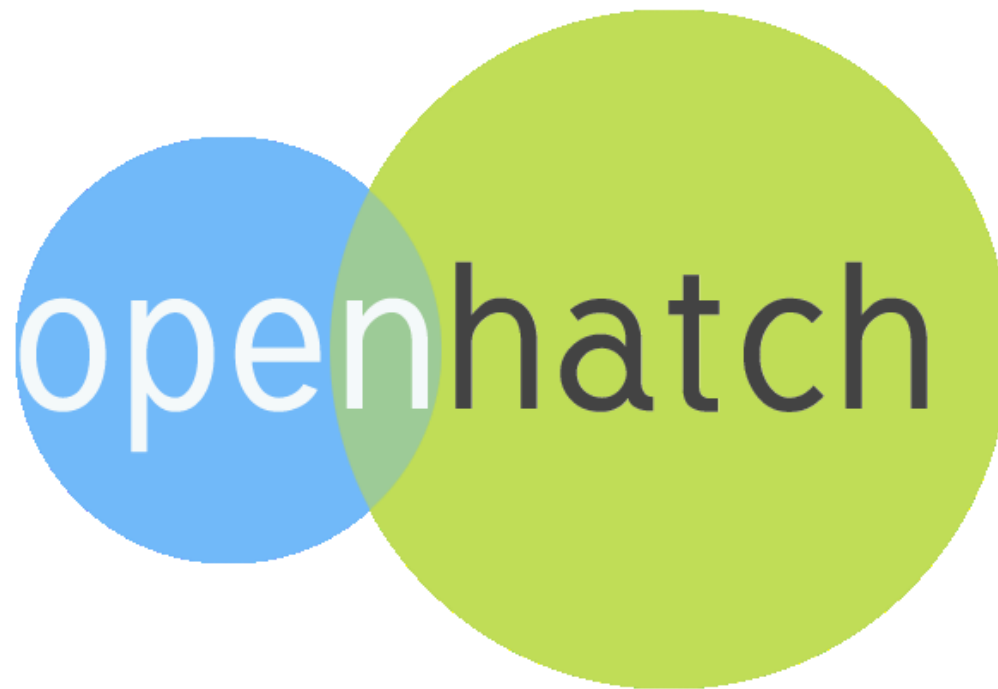
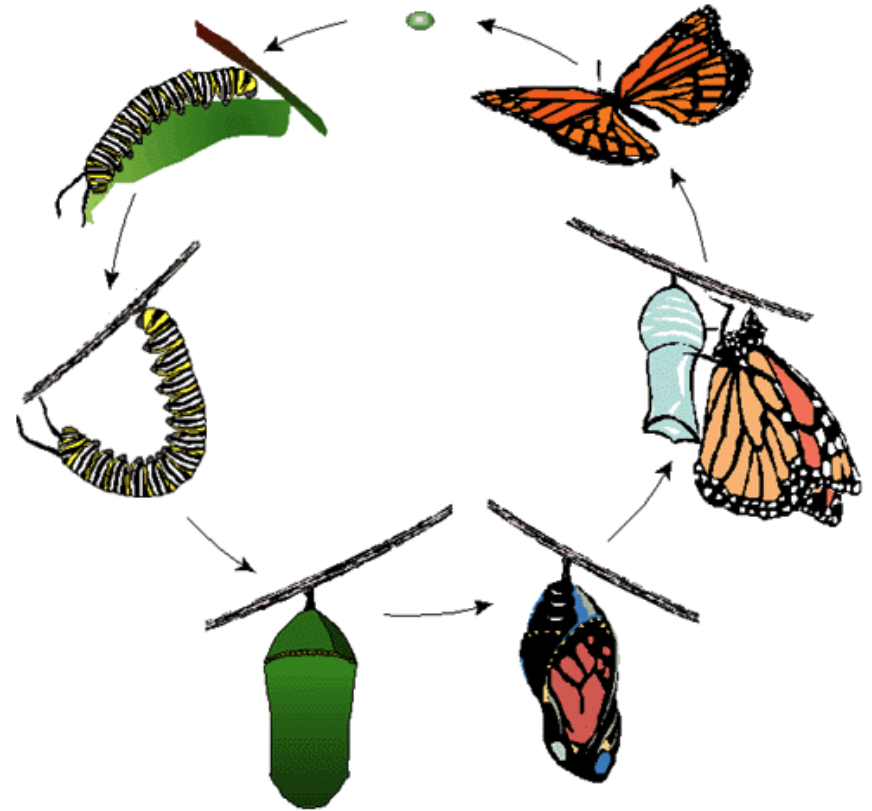


