

Introducing

YULUG

by **bandali**

Outline

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- Brief history of GNU/Linux

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- Why use GNU/Linux

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- Why use GNU/Linux
- Getting started with GNU/Linux

About me

About me

Work experiences

Summer 2013 - Fall 2014:

Software Developer @ Athlete Builder Inc.

Spring 2013:

Application Developer @ VONICAL Inc.

Winter 2013:

Mobile & Web Developer @ Hire Works Inc.

kellar.org/~bandali/resume.html

About me

Work experiences

- Tools: Emacs, i3, Git, Zsh, Vim
- Languages: Python, Haskell, Clojure, C, Java

Tools & languages

About you

Which OS do you use?

About you

Which OS do you use?

- Windows

About you

Which OS do you use?

- Windows
- OS X

About you

Which OS do you use?

- Windows
- OS X
- GNU/Linux

About you

Which OS do you use?

- Windows
- OS X
- GNU/Linux
- BSDs and other unices

Brief History of GNU/Linux

Unix

Unix

What

- "Unix is a family of multitasking, multiuser computer operating systems that derive from the original AT&T Unix, developed in the 1970s at the Bell Labs research center by Ken Thompson, Dennis Ritchie, and others." —Wikipedia (Unix)

Unix

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- The first portable OS (entirely written in C)

Unix

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- The first portable OS (entirely written in C)
- Key characteristic: Modular design

Unix

What

Philosophy

- "Write programs that do one thing and do it well."
- "Write programs to work together."
- "Write programs to handle text streams, because that is a universal interface."

—Douglas McIlroy (Inventor of the Unix pipeline)

Unix

What

- Some versions are proprietary

Philosophy

- Others are free/libre software

License

- Cost:

- A \$20,000 license from Bell Labs
- Educational license: \$150

GNU

In 1983, Richard Stallman announced the GNU project, an effort to create a "free" Unix-like OS.

GNU

Software freedoms

"A program is free software if the program's users have the four essential freedoms:

- The freedom to run the program as you wish, for any purpose (freedom 0).
- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help your neighbor (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this."

—What is free software? - GNU Project

GNU/Linux

- GNU missing a working kernel

GNU/Linux

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GNU/Linux

- GNU missing a working kernel
- In 1991 Linus Torvalds released his hobby, the kernel Linux, as a replacement for the Minix kernel.
- Licensed under GNU GPL (General Public License)

GNU + Linux = GNU/Linux

Why Use GNU/Linux

Freedom

Choices

Customizability



Desktop



Documents



Downloads



Dropbox



Music



Pictures



Public



Templates



Videos

+Ivan Petruk



Radioactive

onix & Lindsey

RADIO
PENTATONIX



```
Code Pro";
```

118,1 47%

```
erving ./ on: http://0.0.0.0:8080
er
GMT] "GET /" "Mozilla/5.0 (X11; Linux x86_64; rv:34.0) Gecko/2
GMT] "GET /css/style.css" "Mozilla/5.0 (X11; Linux x86_64; rv:
x/34.0"
GMT] "GET /js/scripts.js" "Mozilla/5.0 (X11; Linux x86_64; rv:
x/34.0"
GMT] "GET /favicon.png" "Mozilla/5.0 (X11; Linux x86_64; rv:34
34.0"
GMT] "GET /2015/01/05/testing-css.html" "Mozilla/5.0 (X11; Lin
0100101 Firefox/34.0"
GMT] "GET /img/emptybar.jpg" "Mozilla/5.0 (X11; Linux x86_64;
efox/34.0"
```

/u/juhohei

Facebook

testing css | juhohei

0.0.0.0:8080/2015/01/05/testing-css.html

TESTING CSS

A paragraph. This paragraph has a link, turquoise in color. If you hover it, it'll be Here's some more text just to make the paragraph at least three rows in length.

Second paragraph with `inline code`. It has turquoise color with gray background. Next block of code. It should have black background with white text.

```
function hello (name) {
  name = name || "world";
  return "Hello " + name + "!";
}
```

```
2 (:require [clojure.set :as set])
3
4 (def board identity)
5
6 (def all-values #{1 2 3 4 5 6 7 8 9})
7
8 (defn value-at [board coord]
9   (get-in board coord))
10
11 (defn has-value? [board coord]
12   (if (zero? (value-at board coord)) false true))
13
14 (defn row-values [board coord]
15   (let [[row _] coord]
16     (set (get board row))))
17
18 (defn col-values [board coord]
19   (let [[_ col] coord]
20     (set (for [n (range 0 9)]
21            (value-at board [n col])))))
22
23 (defn coord-pairs [coords]
24   (for [row coords
25        col coords]
26     [row col]))
27
28 (defn block-coords [board coord]
29   (let [[x _] coord
30         [_ y] coord]
31     xlst (cond
32            (<= 0 x 2) 0
33            (<= 3 x 5) 3
34            :else 6)
35     ylst (cond
36            (<= 0 y 2) 0
37            (<= 3 y 5) 3
38            :else 6)
39     xrest (range xlst (+ xlst 3))
40     yrest (range ylst (+ ylst 3))
41     (for [xlst xrest
42          ylst yrest]
43         [xlst ylst]))))
44
45 (defn block-values [board coord]
```

/u/juhohei

```
el sáb, 29 dic 2012
o Canadian for this shit. I'm not even Canadian.
problems with mpdscibble being a shit and not
```

```
restart x
```

```
recompilations it werked tho
.xinitrc runs
put mpdscibble in .xinitrc
```

```
er mpdscibble
```

```
bi
```

```
ido ahora como dum
his is taken
do ahora como tapi
it
```

```
ays
b: 0,529 | H: 6 12 | 8 5 12 | 4 4 | 7 4
```

```
##c
##programming
#archlinux
#vim
#/g/technology
#rice
```

```
onext<cr>-
```

```
t wrap!<cr>-
```

```
ent! set paste<CR>*p;set nopaste<CR>-
paste<cr>`z-
```

```
visual mode when I mean to "y". Use "gu" for those rare occasions.-
enrik/dotfiles/blob/master/vim/config/mappings.vim-
```

```
C -> CR -> <cr>-
```

```
:silent !mctags >/dev/null 2>&1 &<cr>:redraw!<cr>-
```

```
synIDattr(synID(line("."),col("."),1),"name") . ' ' trans<-
synIDattr(synID(line("."),col("."),0),"name") . " " lo<-
synIDattr(synIDtrans(synID(line("."),col("."),1)), "name") . ">"<CR>-
```

/u/hamsterslayer01

vim [unix] 29% 1287: 1

```
haliax@polaris:~ >> about -haliax
```

main	japan
blog	manga
lastfm	l-novel
git	releases
mail	eat

utils	forums
vidhost	4chan
books	archlinux
walls	reddit
imghost	jcafe24

beans	bits
unixporn	animebytes
dotshare	bitsnoop
/g/technology	rutracker
nixers	piratebay

```
haliax@polaris:~ >>
```

Getting Started with GNU/Linux

YULUG

[<https://yulug.org>]

YULUG

Scheduling Doodle

[<http://doodle.com/bqwbnqh8hamzibbp>]