



<http://i3wm.org>

# i3wm

improved tiling window manager

# Overview

1. What is a Window Manager?
2. Desktop Environments
3. Types of Window Managers
4. Why should we care?
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6. Practical examples
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  - b. Usage and more!

# What is a Window Manager?

System software that controls the placement and appearance of windows within a windowing system in a graphical user interface (GUI).

It can be part of a desktop environment (DE) or be used standalone.

# Desktop Environments

Windows 7 Aero

Windows 8 Modern

Mac OS X Aqua

And for Linux... Unity, KDE, XFCE, LXDE,  
Cinnamon, Pantheon and more.

# Stacking/Floating Window Managers

Provide the traditional desktop metaphor used in commercial operating systems like Windows and OS X. Windows act like pieces of paper on a desk, and can be stacked on top of each other

Enlightenment, Fluxbox, Metacity, Openbox



# Tiling Window Managers

Windows are laid out as "tiles" so that none are overlapping. They usually make very extensive use of key-bindings and have less (or no) reliance on the mouse.

Tiling window managers may be manual, offer predefined layouts, or both.

i3, xmonad, Ratpoison, Bspwm

Home

Places

- Recent
- Home
- Desktop
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- Trash

Devices

- Computer

Bookmarks

- storage
- rit

Network

- Browse Network
- Connect to Server

Desktop

Documents

Downloads

Music

Pictures

Public

Software

Templates

Videos

X17-58997.iso

File Edit View Search Terminal Help

```

1  [||||] 5.3%] 5 [||||] 6.1%]
2  [||||] 5.1%] 6 [||||] 2.8%]
3  [||||] 3.8%] 7 [||||] 6.2%]
4  [||||] 3.3%] 8 [||||] 2.8%]
Mem[|||||||1626/7853MB] Tasks: 107, 245 thr; 1 running
Swp[|||||0/3904MB] Load average: 1.31 1.60 1.92
Uptime: 06:01:40

```

PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
28316	mark	20	0	808M	123M	49520	S	10.0	1.6	0:25.15	/opt/google/
28566	mark	20	0	953M	287M	55460	S	9.5	3.7	0:37.16	/opt/google/
28244	mark	20	0	1659M	240M	99132	S	8.5	3.1	0:47.95	/opt/google/
28283	mark	20	0	649M	194M	135M	S	4.7	2.5	0:16.53	/opt/google/
28279	mark	20	0	1659M	240M	99132	S	3.3	3.1	0:16.25	/opt/google/
28575	mark	20	0	953M	287M	55460	S	2.8	3.7	0:07.12	/opt/google/
2872	mark	9	-11	428M	11388	8520	S	2.4	0.1	10:15.22	/usr/bin/pul
2873	mark	-6	0	428M	11388	8520	S	1.4	0.1	6:21.01	/usr/bin/pul
27637	root	20	0	390M	35268	25288	S	0.9	0.4	0:07.67	/usr/bin/X -
28319	mark	20	0	808M	123M	49520	S	0.9	1.6	0:03.60	/opt/google/
29094	mark	20	0	30384	4012	3000	R	0.9	0.0	0:00.07	htop
28670	mark	20	0	1659M	240M	99132	S	0.9	3.1	0:02.04	/opt/google/
28376	mark	20	0	808M	123M	49520	S	0.9	1.6	0:02.08	/opt/google/
28571	mark	20	0	953M	287M	55460	S	0.9	3.7	0:03.35	/opt/google/
28294	mark	20	0	649M	194M	135M	S	0.5	2.5	0:02.98	/opt/google/
28576	mark	20	0	953M	287M	55460	S	0.5	3.7	0:03.00	/opt/google/
28438	mark	20	0	1135M	118M	46684	S	0.5	1.5	0:00.21	/opt/google/
28300	mark	20	0	1135M	118M	46684	S	0.5	1.5	0:02.66	/opt/google/
28671	mark	20	0	808M	123M	49520	S	0.5	1.6	0:00.84	/opt/google/
29054	mark	20	0	923M	44668	34992	S	0.0	0.6	0:00.41	nautilus
29066	mark	20	0	556M	30864	24640	S	0.0	0.4	0:00.11	gnome-termin
28059	mark	20	0	345M	8688	5420	S	0.0	0.1	0:00.71	/usr/bin/ibu
28049	mark	20	0	345M	8688	5420	S	0.0	0.1	0:01.21	/usr/bin/ibu
28073	mark	20	0	346M	12544	11320	S	0.0	0.2	0:00.38	/usr/lib/ibu
28127	mark	20	0	191M	5932	5404	S	0.0	0.1	0:00.16	/usr/lib/ibu
28583	mark	20	0	728M	64104	44960	S	0.0	0.8	0:00.89	/opt/google/
1	root	20	0	29668	4284	2476	S	0.0	0.1	0:01.60	/sbin/init
324	root	20	0	23704	2632	2332	S	0.0	0.0	0:00.05	/sbin/cgmana
368	root	20	0	24476	2420	1748	S	0.0	0.0	0:00.36	upstart-udev

