

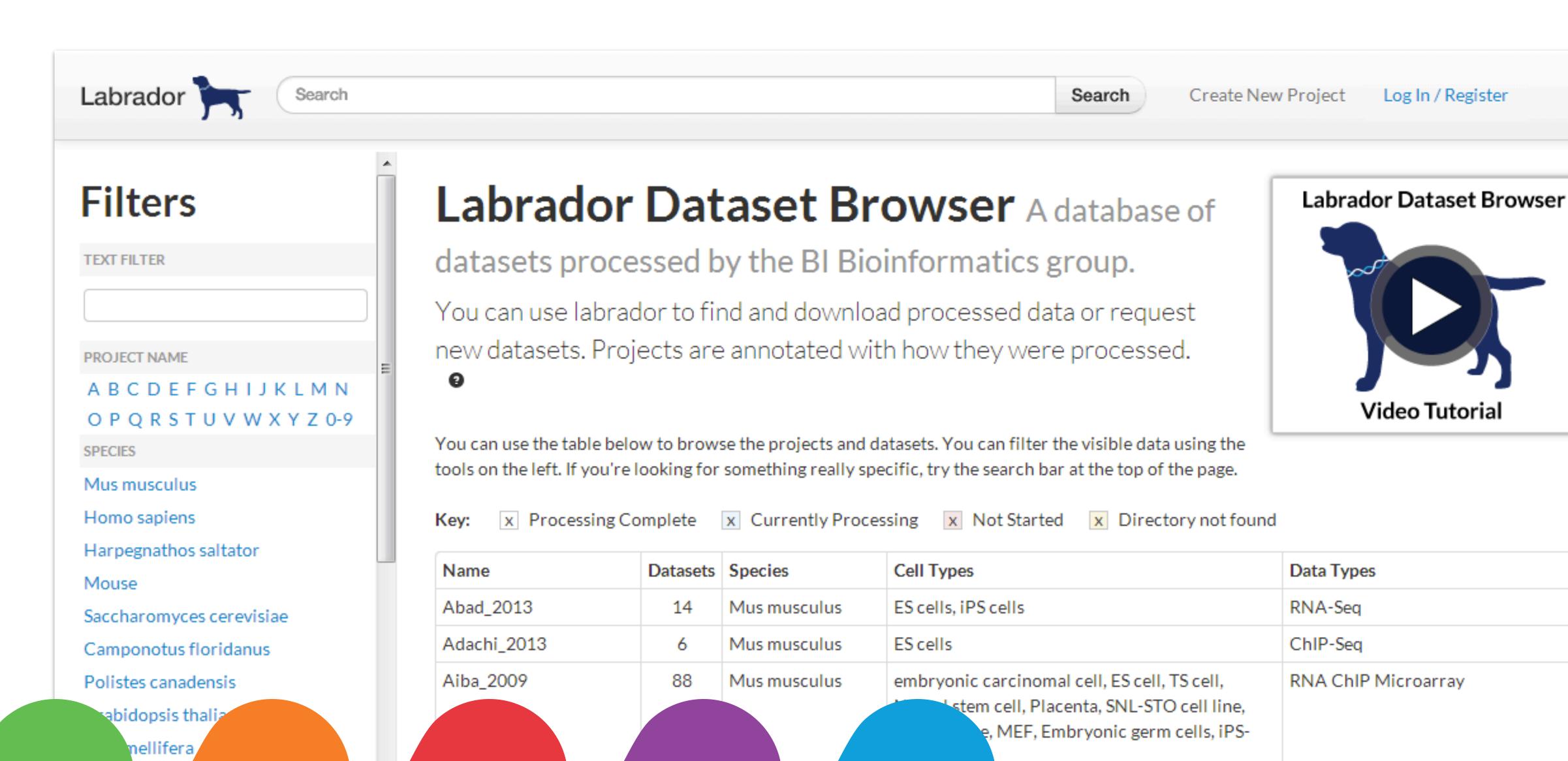
# Adventures in Open Science

NextGenBUG 2022



# Open Science

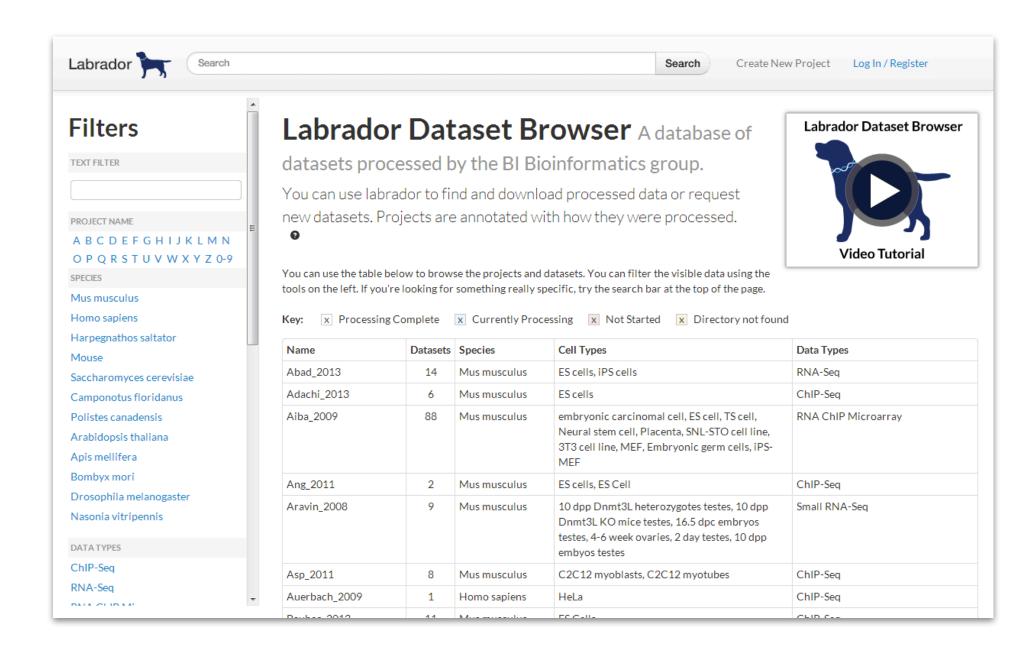
Open Science Open Source Open Data Open Contributions Open Community Open Core



