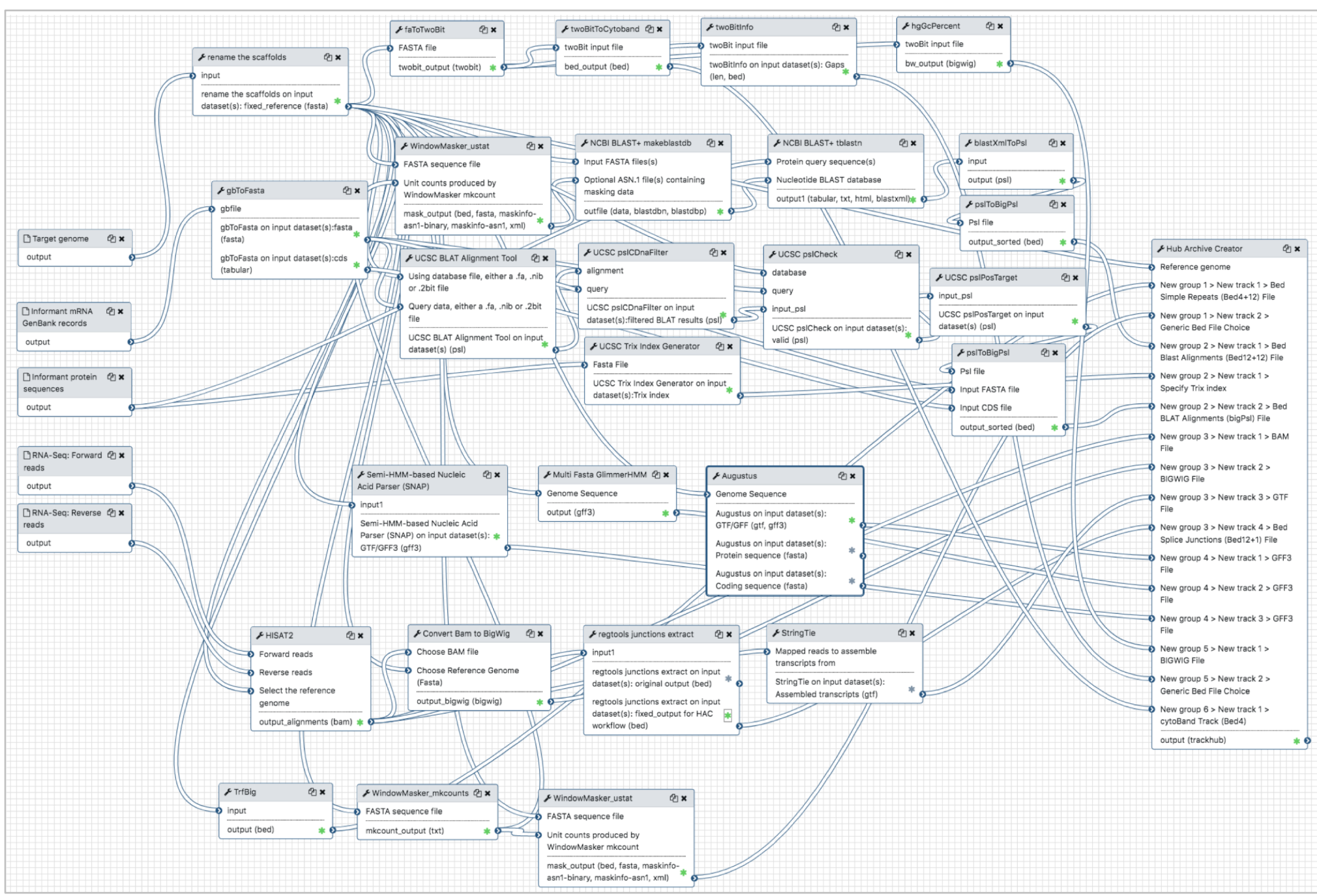# Galaxy: A Global Platform & Community for Life Science Data Integration & Analysis