Contribute with me! Getting started with free software development



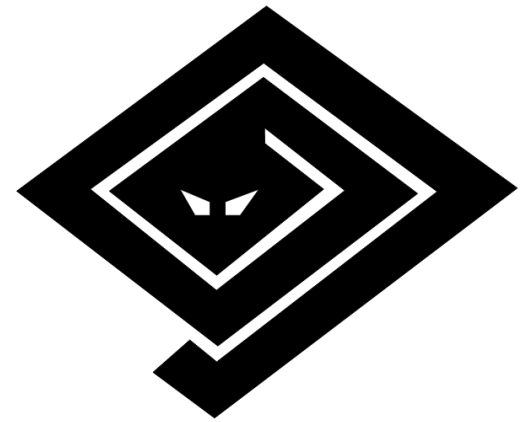
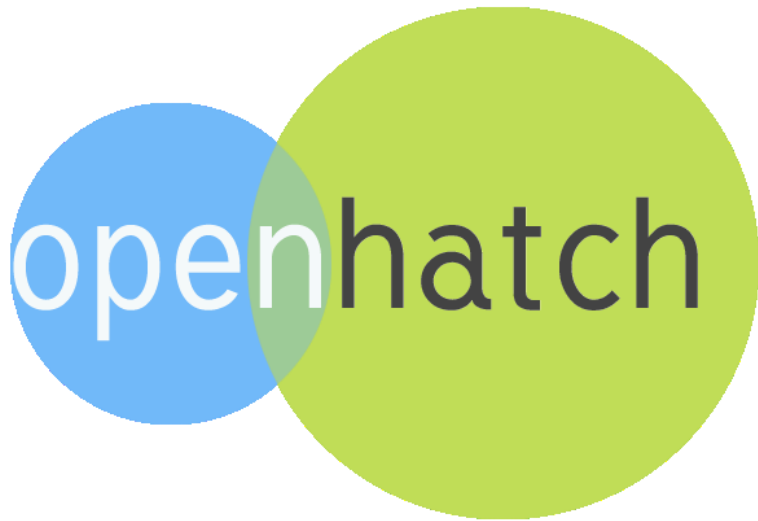
This talk

- Why?
- Ways to contribute
- Life cycle of a bug
- Development tools
- Communication
- Next steps



Demos!

Me, briefly



@jessicamckellar
<http://jesstess.com>

Why contribute to free software?

