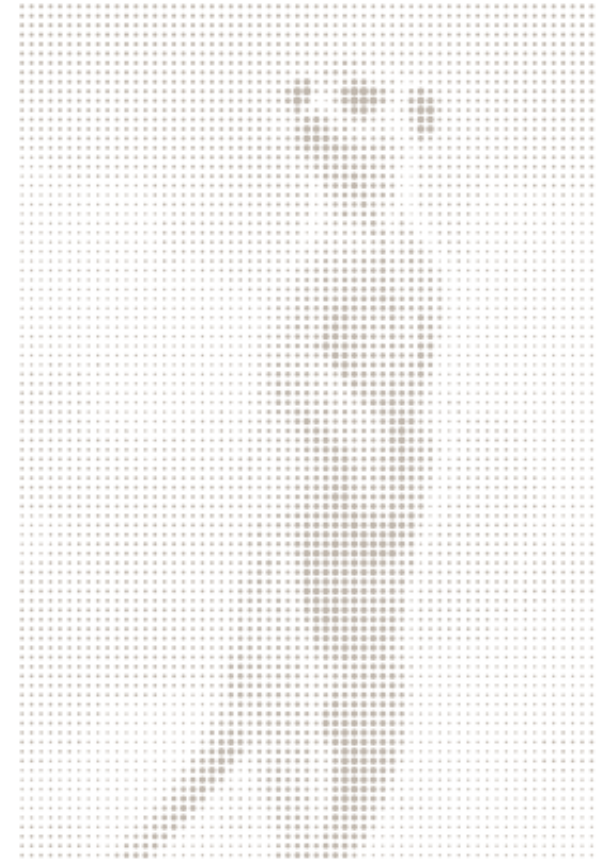
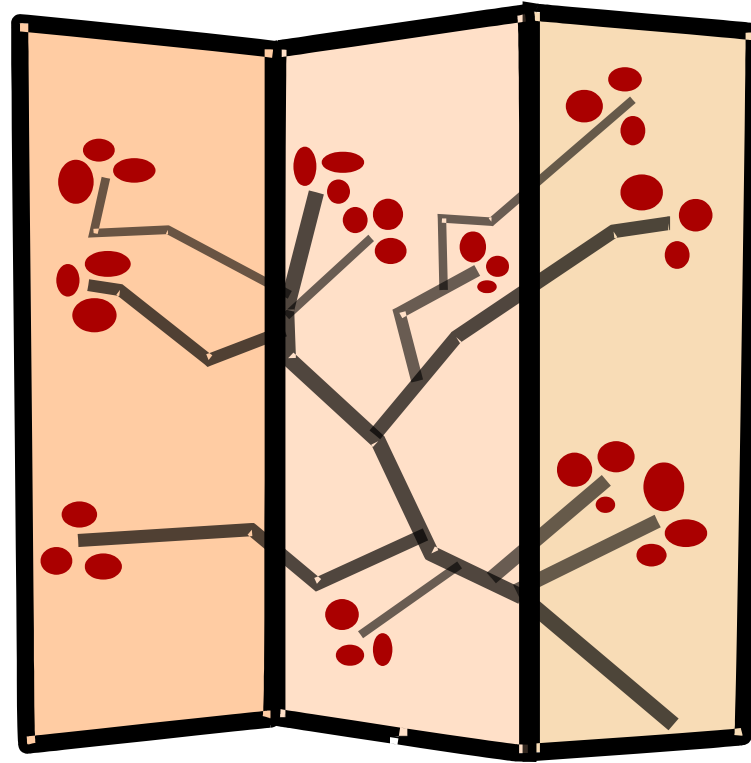


