

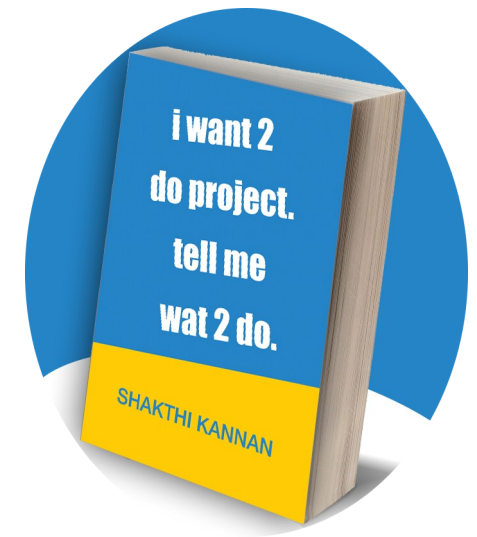
Building Careers with Free/Libre and Open Source Software

Version 1.0
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“mbuf” (IRC)

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Why me?

- **Free Software enthusiast**
- **Book: “i want 2 do project. tell me wat 2 do.”**
<http://shakthimaan.com/what-to-do.html>
- **Gallery** <https://gallery.shakthimaan.com>
 - Conferences, events, meet-ups, workshops, talks
- **Volunteer and Mentor**
 - [ILUG-C](#), [dgplug](#), Summer of Code programs
- **Writer**
 - OSFY, EFY
- **Blog:** <http://www.shakthimaan.com/news.xml>
- **Community:** linuxforums, Fedora project, GNU Emacs etc.
- **MS (IT), Rochester Institute of Technology**



Why?

- **Recognition**
- **Open communication**
- **Feedback**
- **Continuous learning**
- **Improve skills**
- **Career growth**
- **Diversity**
- **Network**
- **Perks: Fame, money, travel etc.**



Source: <http://planet.gnome.org/heads/>

Who?

- **Academia**

- Students

- School: <https://opensource.com/article/18/3/linux-forward-schools>

- College: GSoC, Mozilla, KDE etc.

- Faculty

- Management

- **Industry**

- **Government**

- **NGO**

- **Hobby**



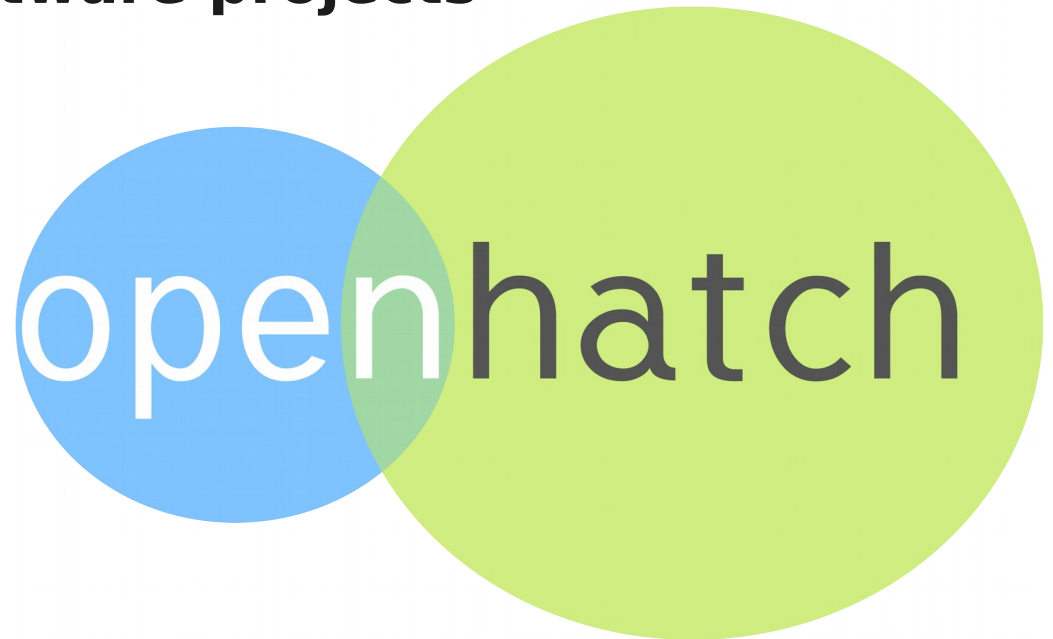
Source: [Science Hack Day, Belgaum 2017](#)

When?