F1 Help F2 Setup F3 Search F4 Filter F5 Tree F6 SortBy F7 Nice - F8 Nice + F9 Kill F10

HDD: 141,3 GiB | SSD: 92,2 GiB | wlan: 192.168.0.22 (rUsTy4) | BAT: 100,00% ( ) | 02/12/15 06:55 PM

File Edit View Search Terminal Help

Home

Places

- Recent
- Home
- Desktop
- Documents

mark Properties

Basic Permissions Local Network Share

Name: mark  
 Type: Folder (inode/directory)  
 Contents: 15 items, totalling 3.3 GB  
 Location: /home  
 Free space: 93.0 GB

Help Close

```

public class LFSR {
    public static void main(String[] args) {
        int R = 1;
        do {
            System.out.printf("%04x%n", R);
            // Updates the register (R) to the next state based on the polynomial
            // x16 + x5 + x3 + x2 + 1
            R = (((R<<1) ^ (R<<2) ^ (R<<4) ^ (R<<15)) & 0x8000) | (R >>> 1);
        } while (R != 1);
    }
}

```

-- INSERT -- 5,1 All

File Edit View Search Terminal Help

```

1  [||||] 6.6% 5 [||] 2.9%
2  [|||] 4.2% 6 [||] 2.8%
3  [||||] 5.6% 7 [||||] 8.1%
4  [||] 3.3% 8 [|||] 1.9%
Mem[|||||||||||||||||||||1665/7853MB] Tasks: 109, 242 thr; 1 running
Swp[|||||0/3904MB] Load average: 1.48 1.54 1.85
Uptime: 06:03:56

```

PID	USER	PRI	NI	VRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
28316	mark	20	0	823M	153M	49520	S	10.0	1.9	0:39.11	/opt/google/chrome/chro
28566	mark	20	0	953M	288M	55768	S	9.5	3.7	0:49.57	/opt/google/chrome/chro
28244	mark	20	0	1659M	239M	99856	S	8.6	3.0	1:02.80	/opt/google/chrome/chro
28283	mark	20	0	649M	212M	136M	S	4.8	2.7	0:24.00	/opt/google/chrome/chro
28575	mark	20	0	953M	288M	55768	S	3.3	3.7	0:10.98	/opt/google/chrome/chro
28279	mark	20	0	1659M	239M	99856	S	2.9	3.0	0:21.39	/opt/google/chrome/chro
27637	root	20	0	396M	39848	29864	S	2.4	0.5	0:10.97	/usr/bin/X -core :0 -se
2872	mark	9	-11	428M	11388	8520	R	2.4	0.1	10:18.60	/usr/bin/pulseaudio --s
28571	mark	20	0	953M	288M	55768	S	1.4	3.7	0:04.96	/opt/google/chrome/chro

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice - F8Nice + F9Kill F10Quit

HDD: 141,3 GiB | SSD: 92,2 GiB | wlan: 192,168,0,22 (rUsTy4) | BAT: 100,00% ( ) | 02/12/15 06:57 PM

# Why should I care?

- Improve the speed of your workflow
- Good use of screen real estate
- Improve game performance
- Great multi monitor support

# Getting i3 Installed

Using whatever package manager your distro provides install the package 'i3' or 'i3wm'

```
sudo apt-get install i3
```

The above will work fine in Ubuntu/Debian

**But isn't Ubuntu just Unity?!**

Turns out, no.

# i3 - How do I do.... things?

That depends on your configuration file and what helper programs you decide to use!

Lets take a look at my personal setup!



# Helpful Resources

Subreddit: <http://www.reddit.com/r/i3wm>

Website: <https://i3wm.org/>

FAQS: <https://faq.i3wm.org/questions/>

Github: <https://github.com/i3/i3>