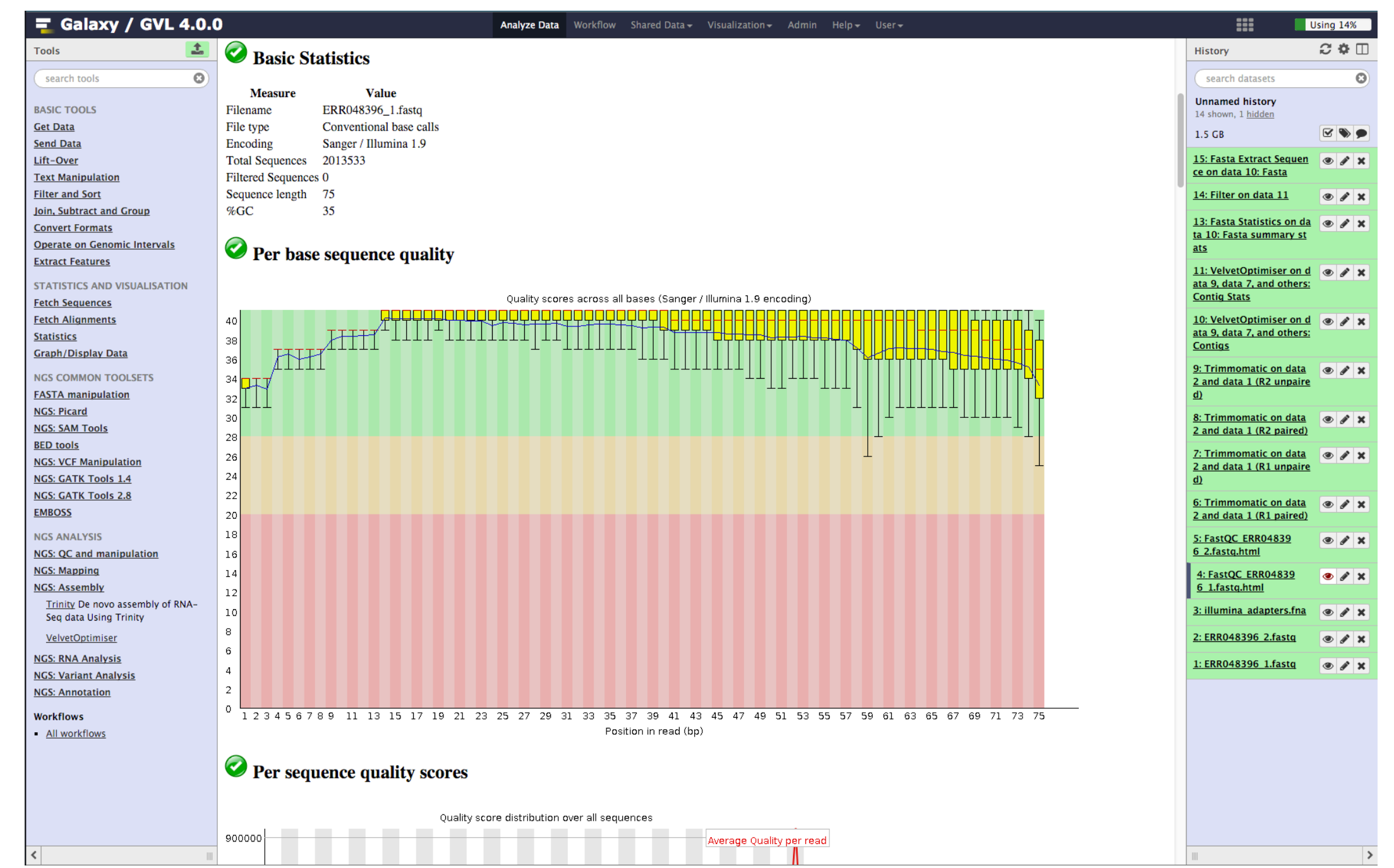Dave Clements[1] and the Galaxy community[2]   1. Galaxy Project, Johns Hopkins University; 2. galaxyproject.org

G-OnRamp, Wilson Leung

GCC2019, Bérénice Batut

Microbial de novo Assembly for Illumina Data, Melbourne Bioinformatics

Use: Researchers

On the web, **right now**

useGalaxy.*

.org | .eu | .org.au

120+ Public Servers

On cloud services

Jetstream   SNIC

MRC — Cloud Infrastructure for Microbial Bioinformatics   nectarcloud

metacentrum cesnet   GenAP

aws   Azure   Google Cloud

Docker & Virtual Machines

docker   VirtualBox

Over 35 Docker and VM images with fully functional pre-populated Galaxy instances on them, that you can setup and run on your laptop in minutes

