

Pest Control

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Tiling up windows

- awesome
- XMonad
- ion3
- ratpoison

- And plenty of others...

http://en.wikipedia.org/wiki/Tiling_window_manager

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- `awesome`

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Shells

- bash
- tcsh
- zsh

Shells

- `bash`
- `tcsch`
- `zsh`

Don't panic!

- `man`
- `info`

```
> man program
```

```
> man -k keyword
```

```
> program -h
```

```
> program --help
```

Don't panic!

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- `info`

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```
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```

Meowing from tip to toe

- `cat`
- `head`
- `tail`

```
> cat /vol/wwwlogs/www.doc.ic.ac.uk/access.log
```

```
> head -n 10 /vol/wwwlogs/www.doc.ic.ac.uk/access.log
```

```
> tail -f /vol/wwwlogs/www.doc.ic.ac.uk/*.log
```

Meowing from tip to toe

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```

In, out, shake it all about

- 0 - Standard Input, `stdin` or `System.in`
- 1 - Standard Output, `stdout` or `System.out`
- 2 - Standard Error, `stderr` or `System.err`

```
> cat -
```

In, out, shake it all about

- 0 - Standard Input, `stdin` or `System.in`
 - 1 - Standard Output, `stdout` or `System.out`
 - 2 - Standard Error, `stderr` or `System.err`
- > `cat -`

You put your left leg in

- `program < file`
- `program > file`
- `program | program`

```
> cat - > hello.txt
```

```
> ls | head -n 2 > top2Files.txt
```

```
> echo 2 + 2 > /tmp/x
```

```
> cat /tmp/x
```

```
> ghci < /tmp/x
```

You put your left leg in

- `program < file`
- `program > file`
- `program | program`

```
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```
> ls | head -n 2 > top2Files.txt
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```
> echo 2 + 2 > /tmp/x
```

```
> cat /tmp/x
```

```
> ghci < /tmp/x
```

less

```
> less /vol/wwwhomeslogs/server-error.log
```

```
> ghc -e 'mapM_ print [ x * 2 | x <- [1..100]]' | less
```

tee

```
> ghc -e 'mapM_ print (let fibs = 0 : 1 :  
    zipWith (+) fibs (tail fibs) in fibs)' | tee /tmp/fibs
```

tr

```
> echo hello | tr 'eo' 'oy'
```

```
> tr -c [:print:] ' ' < /dev/urandom
```

awk, sort, uniq, wc

```
> cat /vol/wwwhomeslogs/wwwhomes.doc.ic.ac.uk/access.log  
| awk '{print $2}'  
  
> cat /vol/wwwhomeslogs/wwwhomes.doc.ic.ac.uk/access.log  
| awk '$2 ~ /^66/ {print $2}'  
  
> cat /vol/wwwhomeslogs/wwwhomes.doc.ic.ac.uk/access.log  
| awk '$2 ~ /^66/ {print $2}' | sort | uniq -c  
  
> cat /vol/wwwhomeslogs/wwwhomes.doc.ic.ac.uk/access.log  
| awk '$2 ~ /^66/ {print $2}' | sort | uniq | wc -l
```

find

```
> find /vol/wwwhomeslogs/ -name "*.log"
```

```
> find /vol/wwwhomeslogs/ -name "*.log" -exec wc -l '{} ' ';' 
```

```
> find ~tora/git -maxdepth 2 -type d -name ".git"
```

grep

```
> grep "tora"  
/vol/wwwhomeslogs/wwwhomes.doc.ic.ac.uk/access.log  
  
> ghc -e 'mapM_ print [1..]' 2>/dev/null | grep '4.4' | head  
  
> grep "main :: IO ()" -l --include="*.hs" -R ~tora/git/endo
```

sed

```
> man man | sed 's/man/ARGH/g' | less
```

```
> ls /vol/wwwhomeslogs/ | grep server-error  
| sed 's/[^0-9]*//g' | head
```

Shell tricks

```
> echo `find . -name "*.hs"`  
  
> wc -l `find . -name "*.hs"`  
  
> wc -l `find . -name "*.hs"` | sort -nk1  
  
> echo "plot `wc -l \ `find . -name "*.hs"\ `  
  | sort -nk1 | head -n-1`" | gnuplot -p
```

netcat

```
> nc -l 8080  
> echo "hello!" | nc localhost 8080  
  
> echo -e "GET / HTTP/1.0\n\n"  
  | netcat -q -l www.google.com 80
```

ssh

```
> ssh shell1.doc.ic.ac.uk  
  
> ssh shell1.doc.ic.ac.uk who  
  
> ssh shell1.doc.ic.ac.uk nc -l 10005  
> ssh -N -L 8080:localhost:10005 shell1.doc.ic.ac.uk  
> echo "hello!" | nc localhost 8080  
  
> ssh -X agile 'cd ~/git/endo ; gitk'
```

mail and uuencode

```
> mail -s "Who needs a GUI?" tora < message
```

```
> tar -czf - src | uuencode src.tar.gz | mail tora
```

screen and tmux

```
> screen -S session
```

```
help - [Ctrl-A ?]
```

```
split - [Ctrl-A S]
```

```
new shell - [Ctrl-A c]
```

```
detach - [Ctrl-A Ctrl-D]
```

```
> screen -dr session
```

```
> screen -x session
```

```
> tmux new -s session
```

```
help - [Ctrl-B ?]
```

```
split - [Ctrl-B :split]
```

```
new shell - [Ctrl-B c]
```

```
detach - [Ctrl-B d]
```

```
> tmux attach -t session
```

A life without mice?

- **Email:** mutt, pine
- **Web:** w3m, lynx, links2
- **Tiling-WMs for console:** tmux, dvtm

Moon buggy

```
> wget
  http://seehuhn.de/media/programs/moon-buggy-1.0.51.tar.gz
> tar -xzf moon-buggy-1.0.51.tar.gz
> cd moon-buggy-1.0.51/
> ./configure --prefix=/tmp/moon && make && make install
> /tmp/moon/bin/moon-buggy
```

Be careful! New moon tonight.

```
> nethack
```