



Galaxy Project Update

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Galaxy Team
April 5, 2012
<http://galaxyproject.org>

Topics

Project Overview

Galaxy Whirlwind Tour

Project Activity

with an emphasis on past 12 months

Not Topics

Installing Galaxy

<http://getgalaxy.org/>

Running Galaxy on the Cloud

Last night's workshop

<http://usegalaxy.org/cloud>

Galaxy Project

Big Picture:

Galaxy is an **open**, web-based platform for **accessible**, **reproducible**, and **transparent** computational biomedical research.

GUI for genomics: analyze, visualize, share, publish.

<http://galaxyproject.org/>

Galaxy

Available in several different ways:

A free (for everyone) web site integrating a wealth of tools, compute resources, terabytes of reference data & persistent storage

<http://usegalaxy.org/>

Open source software that makes integrating your own tools and data and customizing for your own site simple

<http://getgalaxy.org/>

<http://galaxyproject.org/wiki/PublicGalaxyServers>

On the cloud: Deploy Galaxy on a scalable cloud infrastructure.

<http://usegalaxy.org/cloud>

Whirlind tour of the Galaxy

Galaxy features:

<http://usegalaxy.org/>

See also:

<http://usegalaxy.org/galaxy101>

<http://galaxyproject.org/wiki/Learn>

Some Recent & Pending Activity: Software

Regular **releases**: Aiming for monthly

Disk and concurrent job **quotas** now supported

Run compute cluster jobs **as real user**

Lots of **Trackster** work (visual analytics)

New **Object Store** data integration layer

ENA as a data source

Moving towards **MVC model** in interface

Sphinx code doc is coming

What's coming: Software

- Capturing and automatically deploying tool dependencies, automatic tool acquisition in Galaxy instances
- Better interfaces for highly parallel analysis (e.g. running the same workflow across 192 individuals)
- Various workflow engine improvements, partial data streaming, combined experimental/computational workflows



The Galaxy community's annual gathering

A new Training Day added July 25

- ✦ 7 topics, 3 parallel tracks, 12 sessions
- ✦ 1) Intro, 2) Installing, 3) CloudMan, 4) Integrating Tools & Sources, 5) API, 6) Tool Shed, 7) Ion Torrent SDK

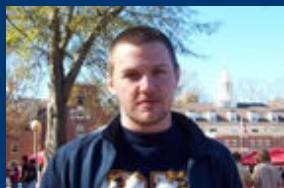


Key Dates

- ✦ **April 16: Abstracts due**
- ✦ **June 11: Early registration ends (early reg is cheap)**

Try it now:
<http://usegalaxy.org>

Develop and deploy:
<http://getgalaxy.org>



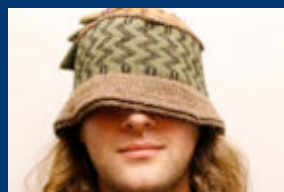
Dannon Baker



Jeremy Goecks



Ross Lazarus
(Baker IDI, Harvard)



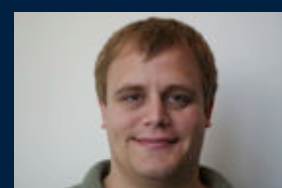
James Taylor



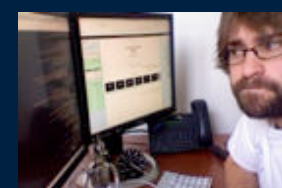
Enis Afgan
(IRB)



Jennifer Jackson



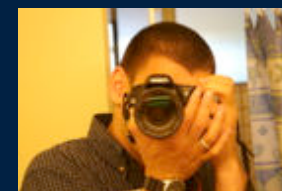
Dan Blankenberg



Nate Coraor



Greg von Kuster



Anton Nekrutenko

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Thanks

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