Byobu

GNU Screen for Human Beings

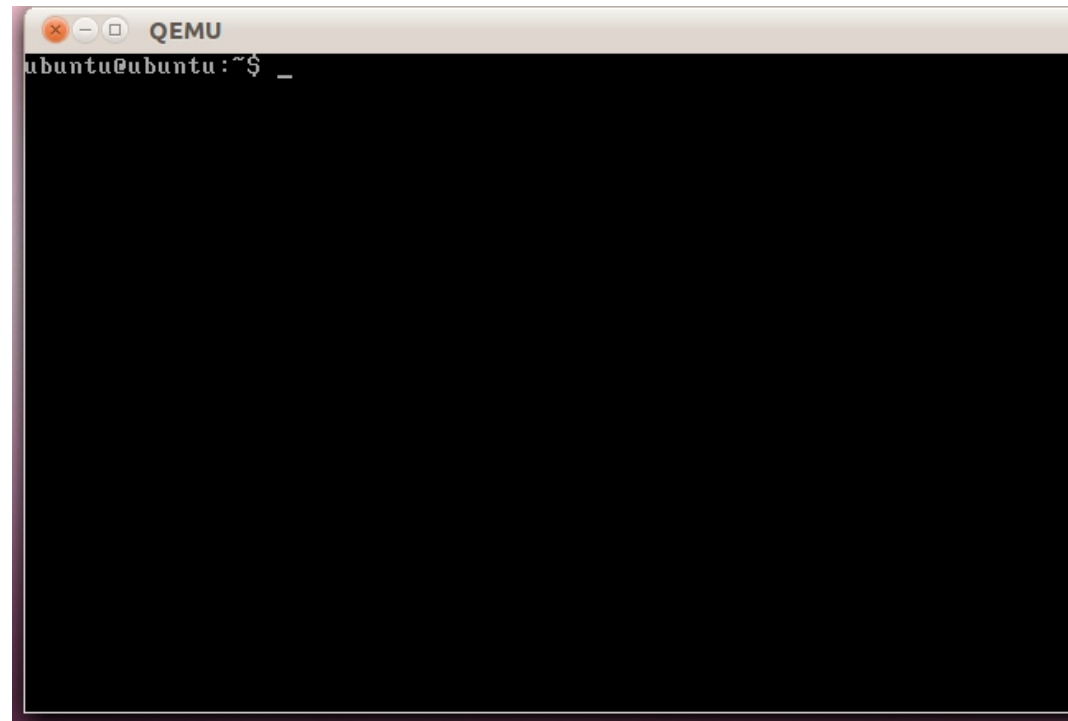
Dustin Kirkland
Ubuntu Core Developer
kirkland@ubuntu.com





屏風 **byō-bu**: Japanese word for a decorative, multi-panel *screen* that serves as an elegant folding room divider

- Venerable text-only, window manager
- Plain, functional
- Multiple windows
- Attach/detach/share sessions
- Very configurable, powerful
- Complex key sequences
- Complex configuration
- Manpage is ~3000 lines



Byobu

- Advanced tweaks, helpers, and extensions for GNU Screen
- Convenient keybindings
- Curses configuration app
- Dynamic, colorful, intuitive, toggle-able status panel
- Detailed status callout
- Tabbed window panel
- Multiple backgrounds
- Profile export utility

A screenshot of a QEMU terminal window. The window title is "QEMU". The terminal shows a shell prompt "ubuntu@ubuntu:~\$ _". At the bottom, there is a status panel with the following information: "0*\$ shell", "U Ubuntu 10.10", "23h12m", "^0kbps", "v0kbps", "0.20", "4x2.7GHz", "998MB, 18%", and "2011-02-23 14:0". The status panel is colorful and provides detailed system information.

Too complex?

Screen key bindings, page 1 of 3.

Command key: ^A Literal ^A: a

break	^B b	license	,	removebuf	=
clear	C	lockscreen	^X x	reset	Z
colon	:	log	H	screen	^C c
copy	^[[login	L	select	'
detach	^D d	meta	a	silence	_
digraph	^V	monitor	M	split	S
displays	*	next	^@ ^N sp n	suspend	^Z z
dumftermcap	.	number	N	time	^T t
fit	F	only	Q	title	A
flow	^F f	other	^A	vbell	^G
focus	^I	pow_break	B	version	v
hardcopy	h	pow_detach	D	width	W
help	?	prev	^H ^P p ^?	windows	^W w
history	{ }	quit	\	wrap	^R r
info	i	readbuf	<	writebuf	>
kill	K k	redisplay	^L l	xoff	^S s

Much simpler!