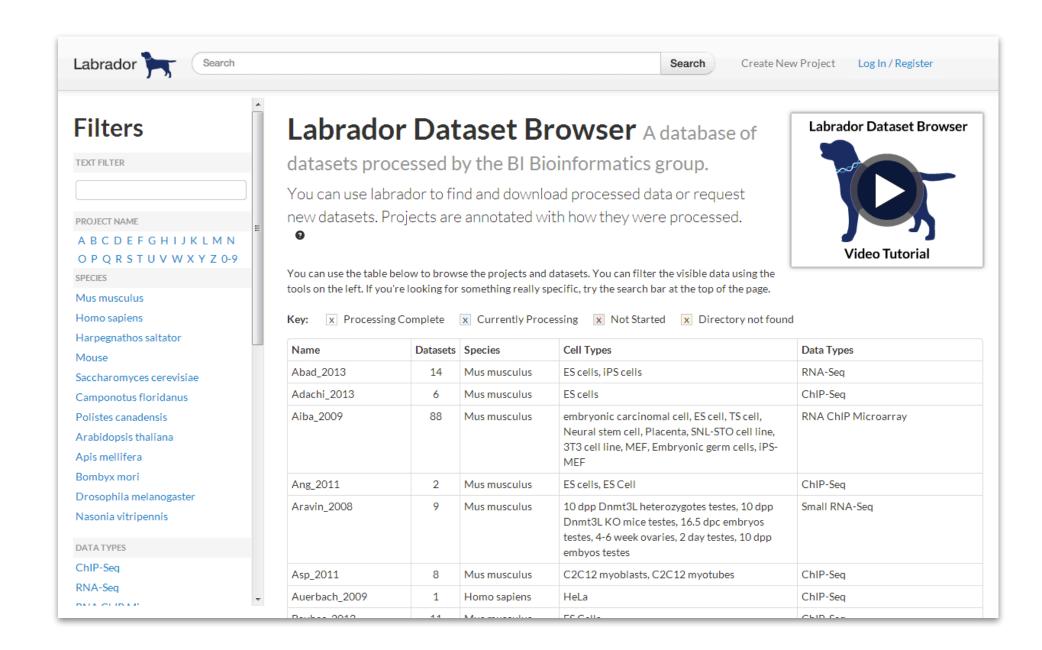
2010 First release

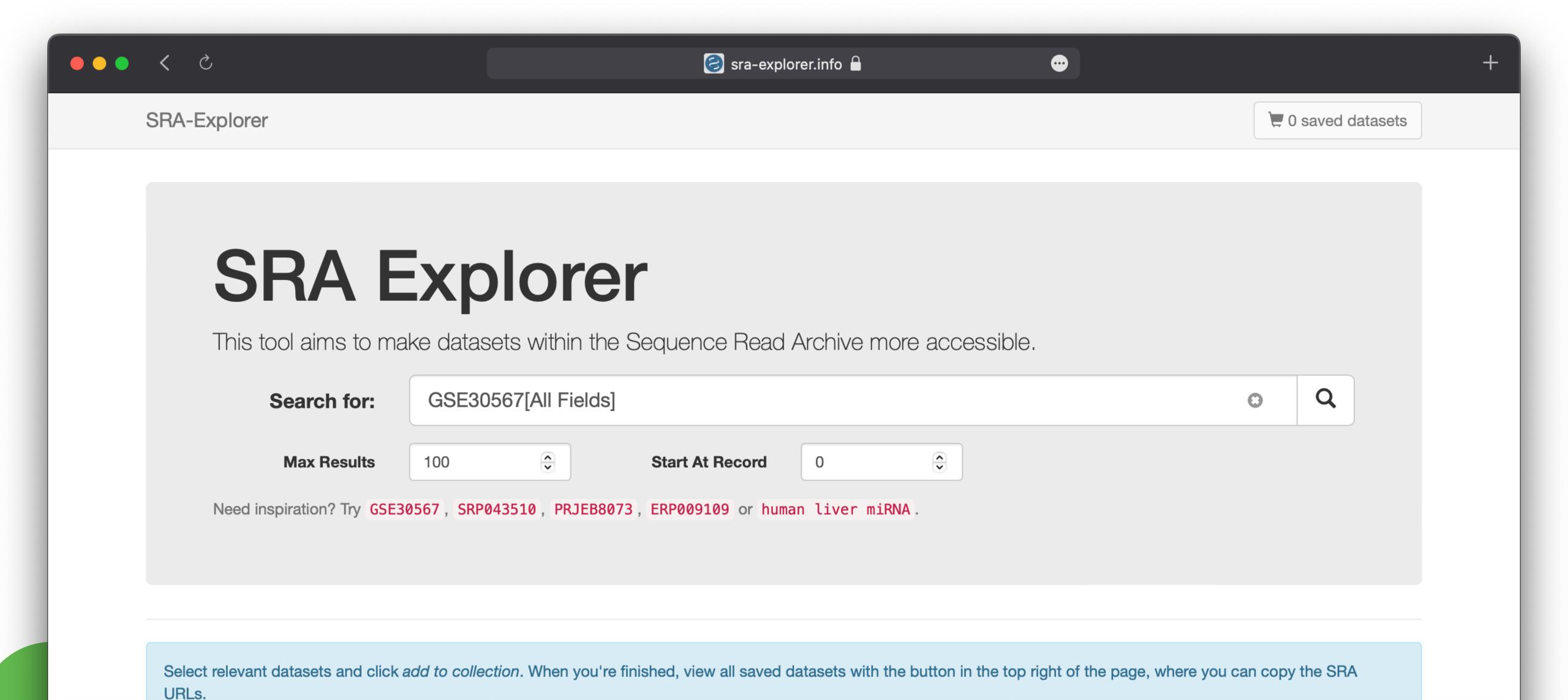
2012 Moved to GitHub