Now!

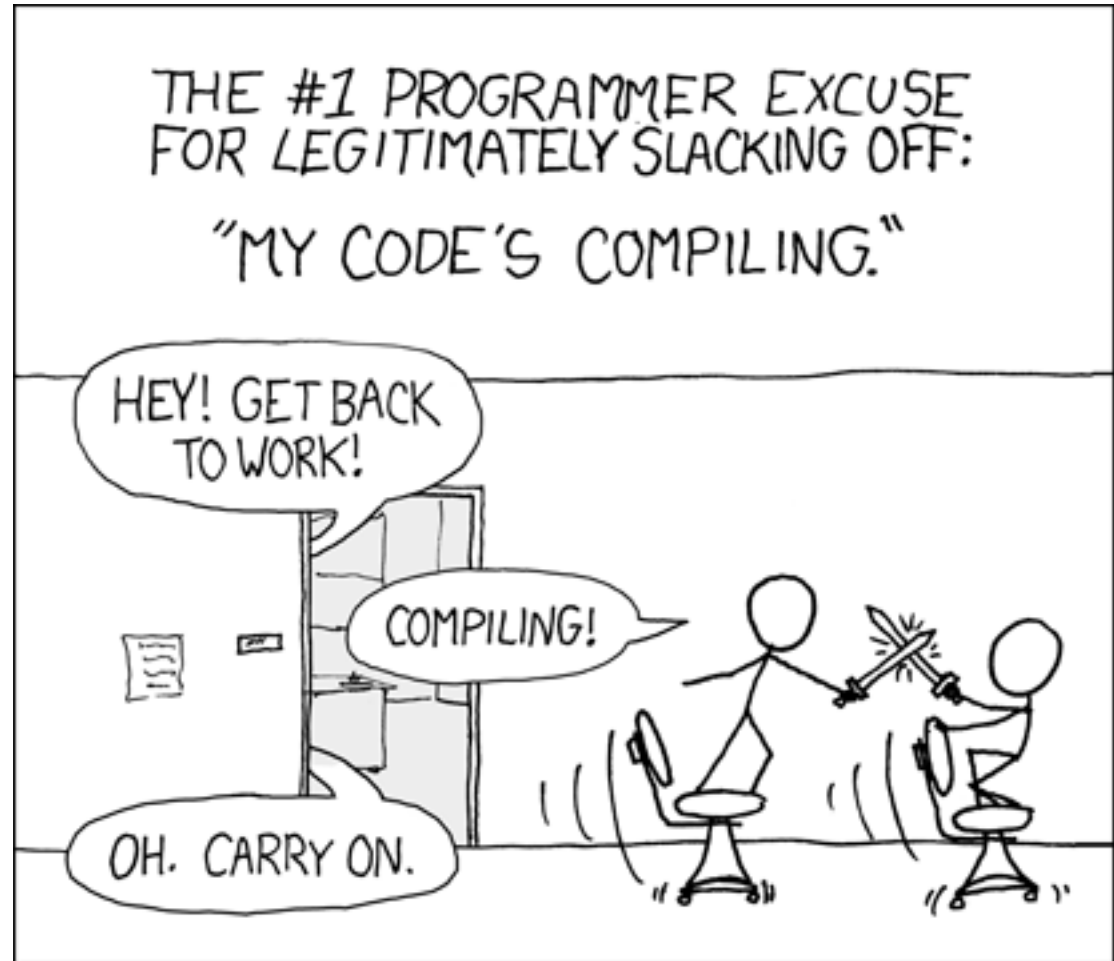
What?

