



MORE ON BYOBV

COMPOUNDING MANY SMALL CHANGES FOR LARGER EFFECTS

Dirk Edelbuettel

7⁴ Video Lightning Talk #005

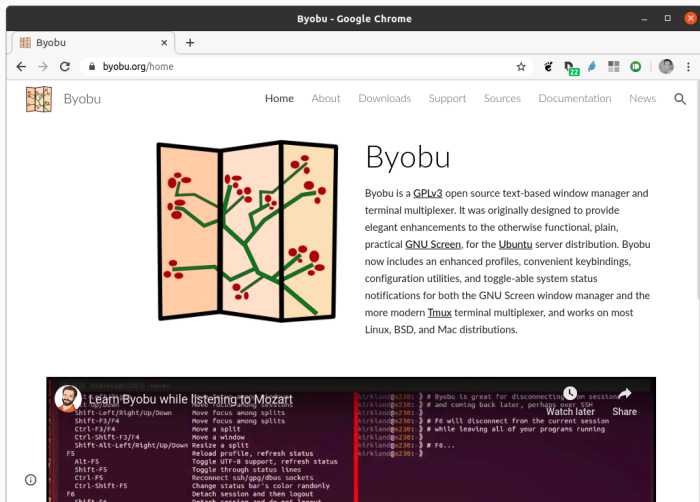
Jun 7, 2020

Previously we

- Introduced the series with an overview in [episode 000](#)
- Episodes [001](#), [002](#), and [003](#) covered shell customization
- Saw a first introduction to byobu in [004](#)
- And the [GitHub repo t4](#) for comments, questions etc

Introducing 'byobu' again

- A 'text based window manager'
- A powerful way to have multiple *persistent* sessions
- Ideal for both session over the network
- Or your local setup on laptop or server
- Last week, while long at 12 minutes, felt rushed



Byobu - Google Chrome

Byobu | Home | About | Downloads | Support | Sources | Documentation | News

Byobu

Byobu is a [GPLv3](#) open source text-based window manager and terminal multiplexer. It was originally designed to provide elegant enhancements to the otherwise functional, plain, practical [GNU Screen](#), for the [Ubuntu](#) server distribution. Byobu now includes an enhanced profiles, convenient keybindings, configuration utilities, and toggle-able system status notifications for both the GNU Screen window manager and the more modern [Tmux](#) terminal multiplexer, and works on most Linux, BSD, and Mac distributions.

```
Learn Byobu while listening to Mozart
-----
shift-left/right/up/down  Move focus among splits
Shift-F3/F4                Move focus among splits
Ctrl-F3/F4                 Move a split
Ctrl-SHIFT-F3/F4           Move a window
Shift-Alt-Left/Right/Up/Down  Resize a split
F5                          Reload profile, refresh status
Alt-F5                      Toggle UTF-8 support, refresh status
Shift-F5                    Toggle through status lines
Ctrl-F5                     Reconnect ssh/gpg/dbus sockets
Ctrl-SHIFT-F5               Change status bar's color randomly
F6                           Detach session and then logout
Shift-F6                    Detach session and do not logout
```

kirklano@x230: ~\$ Byobu is great for disconnecting a session and coming back later, perhaps you'd like to watch later

kirklano@x230: ~\$ # F6 will disconnect from the current session

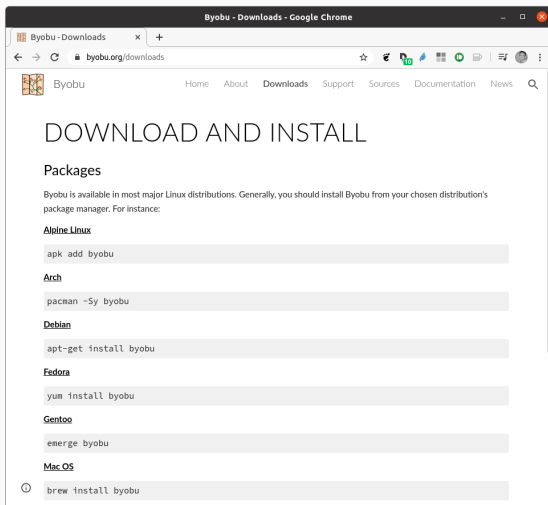
kirklano@x230: ~\$ # while leaving all of your programs running

kirklano@x230: ~\$ # F6...

