OPENSTACK: CLOUD'S BIG TENT

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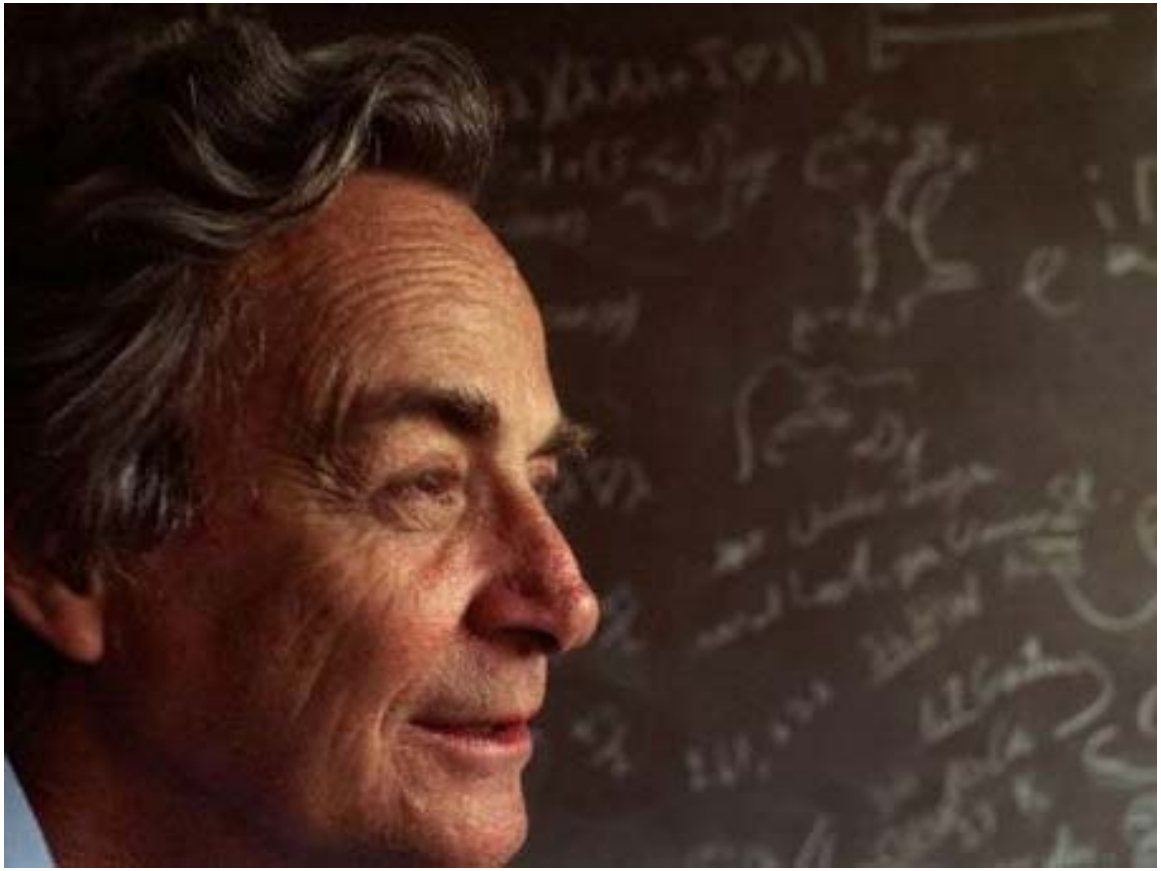
Former Chief Architect, NASA Nebula
Founding Member, OpenStack
OpenStack Project Policy Board

Blah Blah Cloud, Blah Blah Cloud.