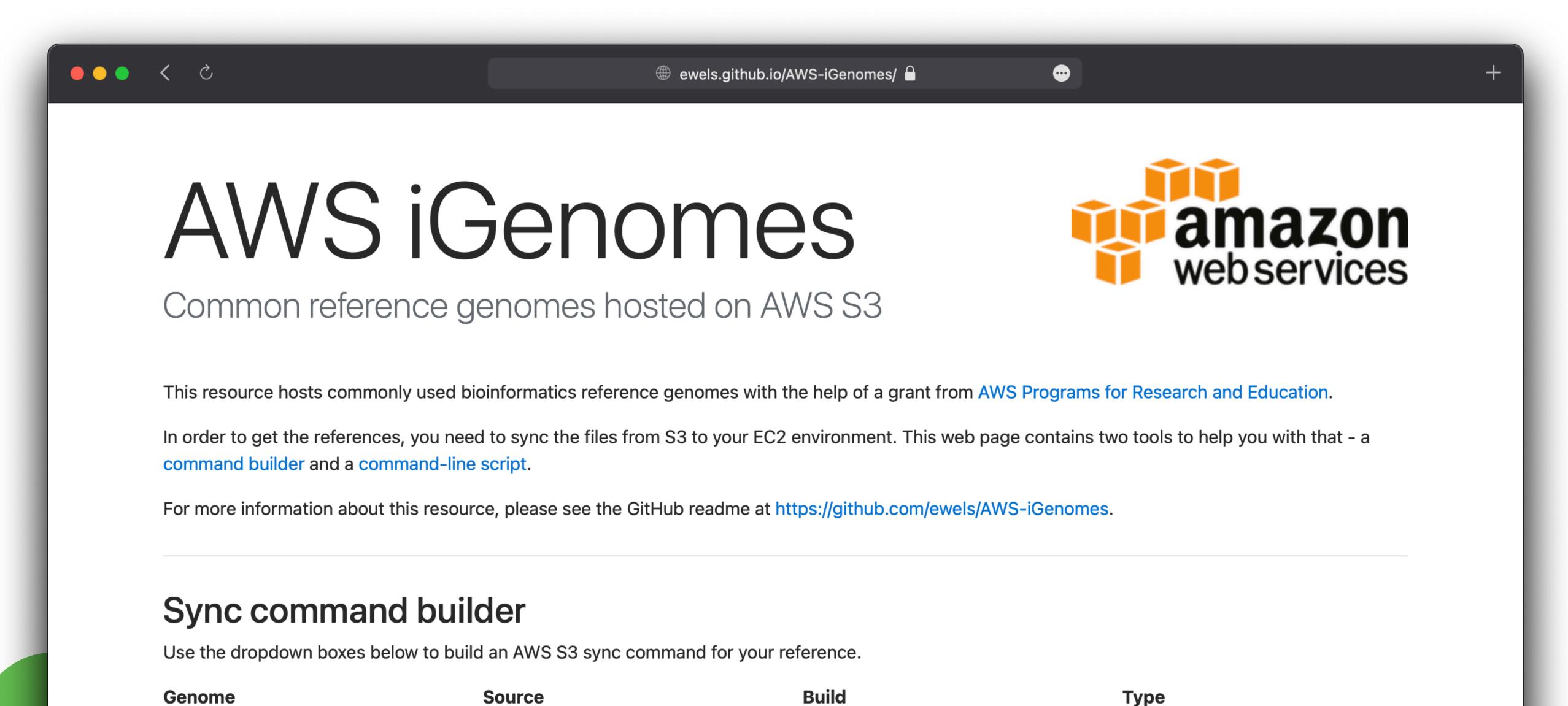
2015 Stopped active development

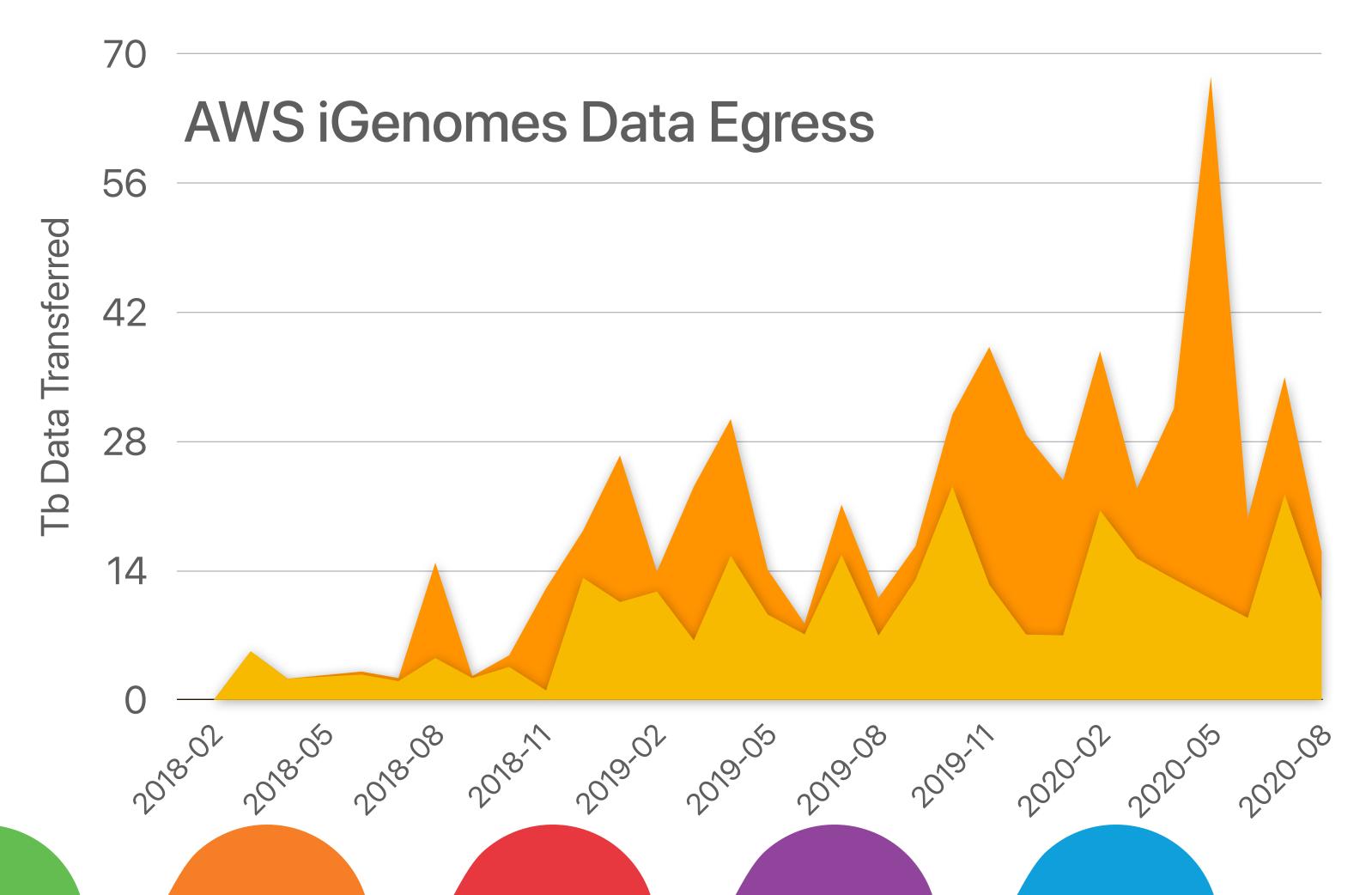


