

```
# vim: set filetype=text:

* Pipe stdin/out to/from vim - vipe (moreutils)

* Allow some_user to run X programs:
  xhost +si:localuser:some_user

* Show all files in a directory with fbvsp:
  for f in img/*; do [ -f "$f" ] && { clear; fbvsp "$f"; \
  printf "%s\nPress ENTER..." "$f"; read; }; done; clear

* Next cron date+time (needs package cronie for cronnext):
  date -Ins -d "@$(cronnext | cut -d' ' -f2)"

* Just list UUID (needs root, otherwise might output nothing):
  lsblk -no UUID /dev/sda1

* csv2tsv (opinionated - delim=',',quote='"', GNU sed):
  sed -e's/\(["?\\),/\1\t/g' -e's/"\?([\^"]*)"\?/\1/g' \
  < file.csv > file.tsv

* tsv2csv (opinionated - delim=',',quote='"', GNU sed):
  sed -e's/\t/",",g' -e's/^\t"/' -e's/$/"/' < file.tsv > file.csv

* is the process running? human-readable:
  ps -ef | grep [p]rogram_name # [] to skip including grep itself
machine-readable:
  pidof program_name >/dev/null 2>&1 && do_something

* create a PDF from a text file (needs cups, cups-filters):
  /usr/lib/cups/filter/texttopdf 1 1 1 1 1 file.txt > file.pdf
using the user's font (CUPS_DATADIR has charsets subdirectory):
  CUPS_DATADIR=~/.config/cups CHARSET=utf-8 \
  /usr/lib/cups/filter/texttopdf 1 1 1 1 1 file.txt > file.pdf
optimize the above PDF and make the text searchable:
  pdftocairo file.pdf -pdf file-opt.pdf

* list X input devices:
  xinput list

* Necessary changes in config.mk to build 9base statically:
  CFLAGS += -static -fcommon
  LDFLAGS += -static -zmuldefs
Nice to have: uncomment "@strip" line in "all:"

* Restore tmux client after suspend-client (C-b C-z):
  kill -CONT $pidof_tmux_client

* Set xterm (or compatible) title:
  printf '\e]N;new_title\b'
where N is: 0 = set icon + title, 1 = set icon, 2 = set title

* mpv as image viewer:
  mpv --keep-open=always /image/directory
< = Previous image, > = Next image

* List terminal capabilities of terminal type $some_term (for tput):
  infocmp $some_term

* `basename $file` in POSIX shell (note: shell parameter substitution is slow):
  basename=${file%/*}; echo ${basename##*/}
`basename -s .ext $file`:
  basename=${file%/*}; basename=${basename%.ext}; echo ${basename##*/}

* `dirname $file` in POSIX shell:
  case $file in */*) echo ${file%/*};; *) echo .; esac
```

- * Get the name of the first X.Org monitor:
xrandr --listmonitors | sed '/^[^]/d;s/.* \(\S\+\)\\$/\1/;1q'
- * Set window of an X.Org application "on top":
 - With \$part_of_title inside title (case-insensitive):
wmctrl -r \$part_of_title -b add,above
 - With \$window_id (find out with `wmctrl -l`):
wmctrl -i -r \$window_id -b add,above
- * Scroll to the end of file with less (useful for logs):
less +G /some/file
Scroll to the end of file and wait for data (like `tail -f`):
less +F /some/file
Jump to line 123 immediately when starting vim:
vim /some/file +123
- * List in a tree:
 - Files and directories:
tree
 - Mounts:
findmnt
 - Processes:
pstree
 - Packages in Arch-based distributions:
pactree
- * Restrict output to lines with "foo", replacing "foo" with "bar", using only POSIX sed:
 - Print all occurrences:
sed '/foo/s/foo/bar/;t;d'
alternative:
sed -n '/foo/s/foo/bar/p'
 - Print only the first such line:
sed '/foo/s/foo/bar/;te;d;:e q'
alternative:
sed -n '/foo/{s/foo/bar/p;q}'
- * Click a window to get its command with arguments (ps from procps-ng):
ps --no-headers -o '%a' \$(xprop | sed -n \

- * Mount a QEMU qcow2 disk:

```
modprobe nbd max_part=8
qemu-nbd -c /dev/nbd0 /path/to/image.qcow2
mount /dev/nbd0p1 /mnt
```