Visualization, Epigenomics, metagenomics, RNA-Seq, BLAST+, ChIP-Seq, Exome-Seq, Image Analysis, Mass Spec ...
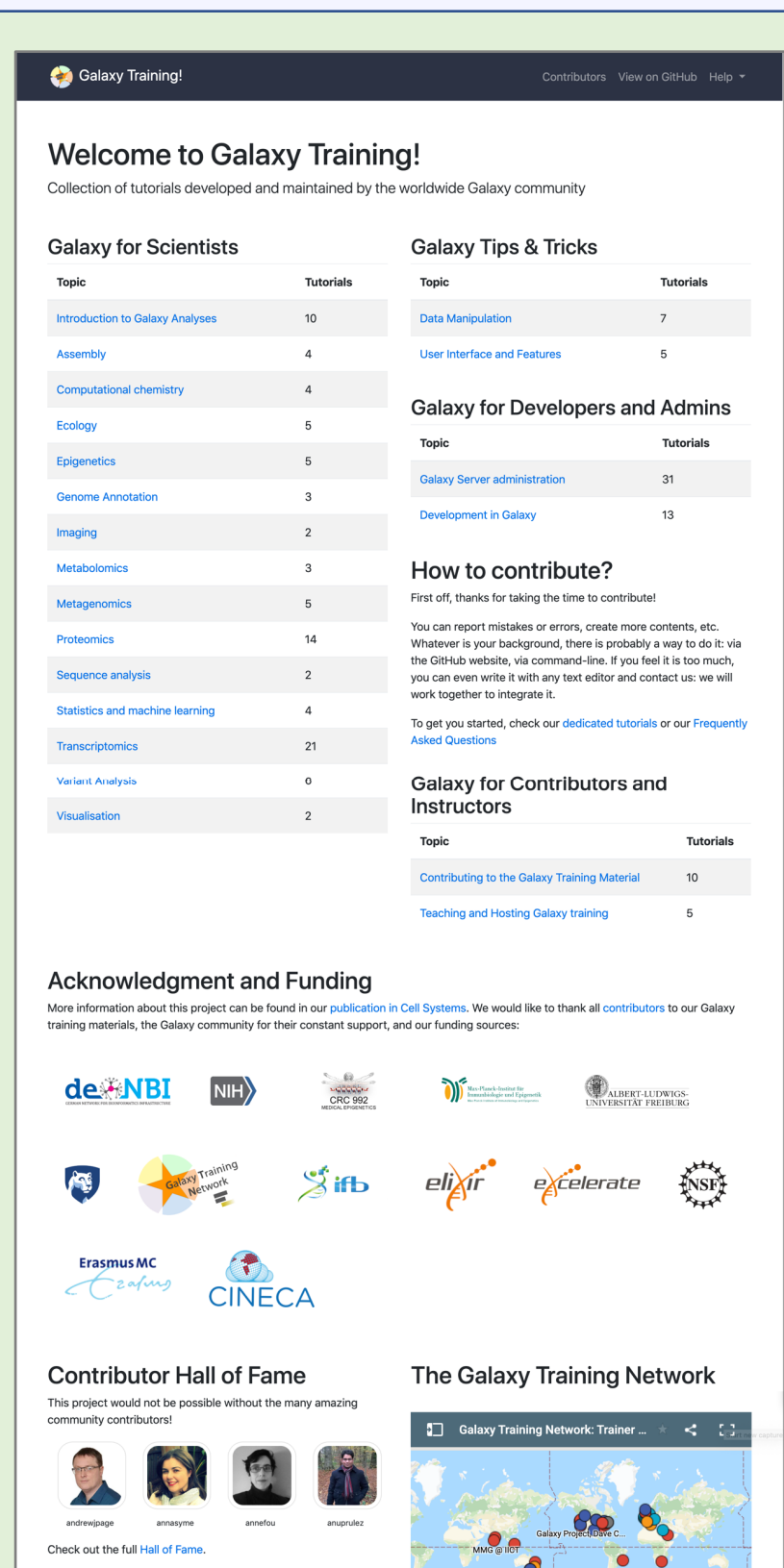
galaxyproject.org/use
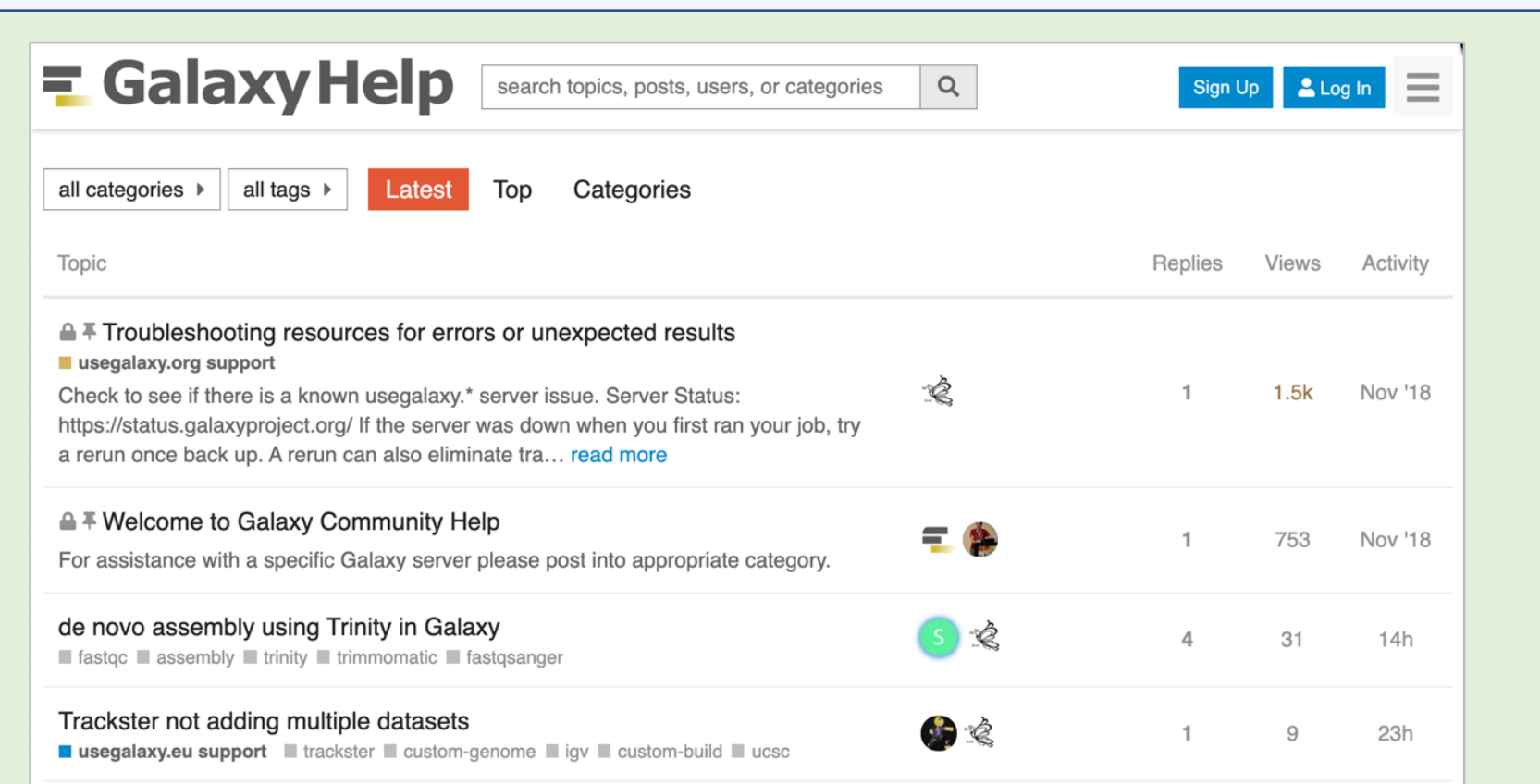
Learn: Everyone