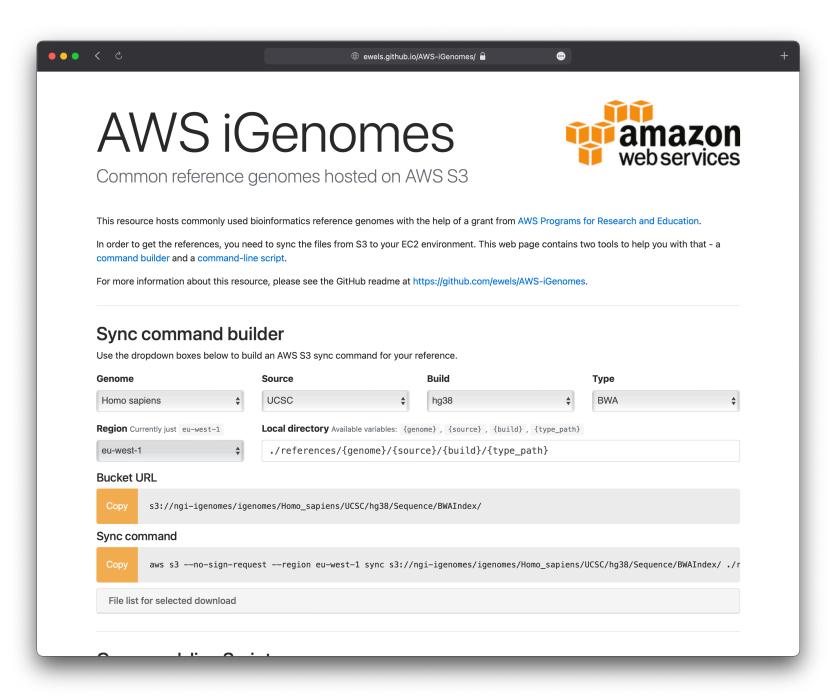
- 2010 First release
- 2012 Moved to GitHub
- 2015 Stopped active development
- 2017 Contributions from Russell Hamilton
- 2018 Fixes from Simon Andrews
- 2021 Updates from Steven Wingett
- 2022 Security patches from Altos Labs