Unmount it:

```
umount /mnt
qemu-nbd -d /dev/nbd0
rmmod nbd
```
- * Make tcc work for static linking on a glibc-based system (use separately installed musl-libc, for example precompiled from <https://musl.cc>): `$s - dir` where musl is installed (ex. /cross/x86_64-linux-musl)

```
./configure --prefix=/usr --sysroot=$s --config-musl \
--sysincludepaths=$s/include \
--crtprefix=$s/lib \
--libpaths=$s/lib
# sysincludepaths - colon-separated list of directories with files like
#                   stdio.h, stdlib.h etc
# crtprefix        - directory with crt[1in].o
# libpaths         - colon-separated list of directories with libc.a,
#                   ld-*.so.1 -> libc.so etc
```

inside the tcc source directory, then make and make install. Check with:

```
tcc -vv
```

Related:

```
https://lists.nongnu.org/archive/html/tinycc-devel/2010-04/msg00082.html
(tcc still gives similar errors about "undefined symbols" when -static is
used on glibc-based systems).
```
- * For GCC, multiple directories in `startfile_prefix_spec` search path are separated with a space.
- * When booting from a USB flash medium, if it isn't recognized and thus booting stops with a kernel panic, try adding

```
rootdelay=5
```

to the kernel command line. For example:

```
root=/dev/sda2 rootdelay=5
```
- * If neomutt setup using Luke Smith's mutt-wizard refuses to open attachments using programs which `xdg-open` is set to open, edit

```
$PREFIX/lib/mutt-wizard/openfile
```

Probably your system doesn't support ``setsid -f``.
- * If the output from `date(1)` differs for root and ordinary users, besides the obvious (environment variable ``$TZ``), check the permissions on ``/etc/localtime`` and ``/etc/zoneinfo/*`` files and directories. They need to be "R"eadable for "O"thers (``o+r``).
- * In LibreOffice Math, ``func`` directive formats text as upright (regular, non-italic...), useful for units eg.

```
30 func min, 2.5 func kg
```
- * Interactively edit environment variables in ``$EDITOR`` (needs `vipe` from `moreutils`):

```
eval $(printenv | vipe | while read -r line; do
  ident=$(echo "$line" | cut -d= -f1);
  rest=$(echo "$line" | cut -d= -f2);
  printf "export %s=\"%s\"\n" "$ident" "$rest"; done)
```

- * When configuring tcc, be ****very**** careful of what is assigned to `tccdir`:
\$./configure --tccdir=\$tccdir
This directory will be `rm -frv`ed on uninstall! (Found out the hard way -
\$./configure --tccdir=/lib
with later
make uninstall
nuked my /lib.)
- * Current ELinks requires GNU Bash to compile. It declares /bin/sh in shebang, but uses Bash-specific features such as <<<. To build it, instead of
./configure --prefix= # etc.
it is necessary to instead execute
bash ./configure --prefix= # etc.
- * doas in Alpine Linux uses configuration file(s) in /etc/doas.d/ over /etc/doas.conf, resulting in (most likely) unexpected "operation not permitted", which doesn't depend on the contents of /etc/doas.conf at all! Solution: `mv /etc/doas.conf /etc/doas.d/`
- * If sled is used as EDITOR, Busybox's `crontab -e` won't work unless
#define BACKUP_FAIL_OK
is uncommented in config.h.
- * Try to make Syncthing less privacy-intrusive:
Disable automatic check for upgrades
syncthing cli config options auto-upgrade-intervalh set 0
Disable sending crash reports
syncthing cli config options crenabled set false
Set "Global announce" (pinging centralized server) to false
syncthing cli config options global-ann-enabled set false
Disable upgrading to pre-releases
syncthing cli config options upgrade-to-pre-releases set false
Set "Usage Report" (telemetry) sending to "not accepted"
syncthing cli config options uraccepted set -- -1
Set "Usage Report Unique ID" to empty
syncthing cli config options urunique-id set ''
- * ASan only works for Clang/LLVM under Alpine Linux. Libraries for it are located in the package compiler-rt.
- * If `df -h` on Alpine Linux complains about "Permission denied", make sure that the service hwdrivers is ***not*** added to a runlevel. Otherwise, the following error is printed on stdout:
df: /sys/kernel/debug/tracing: Permission denied
- * xenodm is recommended on OpenBSD, but for those who would like to not have the overhead of running a display manager with a dedicated service, there is still a way to use startx (autostart or not) without a DM. To do so, it is needed to set setuid bit on Xorg binary:
chmod +s /usr/X11R6/bin/Xorg
of course, it is needed to disable and stop xenodm if it is running:
rcctl disable xenodm && rcctl stop xenodm
Caution: This does come with the cost of having X setuid. Still, it is possible, contrary to what is stated in the most replies on the matter.
- * If elinks hangs on startup, try stopping gpm. If elinks was compiled with gpm support, sometimes it can get "confused" like that.
- * In suckless st, if the text in bold is shown in yellow instead of white, check the fonts in config.h. You can test this by launching st from within st: mismatched fonts will produce warnings on stderr.