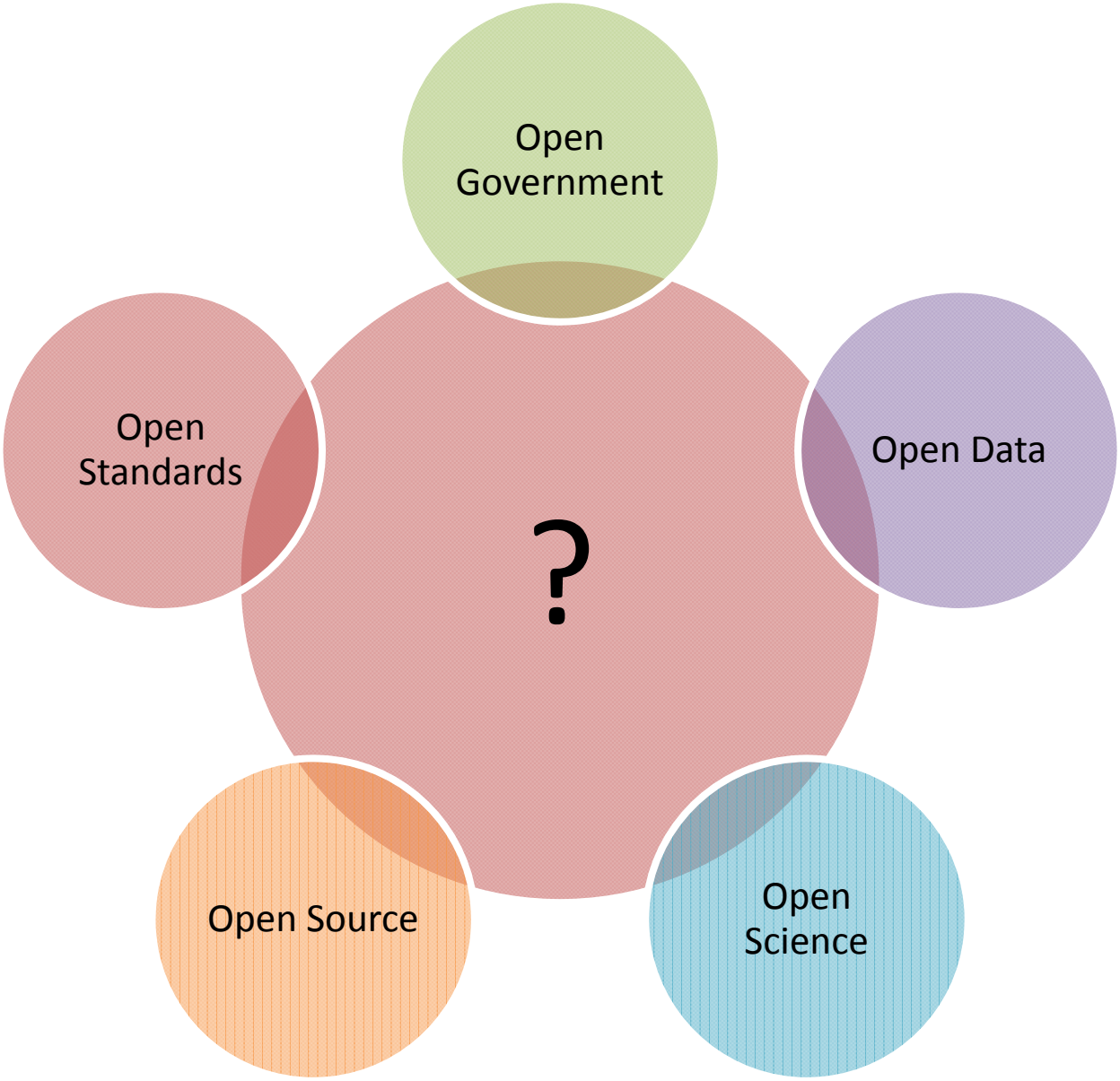
HISTORY



One of the Fathers of Cloud Computing

“In retrospect I realize that in almost everything that we worked on together, we were both amateurs... But the things that we studied were so new that no one else knew exactly what they were doing either. It was amateurs who made the progress.”

- W. Daniel Hillis, on Richard Feynman


Open Government
Open Standards
Open Data
?
Open Source
Open Science

NASA

> curl http://nebula.nasa.gov

We released it under an Apache2 open source license, in partnership with Rackspace. And we called it OpenStack.

