i3 Window Manager

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<u>Tiling Window Managers</u>

- ·No overlap (tiles)
- Keyboard shortcuts
- ·Lightweight
- Minimalistic

Popular Tiling WMs

- · awesome
- xmonad
- · dwm
- · wmii
- · Dozens others...









```
Welcome to Arch Linux world domination Inc. <+> Sock Puppet says: Don't forget to take care of
      Hail_Spaceca so is there a way to figure out what environment context xfce would be
                    running in and change that PATH?
            oskude Hail_Spacecake: i add my own paths in */.bashrc. but i use startx, so i
                    have them even for xorg apps
               dli Hail_Spacecake, $PATH is for shell, so, something like ~/.bashrc is better
            tzervo) or even better, .bash_profile
               dli) slava_dp, usually, root $PATH doesn't include /usr/local/bin by default,
                    freebsd is an exception though
            twiggz> everything added by the user should be put in /usr/local...like
                    freebsd...most linux distros just let the application maintainers let the
            twiggz) which is bullshit
 00:49:38 edma2/+i 5:freenode/#archlinux/+Cont Act: 3
#archlinux> [
[0] 0:irssi* 1:zsh- 2:pdf 3:ncmpcpp
                                                                        "lenovo" 00:49 03-Dec-10
             if(XQueryTree(dpy, root, &d1, &d2, &wins, &num)) {
                      for(i = 0; i < num; i++) {
                             if(!XGetWindowAttributes(dpy, wins[i], &wa)
                             || wa.override_redirect || XGetTransientForHint(dpu, wins[i], &d1))
                             if(wa.map_state == IsViewable || getstate(wins[i]) == IconicState)
                                     manage(wins[i], &wa);
                     for(i = 0; i < num; i++) { /* now the transients */
                             if(!XGetWindowAttributes(dpy, wins[i], &wa))
                             if(XGetTransientForHint(dpy, wins[i], &d1)
                             && (wa.map_state == IsViewable || qetstate(wins[i]) == IconicState)
                                                                                                                                           Load average: 1 00 1.09 1.15
                                     manage(wins[i], &wa);
                             XFree(wins);
                                                                                                  Media library
                                                                              1457,3-17
                                                                                            70%
                                                                                                   Perfect Circle
katana_1024x768.jpg
katana_1680x1050.jpg
edma2 [4] ~/pics % cd screens
edma2 [5] ~/pics/screens % scrot -cd 5
                                                                                                                                                        18 - Thinking Of You
Taking shot in 5.. 4.. 3.. 2.. 1..
```

mpd: | vol:53% | bat:98% | Fri 03 Dec 12:49:26 AM

"dev "web "irc "misc [#] "<zsh: ~/pics/screens>

p F3SearchF4InvertF5Tree F6SortByF7Nice -F8Nice +F9Ki May 28 09:51:29 deski kernel: [grm] Initialized card for her sum.

May 28 10:05:03 deski gconfd (robert-15832): (Version 2.16.1) wird gestartet, Prozesskennung 15832, Benutzer »robert«

May 28 09:51:29 deski kernel: [drm] Initialized card for AGP DMA.

May 28 09:51:29 deski kernel: agpgart: Putting AGP V2 device at 0000:00:00.00.0 into 4x mode

May 28 09:51:29 deski kernel: agpgart: Putting AGP V2 device at 0000:01:00.0 into 4x mode

720 S 0.0 0.4 0:00.00 /usr/sbin/**exim4** -bd -q5m

0.0 0.3 0:00.08 /sbin/**sysload**

0.0 0.3 0:00.00 /usr/sbin/cron

0.0 0.3 0:00.00 bash

gqview

awesome

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A window manager is probably one of the most used software in your day-to-day tasks, with your Web browser, mail reader and text editor. Power users and programmers have a big range of choice between several tools for these day-to-day tasks. Some are heavily extensible and configurable.

awesome tries to complete these tools with what we miss: an extensible, highly configurable window manager.

To achieve this goal, awesome has been designed as a framework window manager. It's extremely fast, small, dynamic and heavily extensible using the Lua programming language

We provide an easily usable and very-well documented API to configure and define the behaviour of your window manager.

Did you ever imagine press one key and see all your windows arranged automagically?

Did you ever imagine type a window's name and get it back in front of you?