- Give back to the community
- People
- Education
- Work
- Fun



Project components



Gwibber



pythonTM

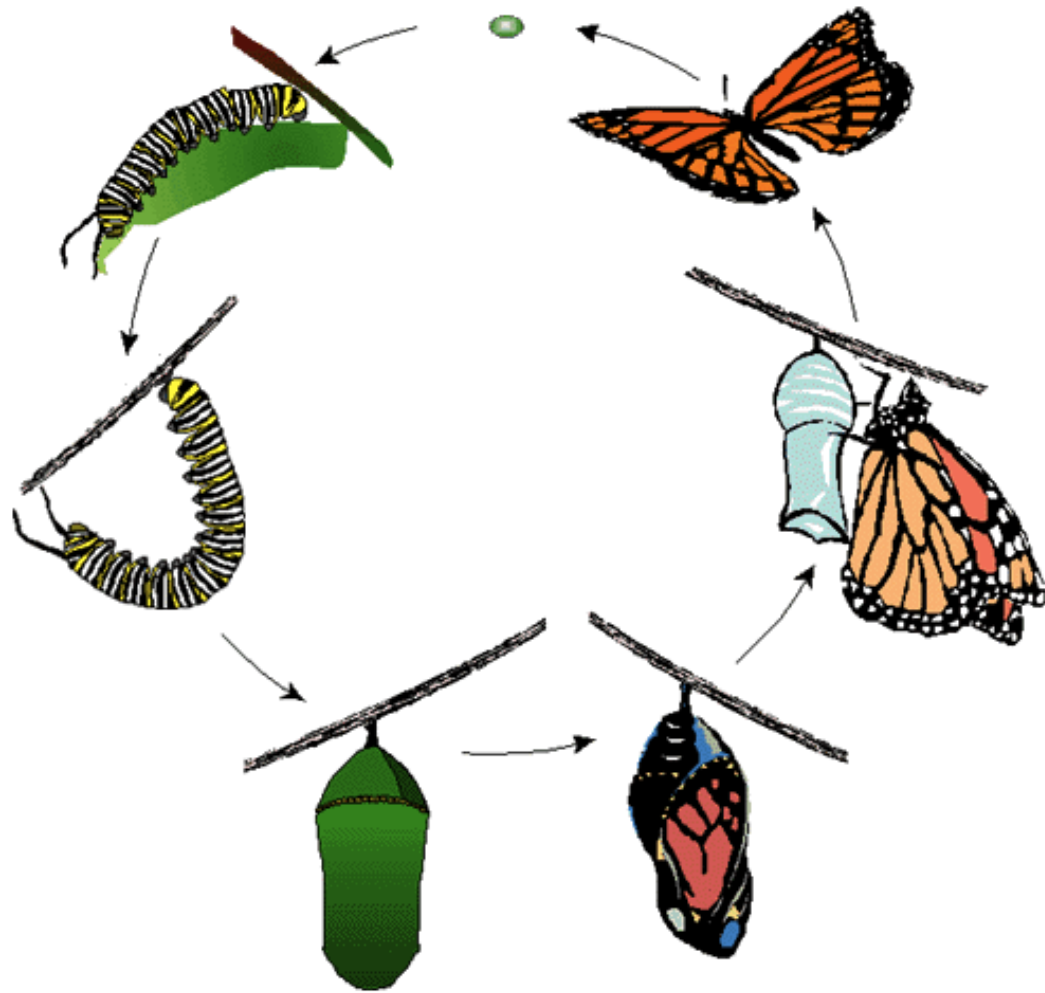


Tahoe-LAFS

And the many ways to contribute

Life cycle of a bug

- Report
- Triage
- Patch
- Testing
- Review
- Resolution



The tools of free software development



Issue trackers



python-twitter

A python wrapper around the Twitter API

[Project Home](#)

[Downloads](#)

[Wiki](#)

Issues

[Source](#)

[New issue](#)

Search

Open issues



for

[tips](#) [Subscriptions](#)

	ID ▼	Type ▼	Status ▼	Priority ▼	Milestone ▼	Owner ▼	Summary + Labels
☆	13	Defect	Accepted	Medium	---	---	Patch: twisted supp
☆	16	Defect	Accepted	Critical	---	bear42	OSError thrown from accessed from non
☆	27	Defect	Accepted	Medium	---	---	Support all availabl (with fix)
☆	28	Defect	Accepted	Medium	dev	---	Proxy support missi
☆	29	Defect	Accepted	Medium	dev	---	Proxy authentication
☆	33	Enhancement	Accepted	Medium	---	---	python-twitter shoul
☆	38	Enhancement	New	Medium	---	---	Extended version o
☆	43	Enhancement	Accepted	Medium	---	---	get rid of all those ja
☆	47	Defect	New	Medium	---	---	Get followers for an
☆	51	Defect	Accepted	Medium	---	---	Social Graph Metho

Demo!

Report

Triage

Patch

Testing

Review

Resolution

Sharing changes: diff and patch

```
from wall import Wall
-from effects import Effects
+import effects

@@ -20,7 +20,12 @@ if __name__ == "__main__":

    wall = Wall(opts.width, opts.height)

-    for effect in Effects:
+    if args:
+        effects_to_run = [getattr(effects, a)
+                           for a in args]
+    else:
+        effects_to_run = effects.Effects
+
+    for effect in effects_to_run:
        new_effect = effect(wall)
        print new_effect.__class__.__name__
        new_effect.run()
```

Report

Triage

Patch

Testing

Review

Resolution

Demo!

Revision control



Report

Triage

Patch

Testing

Review

Resolution

- Compare with Wikipedia
- Managing changes / history
- Collaborative progress

Demo!

Communication



Report

Triage

Patch

Testing

Review

Resolution

- Issue trackers
- Mailing lists
- IRC

- Where to find answers
- How to ask questions

04:49 < glyph> jonathanj: heh. That's syntactically valid but not correct :)

04:49 < glyph> jonathanj: You just say L{Deferred} firing L{Foo}

04:50 < jonathanj> how does one document AMP command arguments, responses and errors?

04:50 < glyph> jonathanj: read the source code for the Command class :-\

04:50 < glyph> jonathanj: talk to teratorn about possible future options though

04:52 < jonathanj> ugh

IRC

05:01 < kenaaan> **glyph** **r35696** **trunk/twisted** **A(5880.bugfix)** **M(process.py):**
Merge TIOCN0TTY-5880. ...

