Get a Python job, 
Work on OpenStack!
about:me

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

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Cloud?

What's this?

The cloud.
Buzzword
Infrastructure as a service

- Compute, storage, networking resources
- API-driven, on-demand
- Elastic, uses commodity hardware
Other « cloud »

- Platform as a service
Other « cloud »

- Platform as a service
- User-oriented online storage

Services
- Dropbox
- iCloud
- Amazon Cloud Drive
- Google Drive
- Ubuntu One

Open source Software
- ownCloud
Other « cloud »

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

- Eventlet, greenlet
- Kombu, AMQPPlib
- ...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**

<table>
<thead>
<tr>
<th>Total Lines</th>
<th>992,794</th>
</tr>
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<tbody>
<tr>
<td>Code Lines</td>
<td>696,553</td>
</tr>
<tr>
<td>Percent Code Lines</td>
<td>70.2%</td>
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<tr>
<td>Total Comment Lines</td>
<td>150,087</td>
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<td>15.1%</td>
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<td>14.7%</td>
</tr>
</tbody>
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**Code, Comments and Blank Lines**

Zoom: 1yr, All

[Graph showing code size growth over years]
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

Clone and branch

Your git branch

git-review

Gerrit
code review

master git branch

OpenStack development infrastructure
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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