Did you ever imagine ssh to a computer and see the load average of this one to be graphed directly in the titlebar of your terminal emulator?

awesome allow you to do that, and more, as long as you can express it in a programming language.

Features and non-features

- × Very stable;
- × Complete and very well documented source code and API;
- × No mouse needed: everything can be performed with keyboard;
- × Real multihead support (XRandR, Xinerama or Zaphod mode);
- × Implement many Freedesktop standards: EWMH, XDG Base Directory, XEmbed, System Tray;
- Some real transparency support (using Composite extension and xcompmgr);
- × Doesn't distinguish between layers: there is no floating or tiled layer;
- imes Whether or not the clients of currently selected tag(s) are in tiled layout, you can rearrange them on the fly. Popup and fixed-size windows are always floating, however;
- imes Layout handling: can automatically manage your windows placement according to the chosen policy for each tag;
- × Use tags instead of workspaces: allow to place clients on several tags, and display several tags at the same time;
- × D-Bus support;
- × And more.

This gonna be LEGEN... wait for it... DARY!

34 Developers

Copyleft 2007-2008, awesome project

Last edited Wed Jul 9 19:44:40 2008

19 define the behaviour of your window manager. 24 Did you ever imagine type a window's name and get it back in front of you? 26 Did you ever imagine *ssh* to a computer and see the load average of this one 27 to be graphed directly in the titlebar of your terminal emulator? 29 **awesome** allow you to do that, and more, as long as you can express it in a 30 programming language. 32 # Features and non-features * Very stable, fast, small and simple; 34 * Complete and very well documented source code and API; 37 * Implement many [Freedesktop](http://www.freedesktop.org) standards: [XDG Base Directory](http://standards.freedesktop.org/basedir-spec/basedir-sp [System Tray](http://standards.freedesktop.org/systemtray-spec/systemtra 42 * Some real transparency support (using Composite extension and xcompmgr); * Doesn't distinguish between layers: there is no floating or tiled layer; 44 * Whether or not the clients of currently selected tag(s) are in tiled layout, you can rearrange them on the fly. Popup and fixed-size windows are * Layout handling: automatically manage your windows placement according to 50 display several tags at the same time; index.ndwn [ikiwiki] 33.37 80% 492 r Jul 02 Marco Candrian (1.6K) [PATCH] [widgets/progressbar] add fg_off to s --Mutt: =list-awesome/ [Msgs:516 19M]---(threads/date)----------(95%)---Fron: calmar <mac@calmar.ws> To: awesome@naquadah.org Subject: Re: [PATCH] [widgets/progressbar] add fg_off to set + fix copy/paste typo Date: Wed, 2 Jul 2008 02:54:42 +0200 Mail-Followup-To: calmar <mac@calmar.ws>, awesome@naquadah.org Jser-Agent: Mutt/1.5.17 (2008-04-09) apa: Sianature made Wed Jul 2 02:54:42 2008 CEST usina DSA key ID 59D90F4D gpg: Good signature from "Marco Candrian <mac@calmar.ws> gpg: WARNING: This key is not certified with a trusted signature! There is no indication that the signature belongs to the owner. On Wed, Jul 02, 2008 at 02:48:35AM +0200, marco candrian wrote:

there is another issue with the progressbar (probably also with

area_t is used as something like a vector - for the color-gradient.

Therefore width and height can have negativ values, and therefore

So, either something different to area_t as a 'vector' has to be

Re: [PATCH] [widgets/progressbar] add -- (69%)

should not but unsignet, what area_t is so.

the graph).

Fact: Tiling WMs are better than Stacking WMs

- Great increase in productivity
- Highly customizable
- ·Utilities from other WMs can still be used



Characteristics of i3wm

- Direct control of window tree
- · Settings stored in easily-read text file
- vim-like window navigation and resizing
- Floating window support (good for popups)

<u>i3bar</u>

- · Area to display system statistics
- ·User configurable (accepts JSON input)
- · Uses 'i3status' by default
- Supports click events