Hands-on tutorials, slides, training datasets, exercises, ...

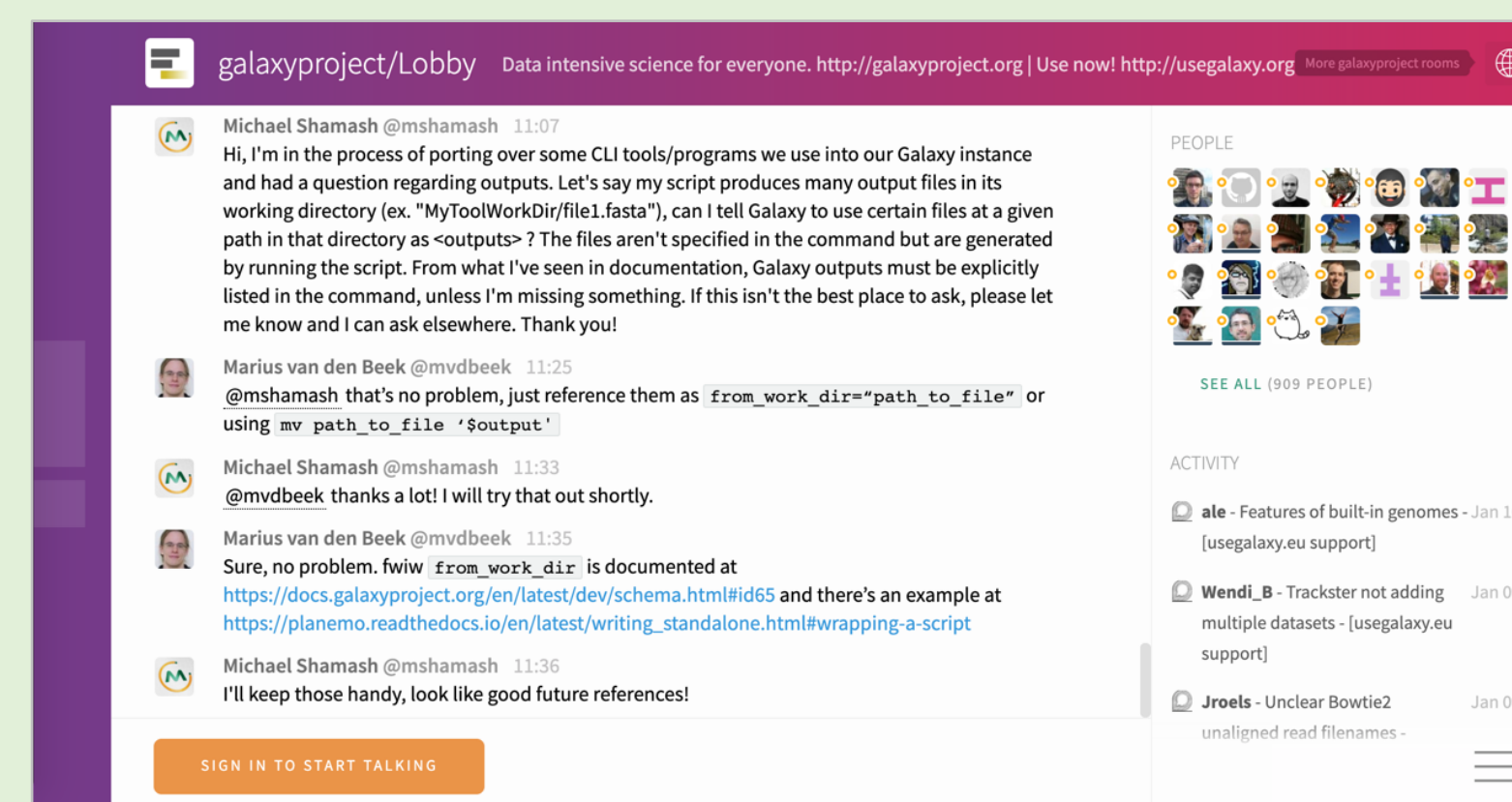See **Poster P141: The Galaxy Training Network: A Community Based Training Resource**