05:01 < kenaaan> glyph closed [#5880] - twisted.internet.process.PTYProcess
throws "OSError: [Errno 6] Device not configured" on
Mountain Lion

05:22 < glyph> therve: I am very excited to give this a passing review

05:23 < glyph> ↪ Sat Sep 15 02:21:53 PDT 2012 (★trial -j 10 twisted) (32
seconds elapsed)

05:23 < glyph> ↪ Sat Sep 15 02:23:09 PDT 2012 (★trial twisted) (66
seconds elapsed)

05:30 < glyph> therve: still ready for review?

05:38 < glyph> All right I guess I'll have a look in the morning.

06:09 < exarkun> it is the morning

06:32 < kenaaan> **exarkun** **r35697** **A(branches/xmpp_client.py-3270-3/):**
Branching to 'xmpp_client.py-3270-3' ...

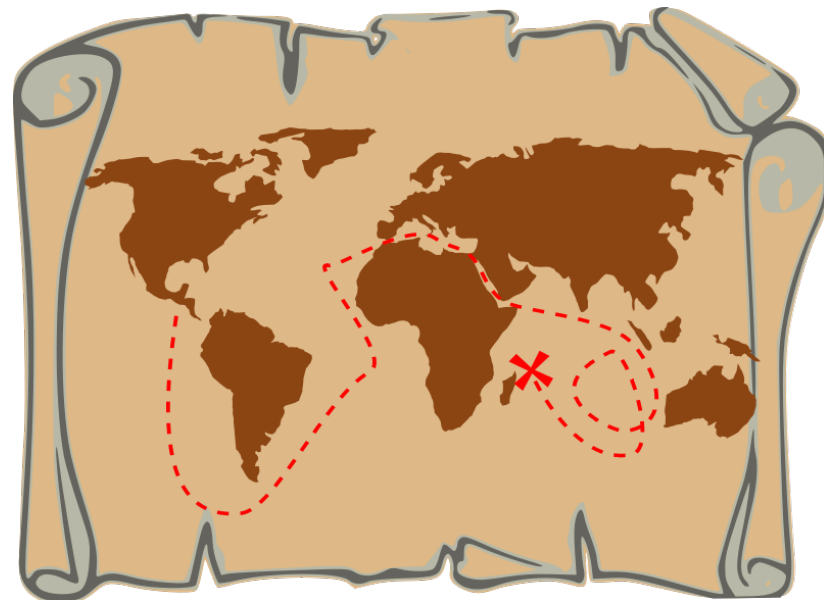
06:38 < therve> 'morning exarkun :)

We think we found a bug!



Places to look for answers

- Project documentation
 - Installation guides, tutorials, FAQ
- Googling for error messages
- StackOverflow, LinuxQuestions.org



Places to ask questions

- StackOverflow, LinuxQuestions.org
- Mailing lists
- IRC
 - Pastebin
- Issue tracker

- School computing club
- Local user groups

How to effectively ask for help

- A Short, Self Contained, Correct, Example
- Steps to reproduce
- Input
- Expected output
- Actual output
- Software and operating system versions



Mailing lists

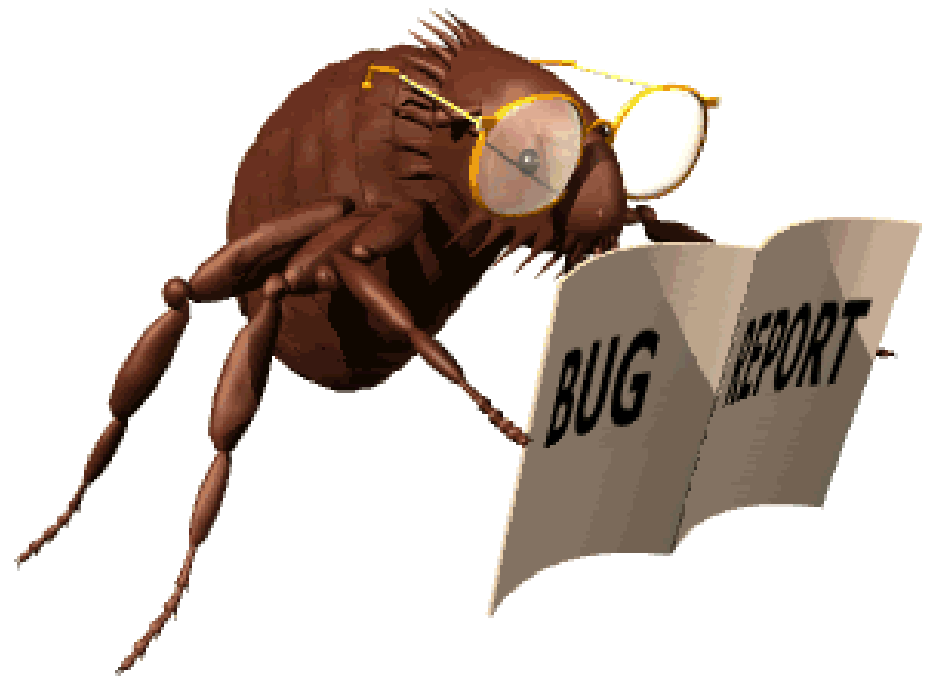
- Is this a question for -dev or -users?
- Be polite, write like this is for school/work
- Be specific
- Prepare a Short, Self Contained, Correct, Example