.07GB|0KB|0KB|22:44PM|95%|42.0C 📶 🗲 🍜

Check out my config and find example i3bar scripts @

http://github.com/Evidlo/i3config/

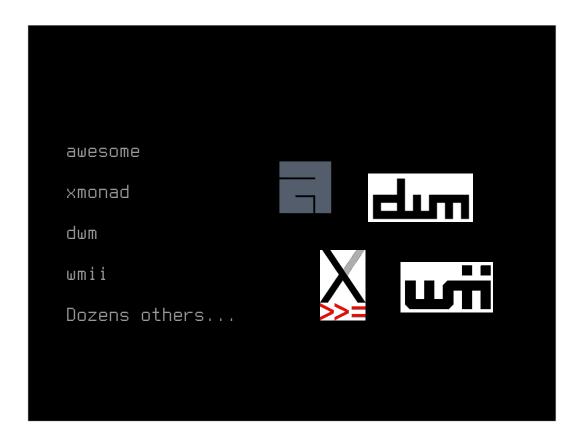


how many have used tiling wm?

how many know what a tiling wm is?

```
No overlap (tiles)
Keyboard shortcuts
Lightweight
Minimalistic
```

a few key characteristics of a tiling wm



common tiling window managers

big list of others on wikipedia if you want to try them

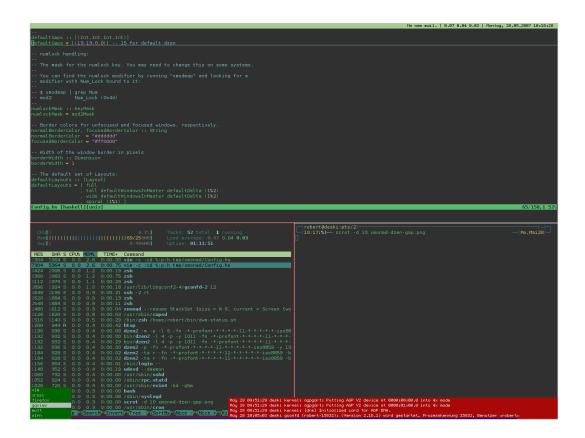
```
come root's $PATH does not include /usr/local/bin in archlinux??
l_Spacecake: i add my own paths in ~/.bashrc. but i use startx, so i
 them even for xorg apps
 _Spacecake, $PATH is for shell, so, something like ~/.bashrc is better
even better, .bash_profile
va_dp, usually, root $PATH doesn't include /usr/local/bin by default,
ebsd is an exception though
rything added by the user should be put in /usr/local...like
ebsd...most linux distros just let the application maintainers let the t fly wherever they tell it to...
ch is bullshit
reenode/#archlinux/+Cont Act: 3
                                                  "lenovo" 00:49 03-Dec-10
df 3:ncmpcpp
ree(dpy, root, &d1, &d2, &wins, &num)) {
if(wa.map_state == IsViewable || getstate(wins[i]) == IconicState)
              manage(wins[i], &wa);
         i < num; i++) { /* now the transients
```

dwm, written in C

~20KB

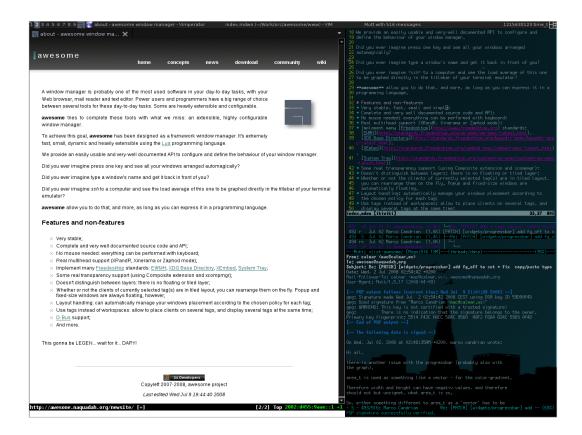
goal of creator: <2000

no configuration file, edit headers as configuration



xmonad - written in haskell

interesting fact: windows 1.0 had a tiling window manager



awesome -

lots of tiling wm's are similar

Great increase in productivity
Highly customizable
Utilities from other WMs can still be used



started in 2009, written in c, good documentation

differences:

uses text configuration file split and move windows any way you want

- -open new workspace, create windows
- -keyboard navigation much faster than swapping between mouse and keyboard
- -vim like navigation, resizing
- -move windows around/different workspace
- -floating windows calculator
- -can still use xfce utilities
- -config change modkeys, set shortcuts, set colors

Direct control of window tree

Settings stored in easily-read text file

vim-like window navigation and resizing

Floating window support (good for popups)

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