training.galaxyproject.org

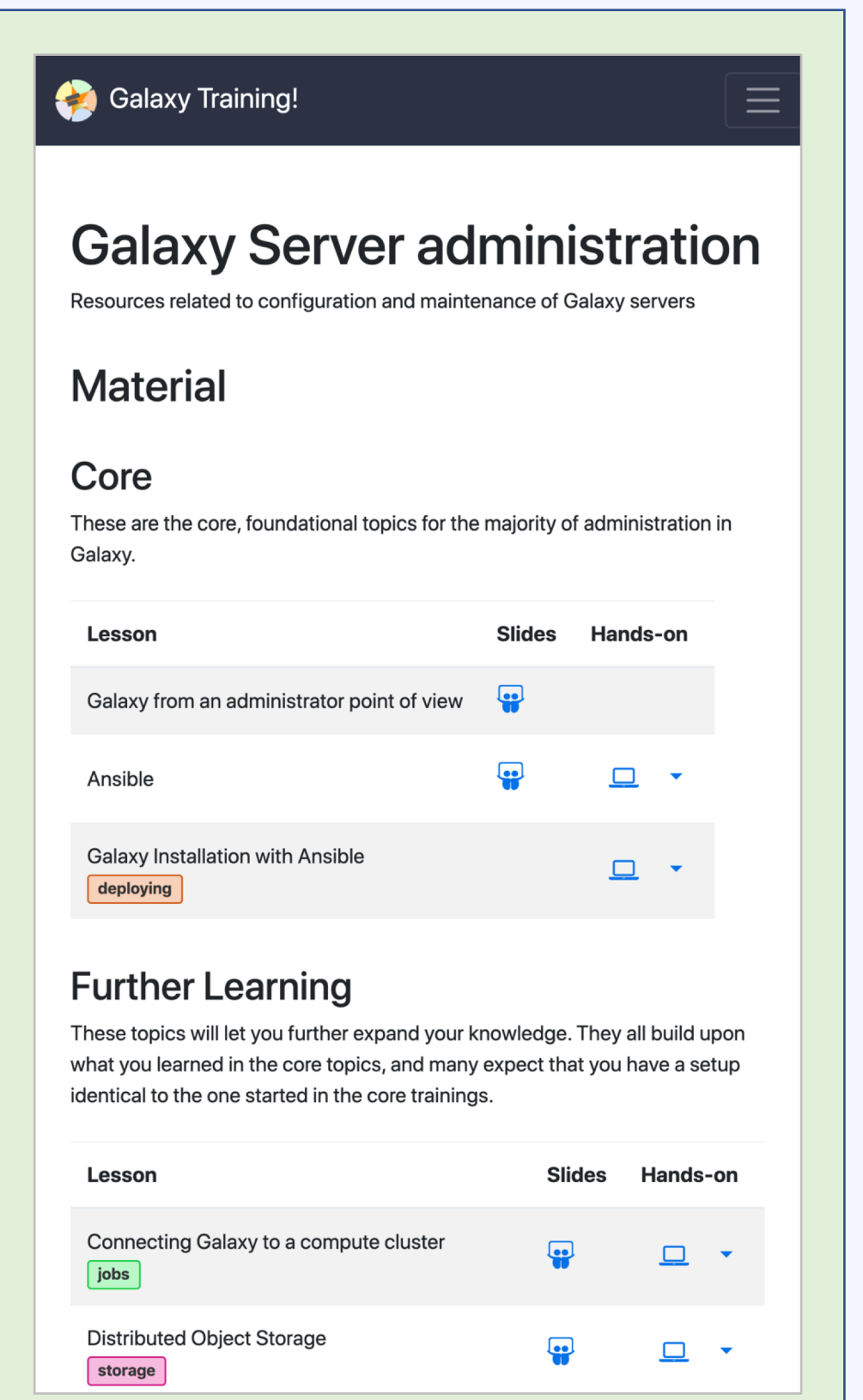## Ask: Support

help.galaxyproject.org

gitter.im/galaxyproject

Enable: Providers

Galaxy is deployed locally, from lab servers to institutional and consortium clusters and clouds.