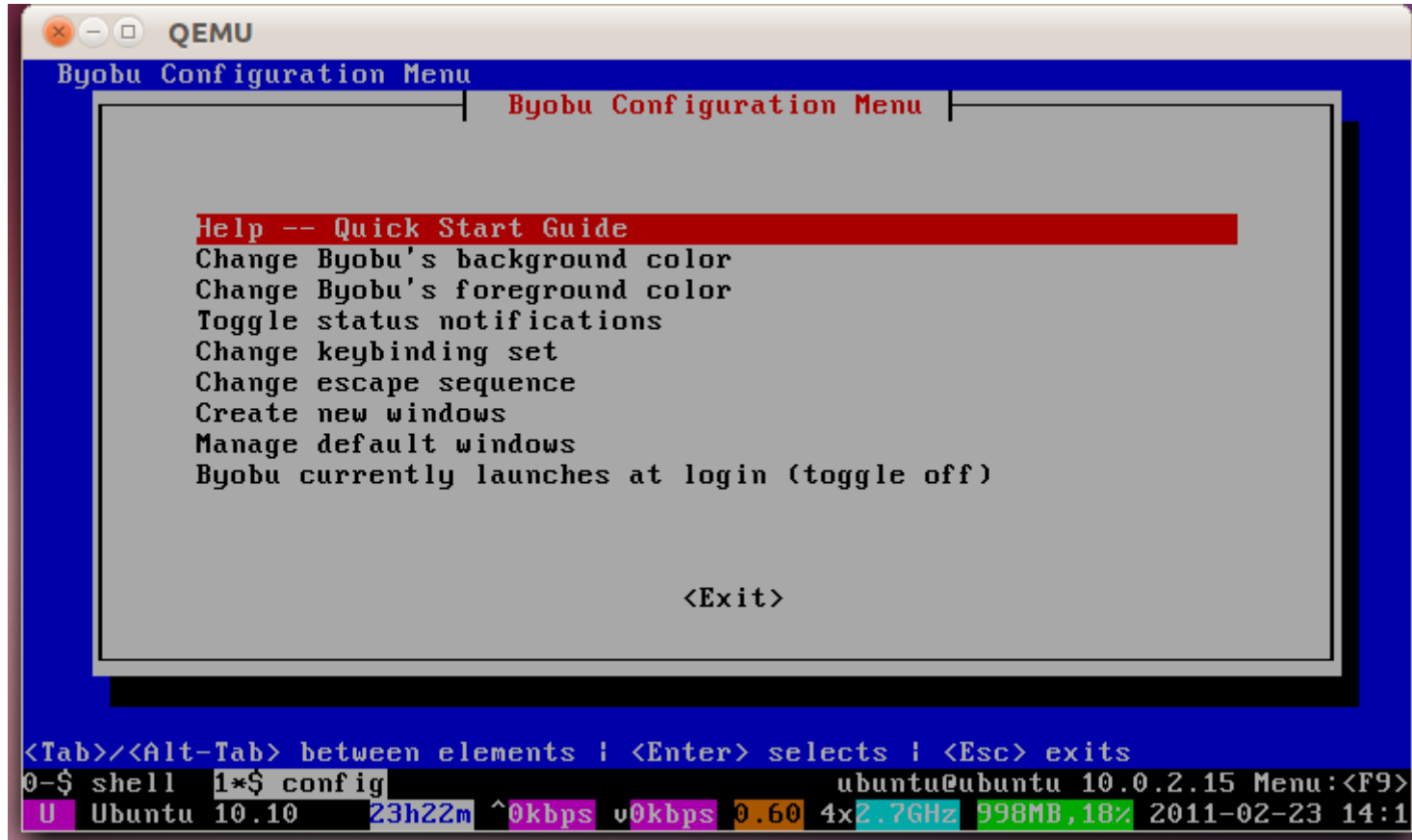
Byobu Default Hotkeys

F2	Create a new window
F3	Go to the previous window
F4	Go to the next window
F5	Reload profile
F6	Detach from the session
F7	Enter scrollback mode
F8	Re-title a window
F9	Configuration
F12	Lock this terminal

```
startup_message off
vbell off
msgwait 1
backtick 99 86400 86400 $HOME/.byobu/byobu-status logo
backtick 100 3600 3600 $HOME/.byobu/byobu-status release
backtick 101 10 10 $HOME/.byobu/byobu-status updates-available
...
backtick 123 86400 86400 $HOME/.byobu/byobu-status disk-available
backtick 124 2 2 $HOME/.byobu/byobu-status disk-used
hardstatus alwayslastline
termcapinfo xterm* ti@:te@
altscreen on
defscrollback 10000
register n "^a^c"
bindkey -k k2 process n
bindkey -k k3 prev
bindkey -k k4 next
register r "^a:source $HOME/.byobu/profile^M"
bindkey -k k5 process r
bindkey -k k6 detach
bindkey -k k7 copy
register t "^aA^aa^k^h"
bindkey -k k8 process t
bindkey -k F2 lockscreen
bind $ screen -t status 0 byobu-status-detail
caption always "%{wK}%?%-Lw%?%{bw}%n*%f %t%?(%u)%?%{wK}%?%+Lw%? %= %={= Kw}%110`%109`%122`%111`"
hardstatus string '%99`%{= Kw} %100`%112`= %102`%101`%114`%115`%108`%113`%119`%117`%118`%116`%106`%104`%103`%105`%107`%123`%124`%120`%121`'
```

Too Complex!

<F9>



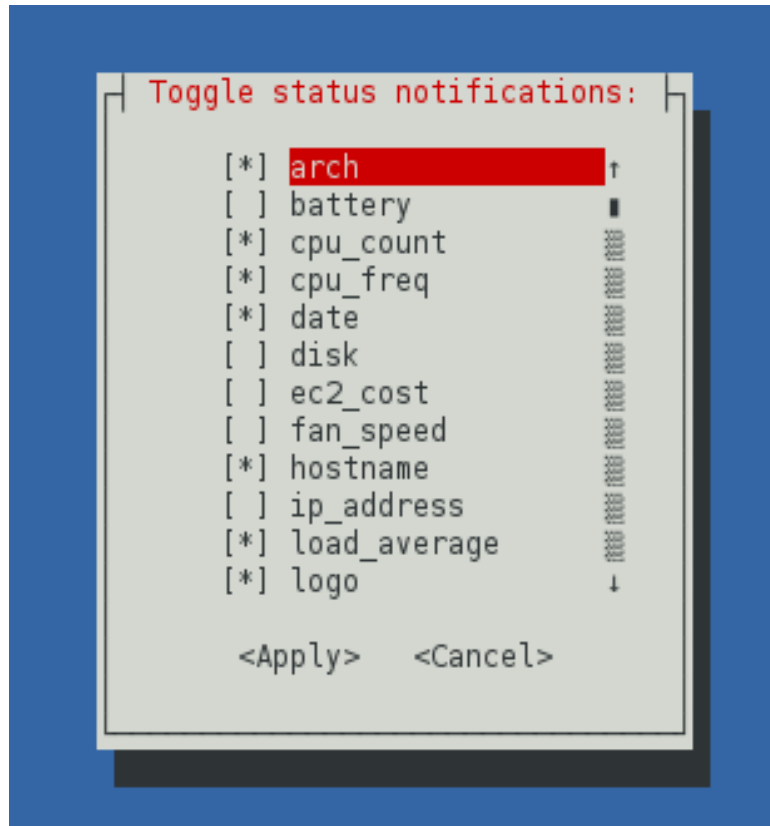