- **Free/Libre Open Source Software projects**
- **Source Control Account**
 - [GitLab](#), [GitHub](#), [Bitbucket](#) etc.
- **Blog**
- **Social media**
- **Communication channels**
 - [Internet Relay Chat](#), [Gitter](#) etc.
- **Conferences**
 - [PyCon](#), [RubyConfIndia](#), [GopherCon](#), [FunctionalConf](#), [HasGeek](#)
- **Meet-ups**
- **User Group meetings**



Project Areas

- **Documentation**
- **Translation**
- **Marketing**
- **Artwork**
- **Infrastructure**
- **Websites**
- **Internationalization**
- **News**
- **Packaging**
- **Development**
- **Testing**



Source: <https://xkcd.com/371/>

Domain and Job Designation

DevSecOps

Gaming

Computer networks

Telecommunications

Research

Service industry

Embedded systems/VLSI

Teaching

Operating Systems

Systems development

Bioinformatics

...

DevOps engineer

Freelance writer

Embedded Systems engineer

Application developer

Database administrator

Professor/researcher

Web developer

Graphics designer

Consultant

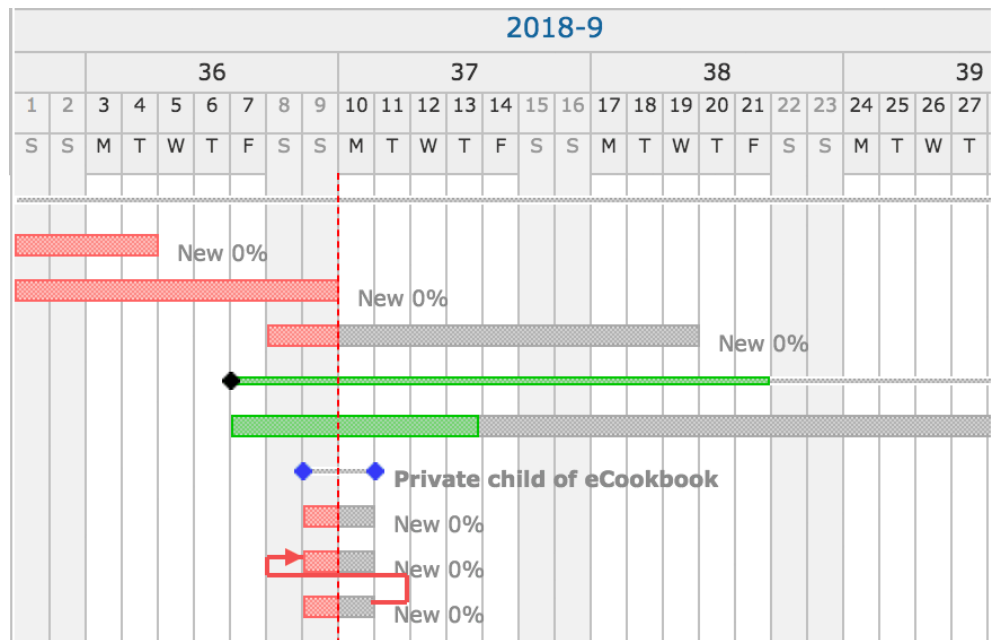
Data Scientist

UI/UX designer

...

Where?

- **Forums**
- **Mailing list**
- **Internet Relay Chat (IRC)**
 - `irc.freenode.net` (`##linux-india`, `#dgplug`, `#emacs` etc.)
- **Bugs tracker**
 - [Bugzilla](#), [MantisBT](#), [Trac](#), [Fossil](#) etc.
- **Project task management:**
 - [Redmine](#), [OpenProject](#), [TaskJuggler](#) etc.
- **Wiki**
 - [Mediawiki](#), [DokuWiki](#), [MoinMoin](#) etc.
- **Source control**
 - [Gitlab](#), [GitHub](#), [Bitbucket](#) etc.



