

Get a Python job,
Work on OpenStack!



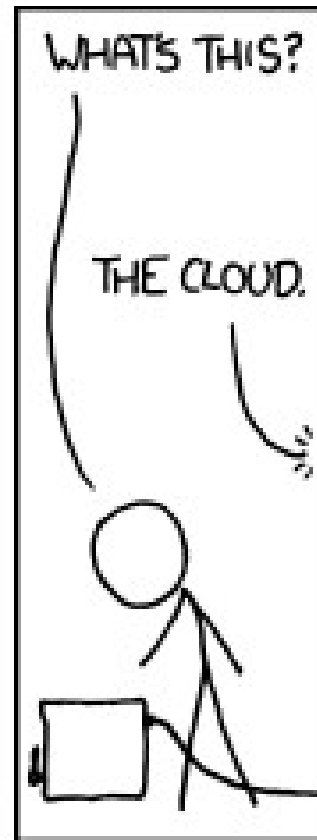
about:me

- Release Manager for OpenStack
- Chair of OpenStack Technical Committee
- Python Software Foundation member

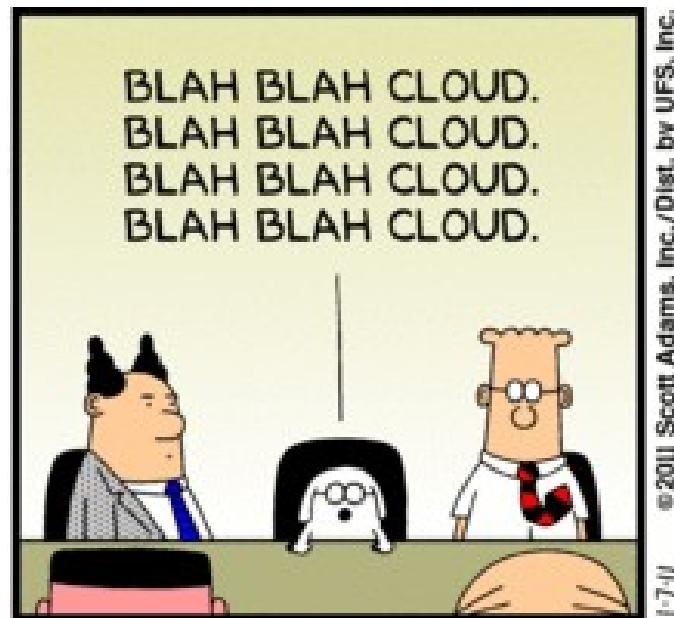
ttx @  freemote IRC

tcarrez @ 

Cloud ?



Buzzword



Infrastructure as a service

- Compute, storage, networking resources
- API-driven, on-demand
- Elastic, uses commodity hardware

Services



Open source Software



Other « cloud »

- ◆ Platform as a service

Services



Open source
Software



Other « cloud »

- Platform as a service
- User-oriented online storage

Services



Open source Software



Other « cloud »