IRC

- Be polite, write like this is for school/work
- Be specific
- Prepare a Short, Self Contained, Correct, Example
- Be **patient**. What time is it in Australia right now?

Issue tracker

- Search for existing issues
- Read contributor documentation on categorizing and triaging tickets



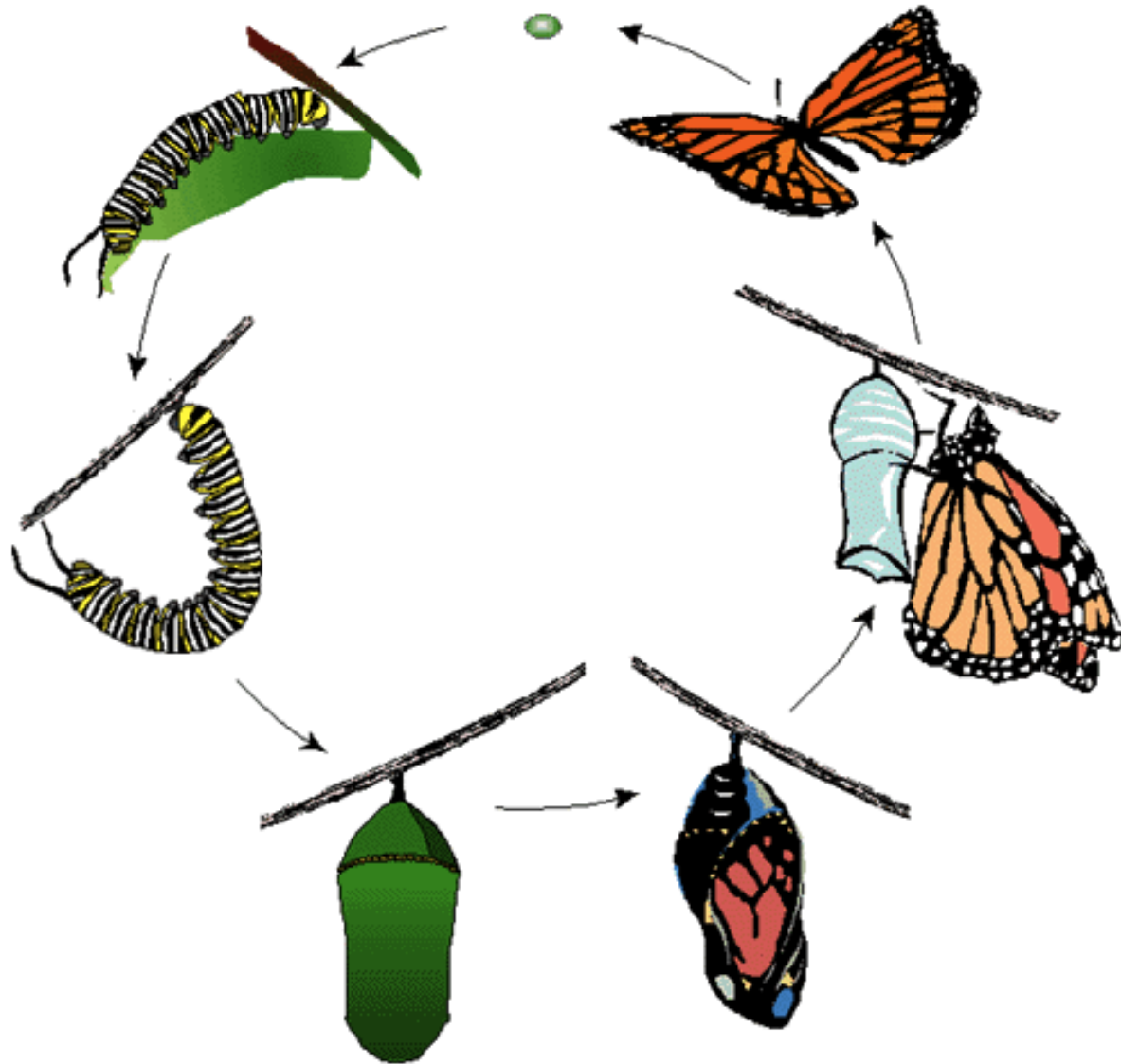
How to write a good bug report

- A Short, Self Contained, Correct, Example
- Steps to reproduce
- Input
- Expected output
- Actual output
- Software and operating system versions

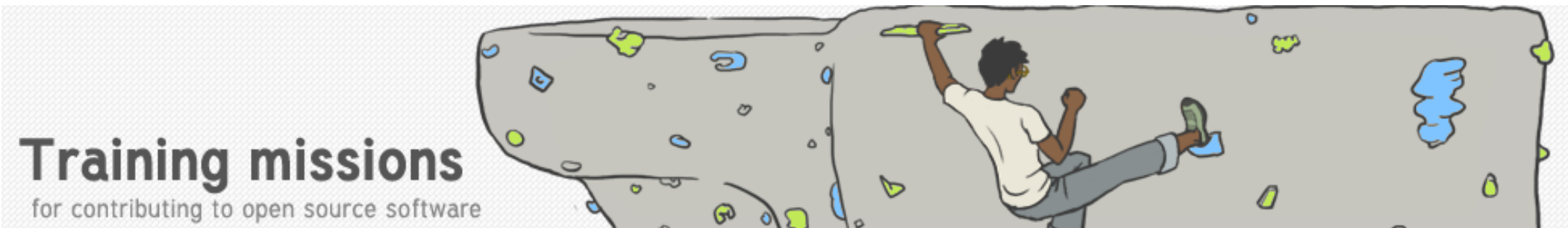


Life cycle of a bug

- Report
- Triage
- Patch
- Testing
- Review
- Resolution



OpenHatch training missions



Practice contributing to a project

These missions let you practice sharing a patch with a maintainer.