Internet Relay Chat

The screenshot shows an X-Chat window titled "X-Chat [2.0.8]; mbuf @ niven.freenode.net / #gentoo (+tncPLf) #gentoo-overflow 20,7". The window has a menu bar with "X-Chat", "IRC", "Server", "Settings", "Window", and "Help". The main chat area shows a message from "s" about a bug in xorg 6.8. A conversation follows between "scrp" and "lscd" about resolv.conf and ext3. "likewhoa" asks about linux2.6header users, and "Athas" responds about Emacs resource usage. "phox" joins the channel, and "roger55" asks about instructions. A user list on the right shows 32 ops and 894 total users, including roger55, rphillips, SeJo, slarti, SpanKY, spyderous, swegener, tavisio, [pkh], [radon], [suller], [SV]Kal-Ei, [WAN]Glow, and \Locutus\.

```
X-Chat [2.0.8]; mbuf @ niven.freenode.net / #gentoo (+tncPLf) #gentoo-overflow 20,7
X-Chat IRC Server Settings Window Help
X s break xorg 6.8 || 2004.2 minimal cd won't boot? bug 58821 32 ops, 894 tota
- cos the resolv.conf is empty
scrp razerboy: yes, depends on if you have the
wong lived like i had the other day and
had to start from stagel to change the
architecture
lscd DJGummikuh: i suspect ext3 is the
slowest; i don't have hard benchmarks
[and a lot depends on your usages]
likewhoa anyone linux2.6header users?
Athas I don't get why people are so riled up
about Emacs' resource usage. I mean,
right now, Firefox and X combined,
consume about 250mb, while Emacs hovers
around 20.
--> phox (~phox@phox.dk) has joined #gentoo
roger55 Statix: want to bet you didn't follow the
instructions?
```

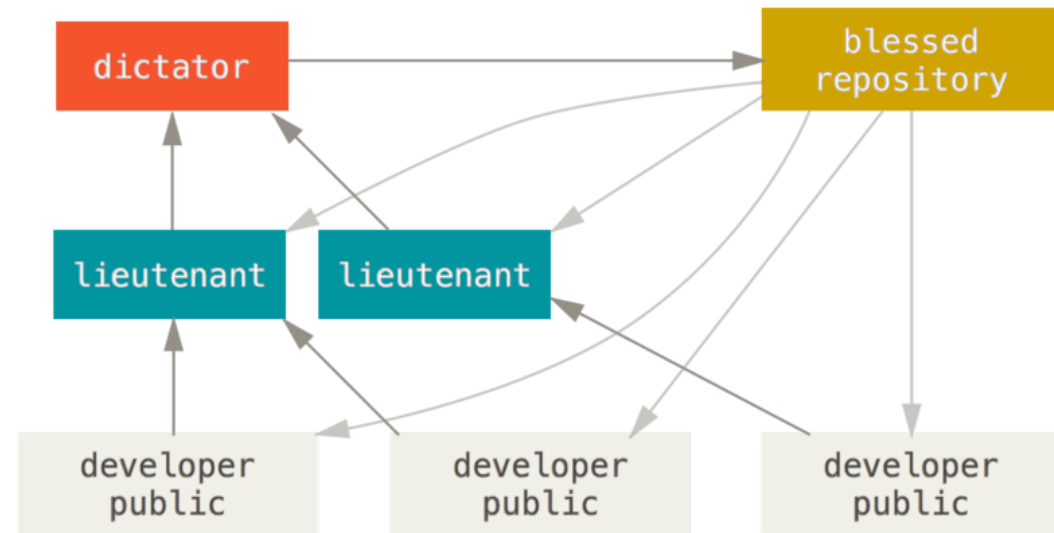
mbuf

FreeNode #gentoo #c #asm #kernel

roger55
rphillips
SeJo
slarti`
SpanKY
spyderous
swegener
tavisio
[pkh]
[radon]
[suller]
[SV]Kal-Ei
[WAN]Glow
\Locutus\

How?

