Accessible and Reproducible Data Analysis for Bench Scientists
Meetups
Galaxy is an open-source, web-based, x. Galaxy enables bench scientists to create, share, and publish sophisticated, reproducible bioinformatic analyses without requiring researchers to learn command line interfaces, or Unix system management skills. Galaxy can be accessed through the project's public server, or on one of the over 60 publicly accessible Galaxy servers. Galaxy can also be installed locally, and on cloud infrastructures.

This talk will introduce the Galaxy platform and discuss the project's recent work and plans going forward. Time allowing, there will also be a brief demonstration.
Galaxy is a web-based, data integration and analysis platform for life science research scientists to create, share, and publish sophisticated, reproducible bioinformatic analyses without requiring researchers to learn command line interfaces, or Unix system management skills. Galaxy can be accessed through the project's public server, or on one of the over 60 publicly accessible Galaxy servers. Galaxy can also be installed locally, and on cloud infrastructures.

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Basic Analysis

Which exons have most overlapping repeats in 3 spine stickelback, chromosome XXI?

(~ http://usegalaxy.org/galaxy101 )
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Dynamics of mitochondrial heteroplasmy in three families investigated via a repeatable re-sequencing study, Goto et al. Genome Biology 2011, 12:R59
http://genomebiology.com/2011/12/6/R59
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usegalaxy.org
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getgalaxy.org
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bit.ly/gxyyServers
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wiki.galaxyproject.org/Cloud
Scalability ...

Data generation is cheap and will stay cheap. Larger / more complex analysis are being done. More and more people are running bioinformatics analysis of all complexities. Scalability haunts us. Data generation never sleeps.
Scalability

Data generation is cheap and will stay cheap. Scale & complexity of analysis will continue to grow. More researchers are running bioinformatics analyses of all scales and complexities.

Galaxy needs to scale to the next few orders of magnitude.
Registered Users versus Jobs Submitted on Galaxy Main

Unmet User Compute Need

Leveraging the national cyberinfrastructure for biomedical research
Galaxy Cluster
- 256 cores
- 2 TB memory

Rodeo
- 128 cores
- 1 TB memory

Corral/Stockyard
- 20 PB disk

Trestles
- 10,368 cores
- 20.7 TB memory

Blacklight
- 4,096 cores
- 32 TB memory

Stampede
- 462,462 cores
- 205 TB memory

SDSC, San Diego

PSC, Pittsburgh

ICS, Penn State

TACC, Austin
Scaling the Project: Community Gatherings

GCC 2015
Galaxy Community Conference
6-8th July 2015
The Sainsbury Laboratory
Norwich, UK

galaxyproject.org