Using Subversion

Learn how to interact with projects that use the Subversion version control system.

Go »

Using git

Learn how to interact with projects that use the Git version control system.

Go »

Using diff and patch

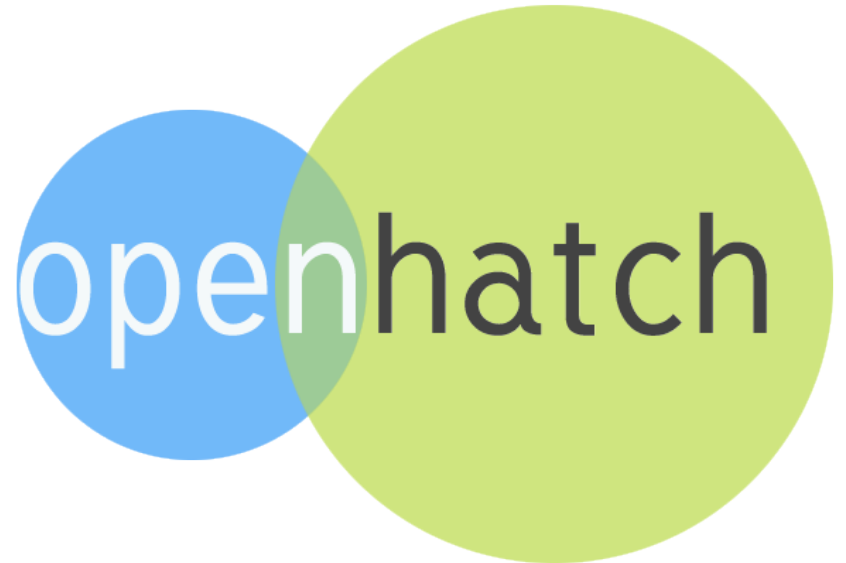
Learn how to use diff and patch to submit changes to a project or apply others' changes.

Go »

<http://openhatch.org/missions/>

What's next?

- Find a project!
- OpenHatch.org
- #openhatch on Freenode



- Boston Python

<http://meetup.bostonpython.com>

What's next?

- Python Core Mentors
<http://pythonmentors.com/>
- Debian Mentors
<http://lists.debian.org/debian-mentors/>
- Fedora Mentors
<http://fedoraproject.org/wiki/Mentors>
- Google Summer of Code