- Use the software
- Understand project tools used
- Join communication channels
- Read project documentation
- Use and test the software
- Find a mentor
- Fix bugs, documentation
- Participate in team meetings
- Peer reviews



Source: [Git SCM book](#)

Example: Operation Blue Moon

<https://gitlab.com/shakthimaan/operation-blue-moon>

Bugzilla

KDE Bugtracking System – Bug List

Home | New | Browse | Search | Search [?] | Reports | Requests | Help | New Account | Log In
| Forgot Password

Thu Jan 3 2019 11:46:57 UTC



[Hide Search Description](#)

Changed: (is greater than or equal to) 24h **Creation date:** (changed after) 24h

34 bugs found.

ID	Product	Comp	Assignee ▲	Status	Resolution	Summary	Changed
402799	kdeconne	common	albertvaka	REPO	---	KDE connect Segmentation Fault.	20:26:49
402787	framewor	Baloo Fi	baloo-bugs-null	REPO	---	Baloo crashed	Wed 13:36
402800	digikam	Albums-M	digikam-bugs-null	REPO	---	Main album view does not update when moving images between albums	21:14:35
402807	digikam	Progress	digikam-bugs-null	REPO	---	Progress manager doesn't seem to be involved in the fingerprint scanning (v6.0 beta 3)	04:35:42
402809	digikam	Import-A	digikam-bugs-null	REPO	---	Clicking on "Import" toolbar button in import preview does nothing	08:56:59
402811	digikam	Geolocat	digikam-bugs-null	REPO	---	Drag-n-drop disabled in Geolocation editor	09:07:55

Change Request

✓  sprints/2018/dec-22-2018-jan-6-2019.org 



Edit

View file @ 8f8f9f14

```
... @@ -77,28 +77,39 @@
77 - [ ] [[https://www.b-list.org/weblog/2018/nov/26/case/][Truths programmers should know about case]] (40m)
78 ** bhavin192
79 *** Learning Golang
80 - **** Chapter 8. Goroutines and Channels [0/4]
80 + **** IN_PROGRESS Chapter 8. Goroutines and Channels [2/4]
81 :PROPERTIES:
82 :ESTIMATED: 1.75
83 - :ACTUAL:
83 + :ACTUAL: 0.70
84 :OWNER: bhavin192
85 :ID: READ.1545719105
86 :TASKID: READ.1545719105
87 :END:
88 - [ ] 8.7 Multiplexing with select (20m)
89 - [ ] 8.8 Example: Concurrent Directory Traversal (40m)
88 + :LOGBOOK:
89 + CLOCK: [2018-12-26 Wed 22:46]--[2018-12-26 Wed 23:06] => 0:20
90 + CLOCK: [2018-12-26 Wed 21:42]--[2018-12-26 Wed 21:50] => 0:08
91 + CLOCK: [2018-12-26 Wed 19:51]--[2018-12-26 Wed 20:05] => 0:14
92 + :END:
93 + - [X] 8.7 Multiplexing with select (20m)
94 + - [X] 8.8 Example: Concurrent Directory Traversal (40m)
90 - [ ] 8.9 Cancellation (25m)
91 - [ ] 8.10 Example: Chat Server (20m)
```

Assessment

“The only person you should try to be better than is the person you were yesterday.”

~ Matty Mullins

Further Reading

- **Free as in Freedom - Richard Stallman's Crusade for Free Software**
<https://www.oreilly.com/openbook/freedom/>
- **"The Cathedral and the Bazaar"**
<http://www.catb.org/esr/writings/cathedral-bazaar/>
- **Revolution OS** <http://revolution-os.com/>
- **Hackers & Painters: Big Ideas from the Computer Age.** Paul Graham.
- **How to Become a Hacker.** Eric Steven Raymond.
- **The Architecture of Open Source Applications**
- **Linux and the Unix Philosophy.** Mike Gancarz.
- **Presentations**
<http://www.shakthimaan.com/downloads.html>
- **Book: "i want 2 do project. tell me wat 2 do."**
<http://shakthimaan.com/what-to-do.html>
- **Careers with GNU/Linux**

Thank You

@shakthimaan