getgalaxy.org

Galaxy Admin Training Barcelona 2020

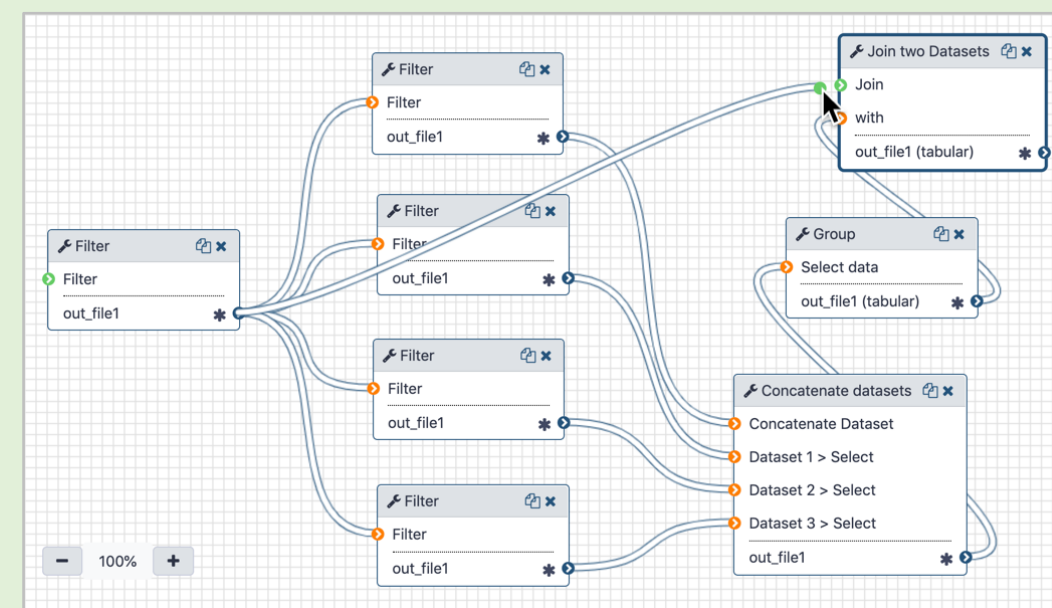## Publish: Tool Devs

Galaxy ToolShed

The Galaxy ToolShed contains over 7,000 tools, datatypes, & workflows, all defined for Galaxy, and easy to install. Wrapping your tools for Galaxy makes them easy to deploy and use.
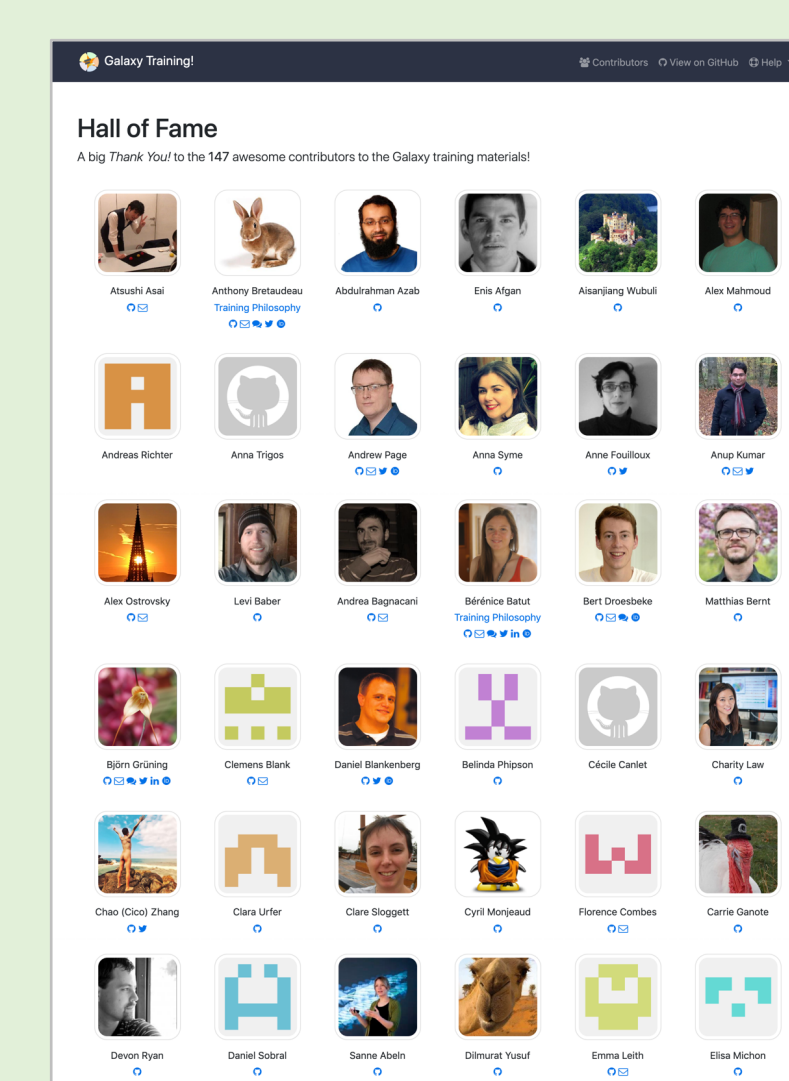
BIOCONDA

Repeat, Share, Publish

Workflows are created from scratch, or extracted from past analyses.

Individual tools through entire analyses can be rerun. Galaxy saves every dataset, tool, and tool parameter.

Galaxy supports sharing and publishing analyses.

Participate: Everyone

BCC BOSC/GCC 2020 TORONTO — Bioinformatics Community Conference

BlackDuck Open Hub:

Over the past twelve months, 157 developers contributed new code to Galaxy ... This is one of the largest open-source teams in the world, ...

openhub.net/p/galaxybx/factoids

galaxyproject.org