- Platform as a service
- User-oriented online storage
- Software as a service

Services



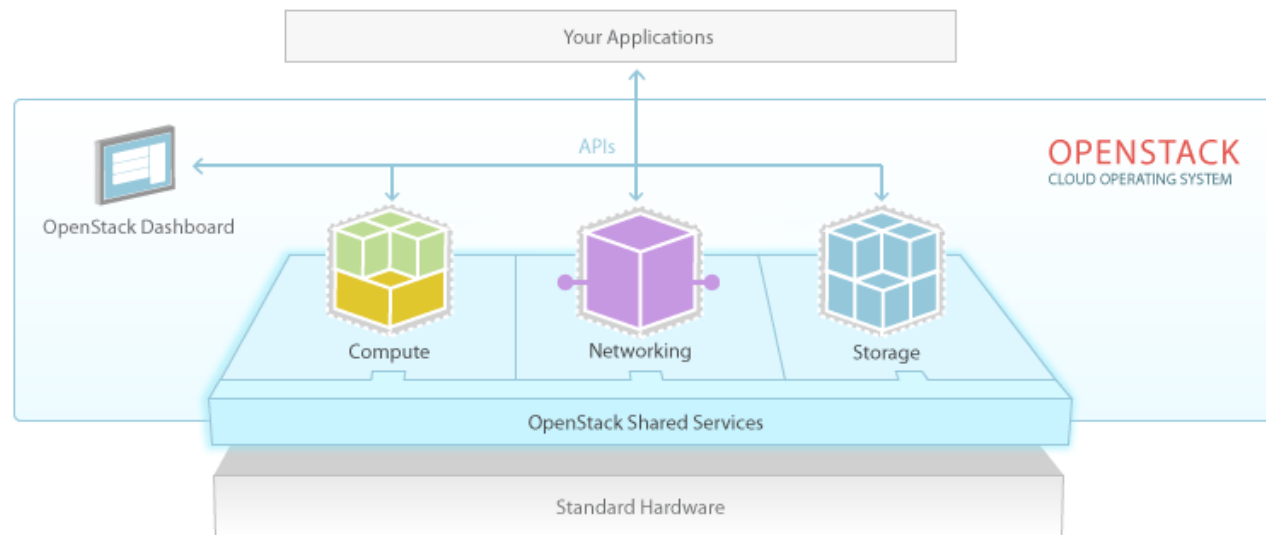
Open source Software



diaspora*

OpenStack

- Software designed for IaaS providers
- Full IaaS stack (compute, network, storage)
- Can also be used to power « private » clouds





- ♦ Just glue between API calls and real resources
- ♦ The trick is doing it at scale



A collection of projects

- Nova : Compute resources (VMs)
 - Cinder : Block storage
 - Swift : Object storage
 - Quantum : Network resources
-
- Keystone : Common authentication
 - Horizon : Web UI
 - Glance : Disk image service
 - Oslo : Common libraries





Why Python ?

- Easy to read
- Easy to learn
- Easy to patch
- Well-known in our target user population

Python libraries we use



django

SQLAlchemy

- ◆ Eventlet, greenlet
- ◆ Kombu, AMQPlib
- ◆ ...and dozens of others



Open innovation

- ◆ Open source
- ◆ Open development
- ◆ Open design
- ◆ Open community



Technical meritocracy

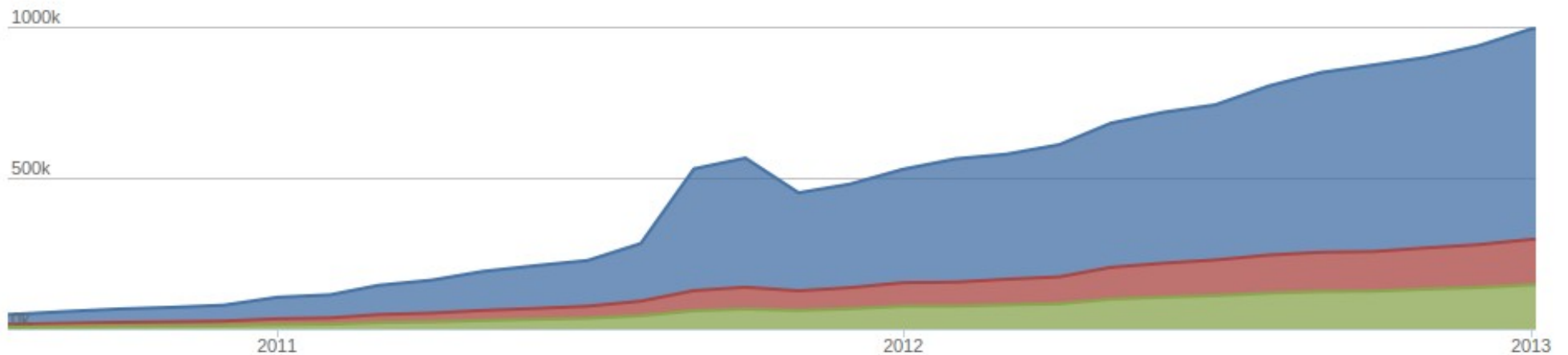
- ◆ Tech contributors make tech decisions
- ◆ Contributors elect their leaders
- ◆ Project Technical Leads
- ◆ OpenStack Technical Committee

Code size

Total Lines :	992,794	Code Lines :	696,553	Percent Code Lines :	70.2%
Number of Languages :	11	Total Comment Lines :	150,087	Percent Comment Lines :	15.1%
		Total Blank Lines :	146,154	Percent Blank Lines :	14.7%