And it was good.

```
> curl http://www.openstack.org
```

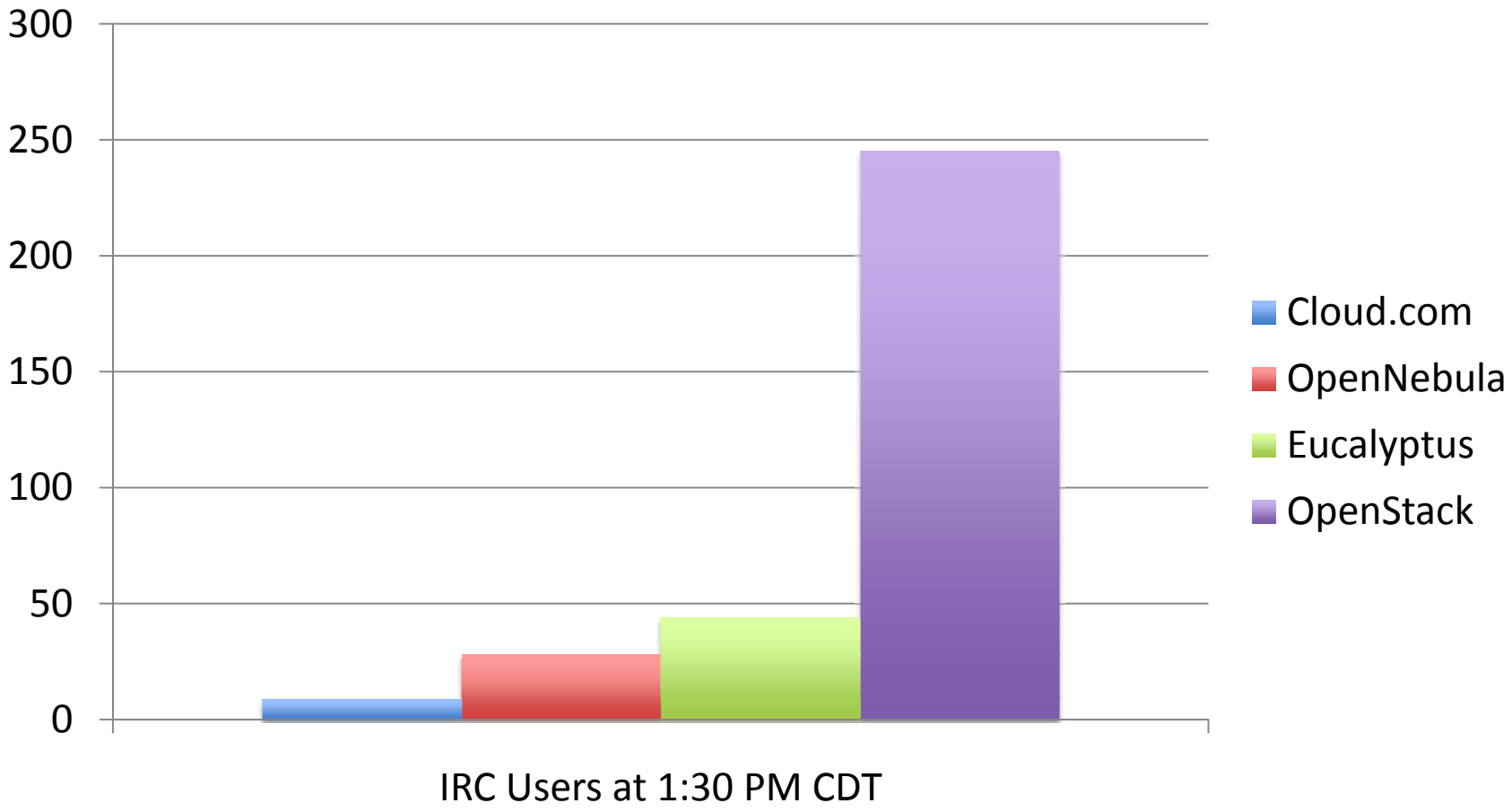
COMMUNITY

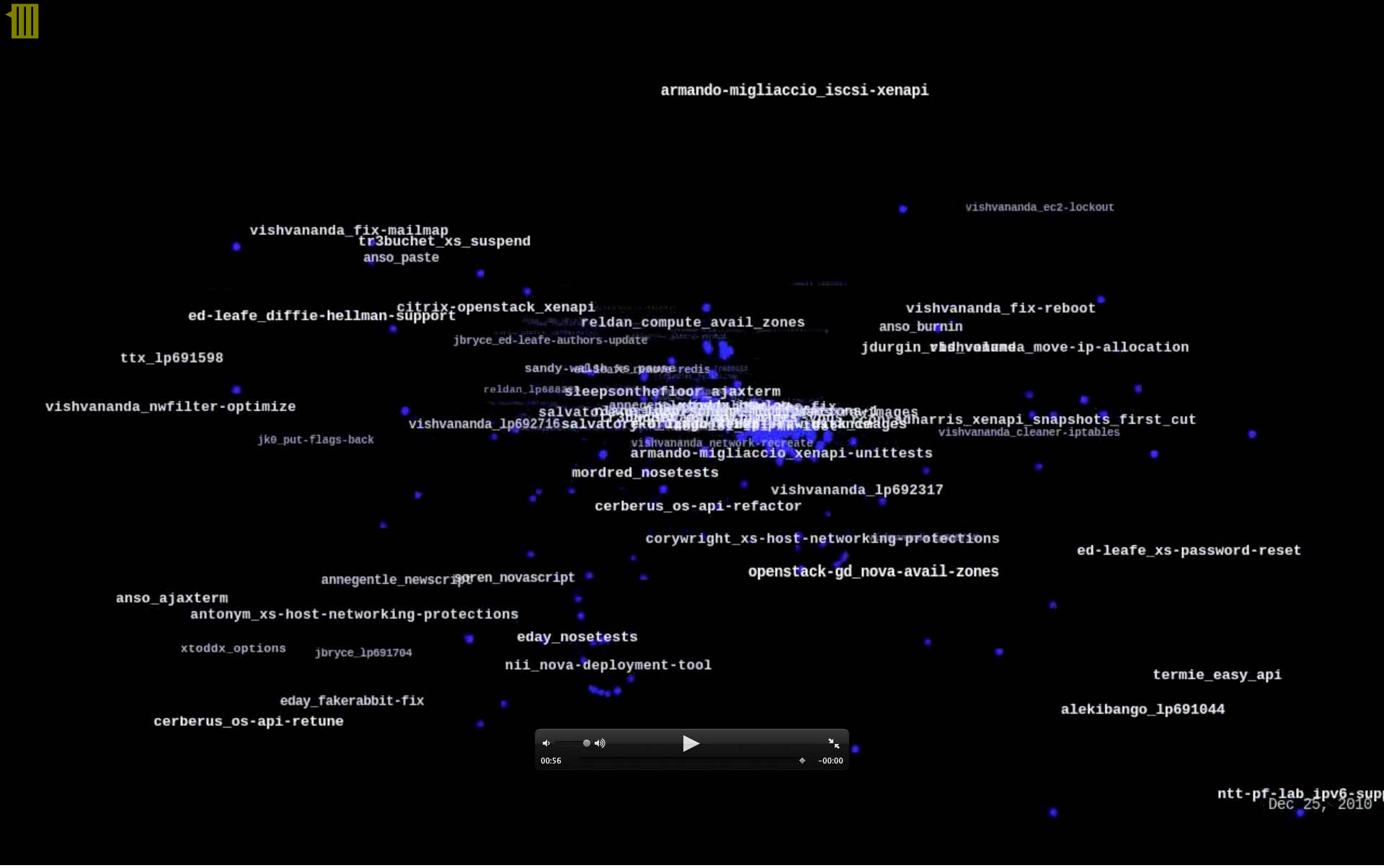
INTERNAP
peer1 hosting
nicira
puppet labs
DELL
cloud.com
MidoKura
NTT DATA
Zenoss
NASA
cloudkick
Cloud Management
RIGHTSCALE
Cloud Computing. Delivered.
enSTRATUS
SCALR
SOFTLAYER
cloudscaling
rackspace
HOSTING
CITRIX
FATHOMDB
CISCO
iomart
CLOUDSWITCH
MORPH
anso
LABS LLC
intel
Microsoft
AUTONOMIC
RESOURCES
zuora
VYATTA
INTALIO
sonian
Limelight
NETWORKS
Cirrascale
AMD
rPath

OpenStack: By the Numbers

- Listed (twice!) in Black Ducks' Open Source Rookies of 2010
- One of the largest open-source teams in the world (top 2% of Ohloh) – in 6 months
- Over 1,000 commits by > 150 people in December alone

Where are the developers?



