i3 Window Manager (i3wm)

Sumner Evans
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Mines Linux Users Group
Let’s Talk About Window Management
Why do we use windows?

- Windows separate information on a screen
- Windows allow you to easily switch between tasks

Most modern OSes have *workspaces* as well. Workspaces refer to the grouping of windows in some window managers. ¹

¹https://en.wikipedia.org/wiki/Workspace#Graphical_interfaces
What’s the normal motif for windows?

- **Opening a window:** go to some menu somewhere, navigate through a ton of menus, click a button
- **Closing a window:** click the X button (or Alt + F4)
- **Moving a window:** find the title bar, click-and-drag
- **Resizing a window:** find the little thingy in the corner, click-and-drag
- **Snapping a window to the side of the screen:** find the title bar, drag it to the window to the side, hope that your desktop environment supports window snapping
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Introducing i3wm
Behold: i3

```
# same bindings, but for the arrow keys
bindsym Left resize shrink width 10 px or 10 ppt
bindsym Down resize grow height 10 px or 10 ppt
bindsym Up resize shrink height 10 px or 10 ppt
bindsym Right resize grow width 10 px or 10 ppt

# back to normal: Enter or Escape
bindsym Return mode "default"
bindsym Escape mode "default"

bindsym $mod+r mode "resize"

# Start i3bar to display a workspace bar (plus the system information i3status)
# finds out, if available)
bar {
    status_command i3status
    tray_output primary
}

# Modificaciones personales
#
# Iniciador de feh para manejar el wallpaper
exec --no-startup-id feh --bg-fill ~/Pictures/archgris.jpg

# Shortcut para Ejecucion de programas
bindsym control+S exec --no-startup-id subl
bindsym control+G exec --no-startup-id gedit
bindsym control+Z exec --no-startup-id zim
bindsym control+B exec --no-startup-id chromium
bindsym control+T exec --no-startup-id terminator

# Cambio a teclado en español
exec --no-startup-id setxkbmap -layout latam

# Moverse por los workspaces con ctrl-alt-flechas
bindsym $mod+control+Right workspace next
bindsym $mod+control+Left workspace prev
```
Why i3?

i3 is awesome because:

- Vim bindings
- workspaces are first-class citizens
- opening terminal emulators is optimized
- highly customizable
Using i3

- Mod + Enter: Open a terminal
- Ctrl + D: Open dmenu, a program launcher
- Mod + #: move to workspace # (# ∈ 0, . . . , 9)
- Mod + Shift + #: move current window to workspace #
- Mod + H/J/K/L: make active window the one to the left/below/above/right, just like Vim. You can also use the arrow keys.
- Mod + Shift + H/J/K/L: move window left/below/above/right
- Mod + E: activate split mode (default)
- Mod + W: activate tabbed mode
- Mod + S: activate stacked mode
- Mod + Shift + Space: float the current window
Quick Live Demo
You can customize `i3` editing `.config/i3/config`.

- Desktop Background: `exec_always feh --bg-fill <file>`
- Fonts: `modify font pango:<font>`
- Mod Key: `set $mod Mod#` (be careful or you could set it to the wrong key)
- Workspace Icons: `set $workspace1 "1: "` results in a "1: "

You can customize the `i3status` bar by editing the `.config/i3status/config`. 
Installing i3

- Arch: pacman -S i3-wm i3status i3lock (i3lock is optional)
- Ubuntu: apt install i3
- Gentoo: good luck
- Windows or macOS/OS X: install Linux

Then add exec i3 to your ~/.xinitrc.
Further Reading

- My configurations: https://gitlab.com/sumner/dotfiles/blob/master/.config/i3/config
- The great i3 docs: https://i3wm.org/
- You can also check out i3-gaps
Questions?
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