## piping

```
# There are more things in git and piping, Horatio,
# than are dreamt of in your philosophy.
#                   - echo "WS" \
#                       | sed 's/WS/R/' \
#                       | awk '{print $0"M"}'
#

# text tools that support piping
sed streaming editor
awk text processing tool

# files with different statuses
$ git status -s | grep "^UU"
$ git status -s | grep "^ M"

# o is shortcut for my text editor, scite

# open conflicted files
$ git status -s | grep "^UU" | cut -c3- | xargs o

# open files with BitSet in name
$ git ls-files *BitSet* | xargs o
```

```
# alias hidden: show hidden files
$ git ls-files -v | grep '^h' | cut -c3-
$ git hidden

# hide and unhide are aliases
$ git hide
$ git unhide

# hide modified files and then unhide them
$ git status -s | grep "^ M" | xargs git hide
$ git hidden | xargs git unhide

# open files with space in them
$ git ls-files "<sproc>"
    | sed 's/^/"/' | sed 's/$/"/'
    | xargs o

$ git ls-files *<sproc>*
    | awk '{print "\""$0"\""}'
    | xargs o

$ git ls-files -z *<sproc>*
    | xargs -0 o

# 'wrap' wraps any paths in quotes to handle spaces
$ git ls-files "<sproc>" | wrap | xargs o

# 'wrap' is piping-friendly
$ o ~/bin/wrap

# open files with "next"
$ git grep "next" | cut -d':' -f1 | wrap | xargs o
```

```
# delete merged branches except few
$ git branch --merged
    | egrep -v "(\*|master|pu|maint|next)"
    | egrep "cr/"
    | xargs git branch -d

# delete oldest 3 cr/* branches except current
$ git branch --sort=committerdate
    | egrep -v "\*"
    | egrep "cr/"
    | head -3
    | xargs git b -d

# top 2 items
$ ... | head -2
# last 2 items
$ ... | tail -2
# 2nd line item
$ ... | sed -n '2 p'
```

```
## advanced aliases


$ git coe <partial branch>

# multiple branches
$ git coe e
fatal: multiple branches matched
  master
  dev

# fuzzy checkout to branch
$ git coe z
Switched to branch 'temp/lazy'

# custom commands
$ git l
l = git log --pretty=two

# pretty formats
two
one

# aliases running as shell scripts run from /
l = !"git lg2"
# this will still run from /
$ cd to/some/dir && git l .
```

```
## reflog


# <commit> (refs) HEAD@{<i>} summary of operation
#     where <commit> is after the operation

# ref log
$ git reflog -3

# 87dce5f (HEAD -> dev, master) HEAD@{0}: reset: moving to master
# 0733641 HEAD@{1}: rebase -i (finish): returning to refs/heads/dev
# 0733641 HEAD@{2}: rebase -i (pick): Adding BitSet implementation.

$ git reset --hard HEAD@{1}
```

```
## bisect


$ git bisect start
# head is bad
$ git bisect bad
# some commit in past is good
$ git bisect good <commit>
(bisecting)
$ git bisect good|bad
(bisecting)
(08b9bd4 is the first bad commit)
# exit bisect state
$ git bisect reset
```

```
## shortlog


#
# The ~~owls~~ stats are not what they seem.
#

# shortlog with summary, sort, email
$ git shortlog -sne

# .mailmap
- consolidate name/emails

# What to do?
- place at root OR
  outside of repo with mailmap.file path in config
- log.mailmap true
```