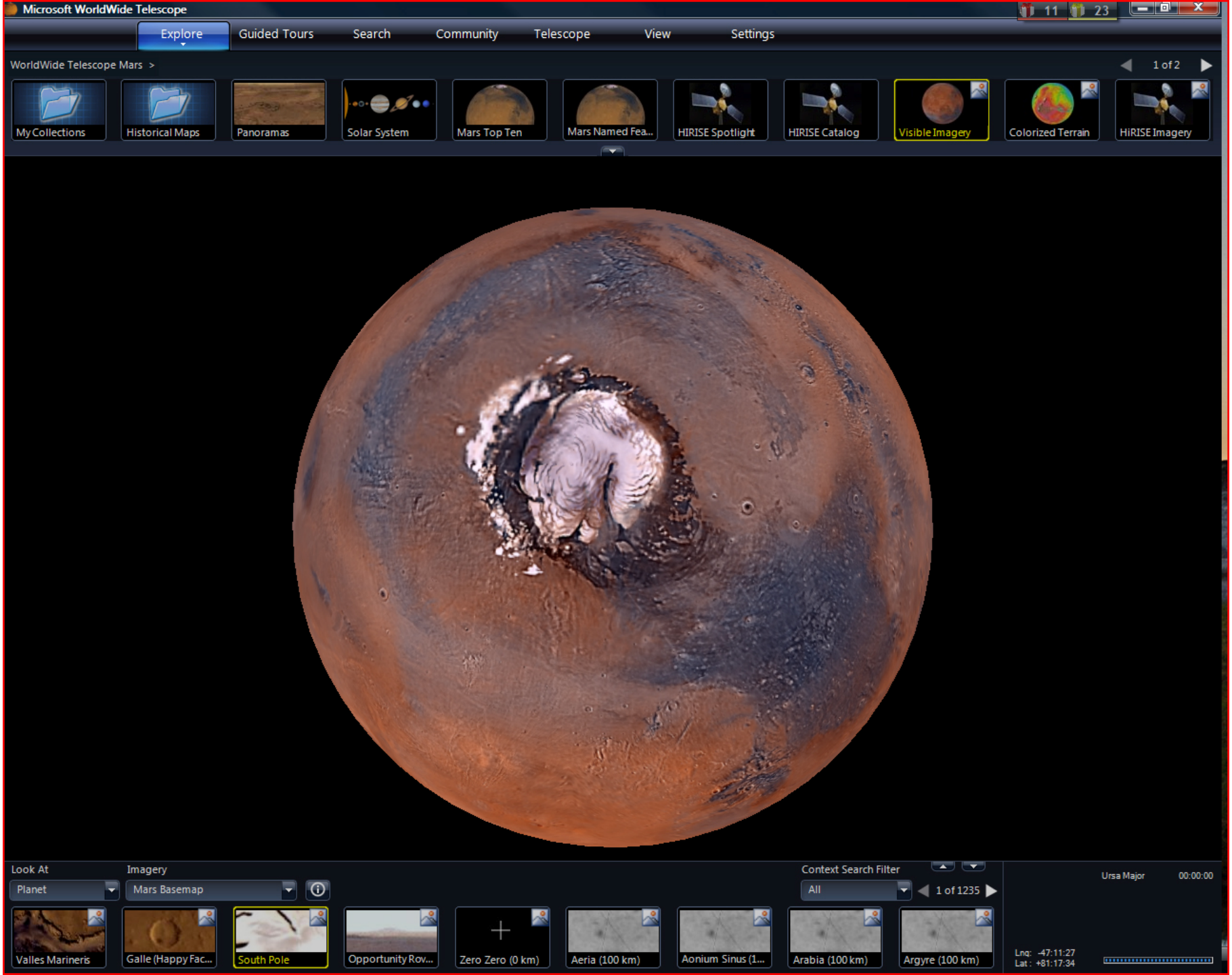


"The New Linux: OpenStack aims for the heavens"
- The Register, January 8th, 2011

OpenStack Summit: San Antonio, September ‘10

OpenStack User Group: Korea

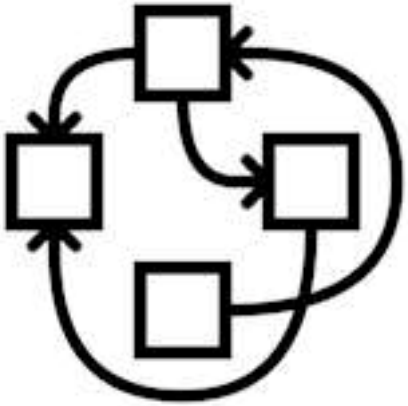
UTILITY


Microsoft WorldWide Telescope
11
23
Explore
Guided Tours
Search
Community
Telescope
View
Settings
WorldWide Telescope Mars >
1 of 2
My Collections
Historical Maps
Panoramas
Solar System
Mars Top Ten
Mars Named Fea...
HIRISE Spotlight
HIRISE Catalog
Visible Imagery
Colorized Terrain
HiRISE Imagery
Look At
Planet
Imagery
Mars Basemap
Context Search Filter
All
1 of 1235
Ursa Major
00:00:00
Valles Marineris
Galle (Happy Fac...
South Pole
Opportunity Rov...
Zero Zero (0 km)
Aeria (100 km)
Aonium Sinus (1...
Arabia (100 km)
Argyre (100 km)
Lng: -47:11:27
Lat : +81:17:34

OPPORTUNITY

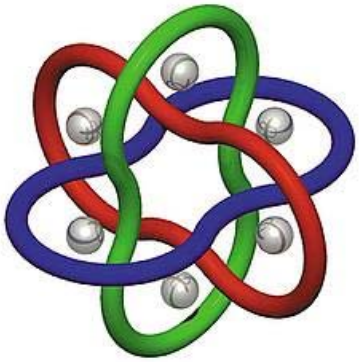
Science
Comm
Win

redhat



Arpanet

vs.



Java

IPv6

CLOUD FOUNDRY™

OPEN Compute Project

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"Wilber is probably taking this Cloud computering too seriously.