The image shows a terminal window titled "QEMU" with a blue border. Inside, the "Byobu Configuration Menu" is displayed. The menu items are: "Help -- Quick Start Guide" (highlighted in red), "Change Byobu's background color", "Change Byobu's foreground color", "Toggle status notifications", "Change keybinding set", "Change escape sequence", "Create new windows", "Manage default windows", and "Byobu currently launches at login (toggle off)". At the bottom of the menu, it says "<Exit>". Below the menu, there is a line of instructions: "<Tab>/<Alt-Tab> between elements ; <Enter> selects ; <Esc> exits". The terminal prompt shows "0-\$ shell 1*\$ config" and the user is logged in as "ubuntu@ubuntu 10.0.2.15 Menu:<F9>". At the very bottom, a system status bar shows: "U Ubuntu 10.10 23h22m ^0kbps v0kbps 0.60 4x2.7GHz 998MB,18% 2011-02-23 14:1".

```
QEMU
Byobu Configuration Menu
Byobu Configuration Menu

Help -- Quick Start Guide
Change Byobu's background color
Change Byobu's foreground color
Toggle status notifications
Change keybinding set
Change escape sequence
Create new windows
Manage default windows
Byobu currently launches at login (toggle off)

<Exit>

<Tab>/<Alt-Tab> between elements ; <Enter> selects ; <Esc> exits
0-$ shell 1*$ config ubuntu@ubuntu 10.0.2.15 Menu:<F9>
U Ubuntu 10.10 23h22m ^0kbps v0kbps 0.60 4x2.7GHz 998MB,18% 2011-02-23 14:1
```