Code, Comments and Blank Lines

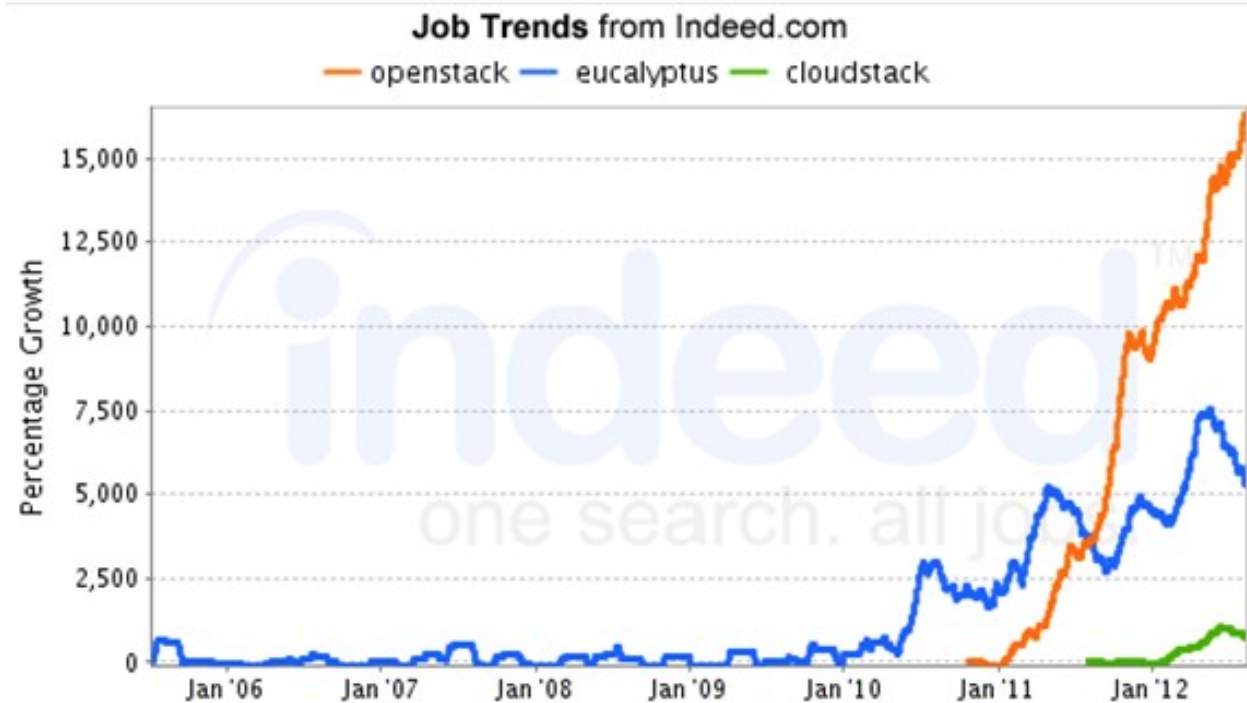
Zoom



Contributors per month



A hot job market



Indeed.com searches millions of jobs from thousands of job sites.
This job trends graph shows relative growth for jobs we find matching your search terms.



An awesome job market

- ♦ Open development
- ♦ Build Influence under your own name
- ♦ Start contributing today

OK, where's the code ?

for proj in openstack:

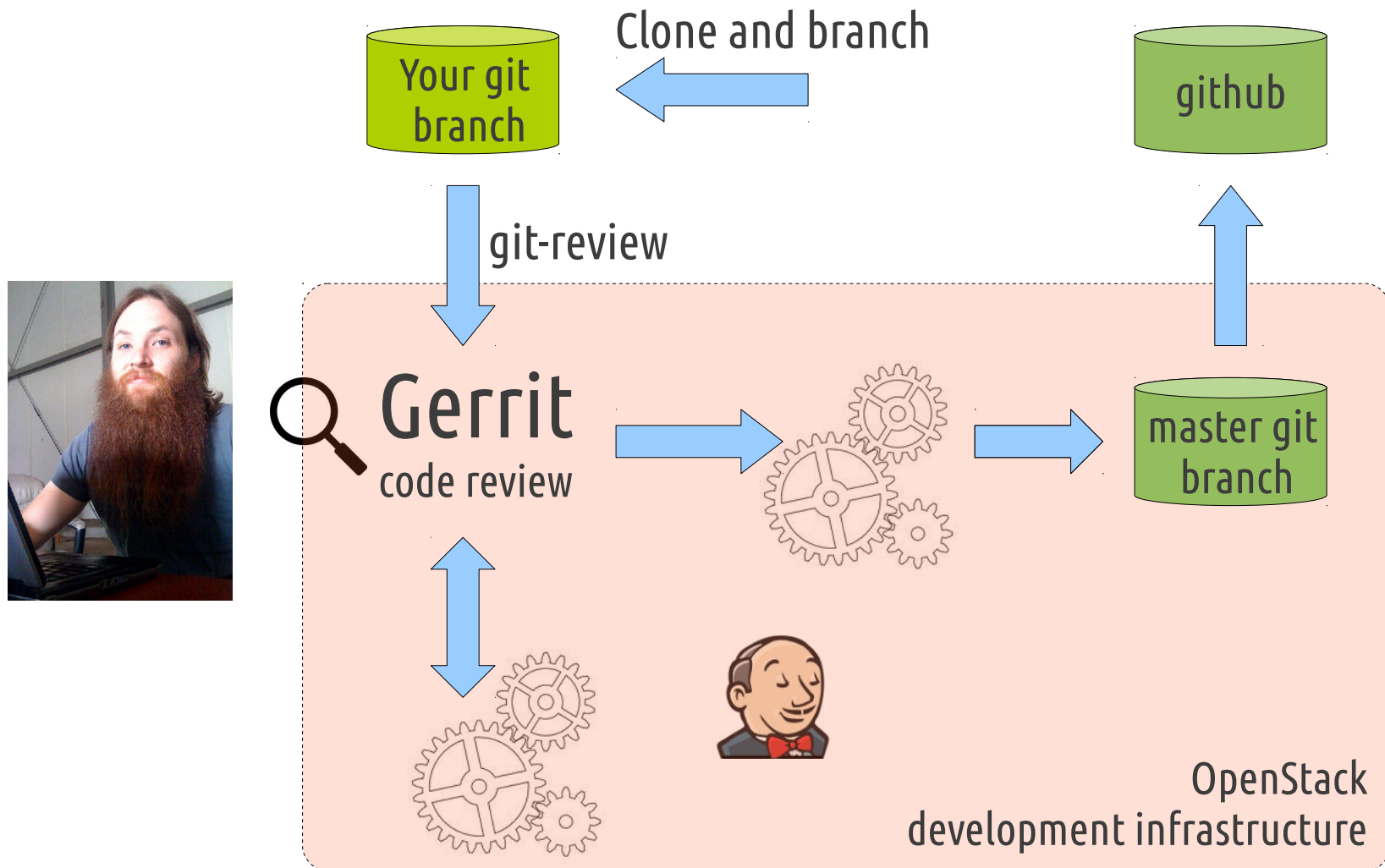
```
code[proj] = 'https://github.com/openstack/%s' % proj
```

```
bugs[proj] = 'https://bugs.launchpad.net/%s' % proj
```

```
plans[proj] = 'https://blueprints.launchpad.net/%s' % proj
```

```
code_reviews = 'https://review.openstack.org'
```

How code gets merged





Before you contribute

- Sign contributors license agreement
- Add yourself to Contributors wikipage
- Request membership in ~openstack-cla
- (Yes, we'll simplify this process soon)

<http://wiki.openstack.org/HowToContribute>



Where to contribute ?

- ◆ Core projects code
- ◆ Common libraries
- ◆ Integration tests
- ◆ Development infrastructure
- ◆ Documentation, translation



Strategic contributions

- ◆ Bug fixes
- ◆ Stable branch or Release management
- ◆ Security audits and bugfixes
- ◆ Create common code libraries
- ◆ Integration tests

Where ?

openstack.org/jobs

More information ?

#openstack-dev @freenode IRC


<http://wiki.openstack.org/MailingLists>





Thank you !

Questions ?

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<http://fnords.wordpress.com>
 @tcarrez

