bashrc contents:

```
# .bashrc
# Source global definitions
```

```

if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi
# User specific aliases and functions
# Auto-complete command from history
#
http://lindesk.com/2009/04/customize-terminal-configuration-setting-bash-cli-power-user/
export INPUTRC=~/.inputrc
#
http://www.biostat.jhsph.edu/~afisher/ComputingClub/webfiles/KasperHansenPres/IntermediateUnix.pdf
#
https://unix.stackexchange.com/questions/48713/how-can-i-remove-duplicates-in-my-bash-history-preserving-order
export HISTCONTROL=ignoreboth:erasedups
export HISTSIZE=20000
shopt -s histappend
shopt -s cmdhist
#
http://superuser.com/questions/384769/alias-rm-rm-i-considered-harmful
alias rmi='rm -i'
# Change command prompt
#
http://www.cyberciti.biz/tips/howto-linux-unix-bash-shell-setup-prompt.html
#
http://www.cyberciti.biz/faq/bash-shell-change-the-color-of-my-shell-prompt-under-linux-or-unix/
# https://bbs.archlinux.org/viewtopic.php?id=48910
# previous in enigma2: "[\u@\h \W]\$ "
# previously in mac: "\h:\W \u\$ "
export PS1="\[\e[0;33m\]\A \W \$ \[\e[m\]"
# Main working directory
alias labold="cd /dcl01/lieber/ajaffe/lab"
# colors
# http://norbauer.com/notebooks/code/notes/ls-colors-and-terminal-app
# used BSD pattern ExGxFxDxBxEgEdxbxgxhxd on
http://geoff.greer.fm/lscolors/
# that tool does not specify the colors, which I did by looking manually at
# http://blog.twistedcode.org/2008/04/lscolors-explained.html

```

```

# and the norbauer.com site previously mentioned
alias ls="ls --color=auto"
#export
LS_COLORS="di=1;34;40:ln=1;36;40:so=1;35;40:pi=1;93;40:ex=1;31;40:bd=
1;34;46:cd=1;34;43:su=0;41:sg=0;46:tw=0;47:ow=0;43"
## After switching to RStudio:
#
https://askubuntu.com/questions/466198/how-do-i-change-the-color-for-
directories-with-ls-in-the-console
export
LS_COLORS="di=0;32:ln=0;36:so=0;35:pi=0;93:ex=0;31:bd=0;34;46:cd=0;34
;43:su=0;41:sg=0;46:tw=0;47:ow=0;43:fi=0;33"
## Load the git module by default when qrsh/qsub
## thanks to Jiong Yang
if [[ $HOSTNAME == compute-* ]]; then
    echo "Adding LIBD modules"
    module use /jhpce/shared/jhpce/modulefiles/libd
    echo "Loading git"
    module load git
    module load git-status-size/github
    module load git-lfs/2.8.0
    module load rmate/1.5.9
    module load conda_R/3.6.x
fi
## To deal with running nextflow without requesting much more memory
##
https://jhpce.jhu.edu/question/why-do-i-get-memory-errors-when-runnin
g-java/
export _JAVA_OPTIONS="-Xms5g -Xmx6g"

```

- JHPCE ~/.sge_request

```

# Check http://www.biostat.jhsph.edu/bit/cluster-usage.html for more
instructions
#
# Set defaults for mem_free and h_vmem
# choose xx!!!!!!
-l mem_free=xxG,h_vmem=xxG
#
# Set the standard value for stack size limit
# (needed for some programs to run properly when h_vmem is set)
-l h_stack=512M
#

```

```
# Set a default maximum file size that an SGE job can create
-l h_fsize=100G
# Define my email
-M YOUR_EMAIL
# To get an email on a job use -m e
```

- Reproducibility R script at JHPCE ~/Reproducibility.R

```
library('sessioninfo')

## Reproducibility information
print('Reproducibility information:')
Sys.time()
proc.time()
options(width = 120)
session_info()
```

- JHPCE ~/.gitconfig contents:

```
[user]
  name = YOUR_GITHUB_USERNAME
  email = YOUR_GITHUB_EMAIL
[alias]
  co = checkout
  br = branch
  ci = commit
  st = status
```

- Add this to your JHPCE ~/.bashrc file:

```
alias labold="cd /dc101/lieber/ajaffe/lab"
```

- For styling a given R script

```
styler::style_file("your_script_name.R", transformers =
styler::tidyverse_style(indent_by = 4))
```