kirklano@x230: ~\$

Source: <https://www.byobu.org>

BYOBU DOWNLOADS



The screenshot shows a Google Chrome browser window displaying the 'Byobu - Downloads' page. The browser's address bar shows the URL 'byobu.org/downloads'. The page features a navigation menu with links for Home, About, Downloads, Support, Sources, Documentation, and News. The main heading is 'DOWNLOAD AND INSTALL', followed by a sub-heading 'Packages'. Below this, a paragraph explains that Byobu is available in most major Linux distributions and provides installation instructions for several systems: Alpine Linux (apk add byobu), Arch (pacman -Sy byobu), Debian (apt-get install byobu), Fedora (yum install byobu), Gentoo (emerge byobu), and Mac OS (brew install byobu).

Byobu - Downloads - Google Chrome

Byobu - Downloads x +

byobu.org/downloads

Byobu Home About Downloads Support Sources Documentation News

DOWNLOAD AND INSTALL

Packages

Byobu is available in most major Linux distributions. Generally, you should install Byobu from your chosen distribution's package manager. For instance:

Alpine Linux

```
apk add byobu
```

Arch

```
pacman -Sy byobu
```

Debian

```
apt-get install byobu
```

Fedora

```
yum install byobu
```

Gentoo

```
emerge byobu
```

Mac OS

```
brew install byobu
```

Source: <https://www.byobu.org/downloads>

Main operations (from last week)

- Help on keys (Shift-F1)
- Menu (F9) and Status Display
- New window (prefix-c)
- Name window (prefix-a)
- Running through windows (alt-left, alt-right)
- Vertical split (Ctrl-F2), Horizontal split (Shift-F2)
- Zoom in/out of split (Shift-F11)
- Rearrange splits (Shift-F8)
- Detach / attach
- Kill terminal ... and resume

Key elements I did not stress

- *Multiple sessions*
- Sessions auto-resizing to the *largest common* size
- Usable wherever a terminal can be used
- Consider DEMO session with
 - a (fake) long running job
 - a watcher screen tailing the log
 - (sample script will be posted at t4 repo)

Another key feature (too advanced for demo)

- byobu uses (by default) one socket
- you can designate a particular socket
- and share 'write' permission with another users
- and BAM you have *multi-session multi-user* work
- for *any* application that can run a terminal

Maybe some more **byobu**

- Session management?
- Other topics?
- Likely Next Sunday

SERIES RESOURCE

The screenshot shows the GitHub interface for the repository 'eddelbuettel / t4'. At the top, there are navigation options: 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The repository name is 'eddelbuettel / t4' with 1 Unwatch, 1 Star, and 0 Forks. Below the repository name, it says 'Support repo for T⁴ Video Lightning Talks' and 'Manage topics'. The repository statistics show 1 commit, 1 branch, 0 packages, 0 releases, and 1 contributor. There are buttons for 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The commit history shows two entries: 'eddelbuettel initial commit' (latest commit 21b22f5, 31 seconds ago) and 'README.md initial commit' (31 seconds ago). The selected file is 'README.md'. The content of the README.md file is displayed below, starting with the title 't4: Tips, Trick, Tools and Toys'.

eddelbuettel / t4

Support repo for T⁴ Video Lightning Talks

1 commit 1 branch 0 packages 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

eddelbuettel initial commit Latest commit 21b22f5 31 seconds ago

README.md initial commit 31 seconds ago

README.md

t4: Tips, Trick, Tools and Toys

What Is This?

An informal series of *lightning talks* taped as videos and supported by a few slides. Focused on a few little ticks and tricks, or tools, or toys, to make computing life just that little bit easier.

Schedule so far

with the [initial video](#) and [slides](#)

What Else?

Please use the [issue tracker](#) to provide feedback, corrections, ideas, ...

Who

Dirk Eddelbuettel

Source: <https://github.com/eddelbuettel/t4>

THANK YOU!

slides <http://dirk.eddelbuettel.com/presentations/>

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twitter [@eddelbuettel](https://twitter.com/eddelbuettel)

repo <https://github.com/eddelbuettel/t4>