apport
arch
battery
cpu_count
cpu_freq
cpu_temp
custom
date
disk
disk_io
ec2_cost
fan_speed
hostname
ip_address
load_average
logo
mail
mem_available
mem_used
menu
network
notify_osd
processes
raid
rcs_cost
reboot_required
release
services
swap
time
time_utc
updates_available
uptime
users
whoami
wifi_quality

Cute story time...

```
$ $EDITOR ~/.byobu/bin/5_wink

#!/bin/sh
if [ -f /tmp/wink ]; then
    echo ":)"
    rm /tmp/wink
else
    echo ";)"
    touch /tmp/wink
fi
```

Attempt at a practical example...

```
$ $EDITOR ~/.byobu/bin/5_TCP-Established

#!/bin/sh
netstat -ptan | grep ESTABLISHED | wc -l
```

- Byobu can be configured to launch automatically on local or remote login
- Ensure that you can attach/detach to/from your session later
- Useful for unreliable client connections like remote wifi
- Useful for long running commands, like rsync's, wget's, and make's

Debian / Ubuntu:

```
$ sudo apt-get install byobu
$ byobu
```

Fedora / RHEL / CentOS

<https://admin.fedoraproject.org/pkgdb/applications/Byobu%20Window%20Manager>
OR:
<http://bit.ly/byobu-rpm>

Byobu is in the official Fedora repos for F11-F14, also in the EPEL5 repo for RHEL.

```
$ su -c 'yum install byobu'
```

... of text window managers!

Ubuntu:

```
$ sudo add-apt-repository ppa:byobu/ppa  
$ sudo apt-get update  
$ sudo apt-get install byobu
```

OR....

- Download the latest from:
 - <https://launchpad.net/byobu/+download>
- Uncompress and `cd byobu*`
- Run `./configure --prefix=$HOME/somewhere && make && make install`
- Update your PATH with `export PATH=$PATH:$HOME/somewhere/bin`
- And then just run `byobu`

Also handy when you don't happen to be root.

<http://launchpad.net/byobu>
<http://manpages.ubuntu.com/byobu>

Byobu was designed, written, and is maintained by Dustin Kirkland and released under the GPLv3.