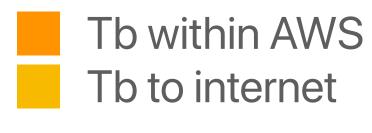






Total storage: ~5.5TB

Human STAR index: ~30GB



(stacked plot)

# Multie

Packaged (easy to install)

Simple user interface

Usage documentation

Sensible defaults



Packaged (easy to install)

Simple user interface

Usage documentation

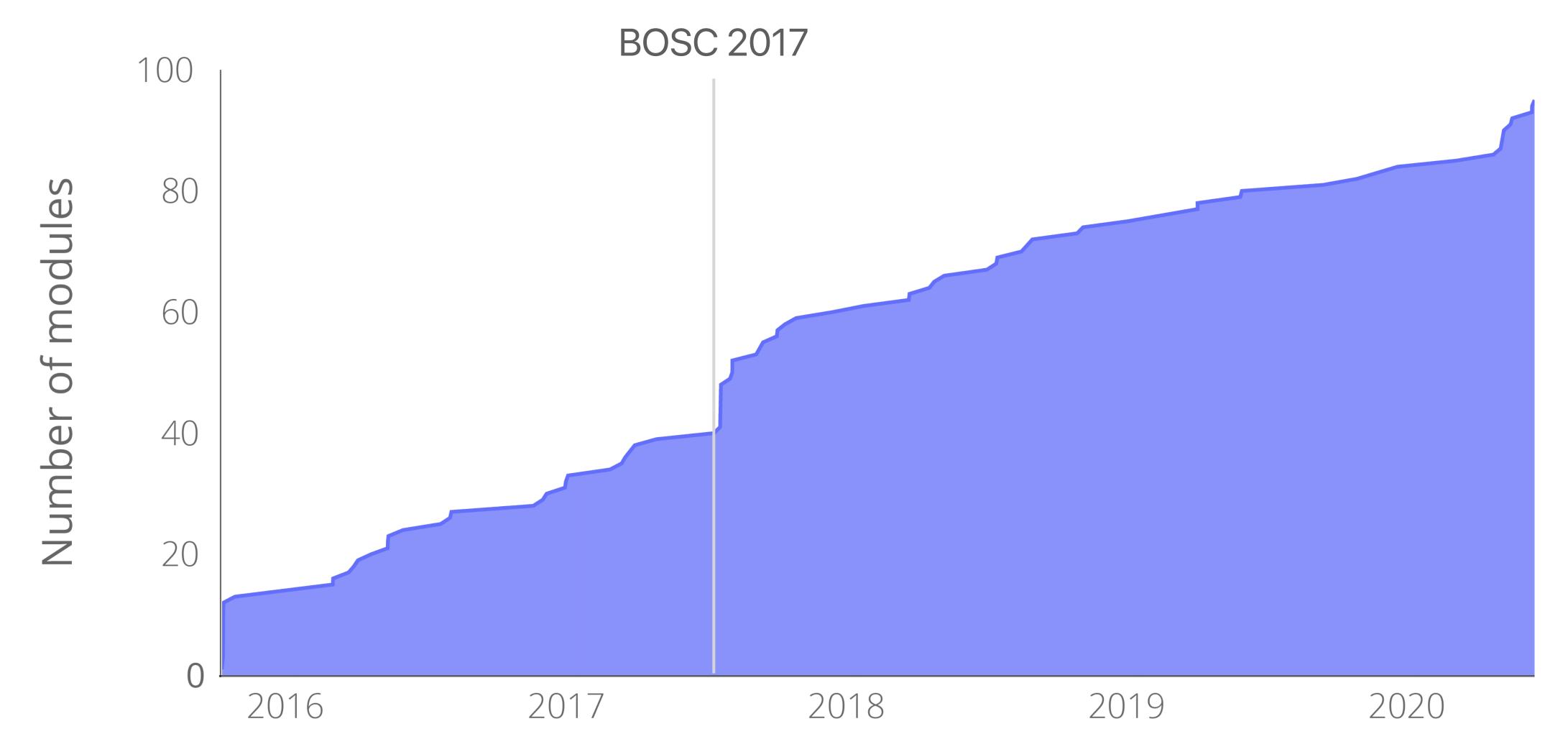
Sensible defaults

Extensibility

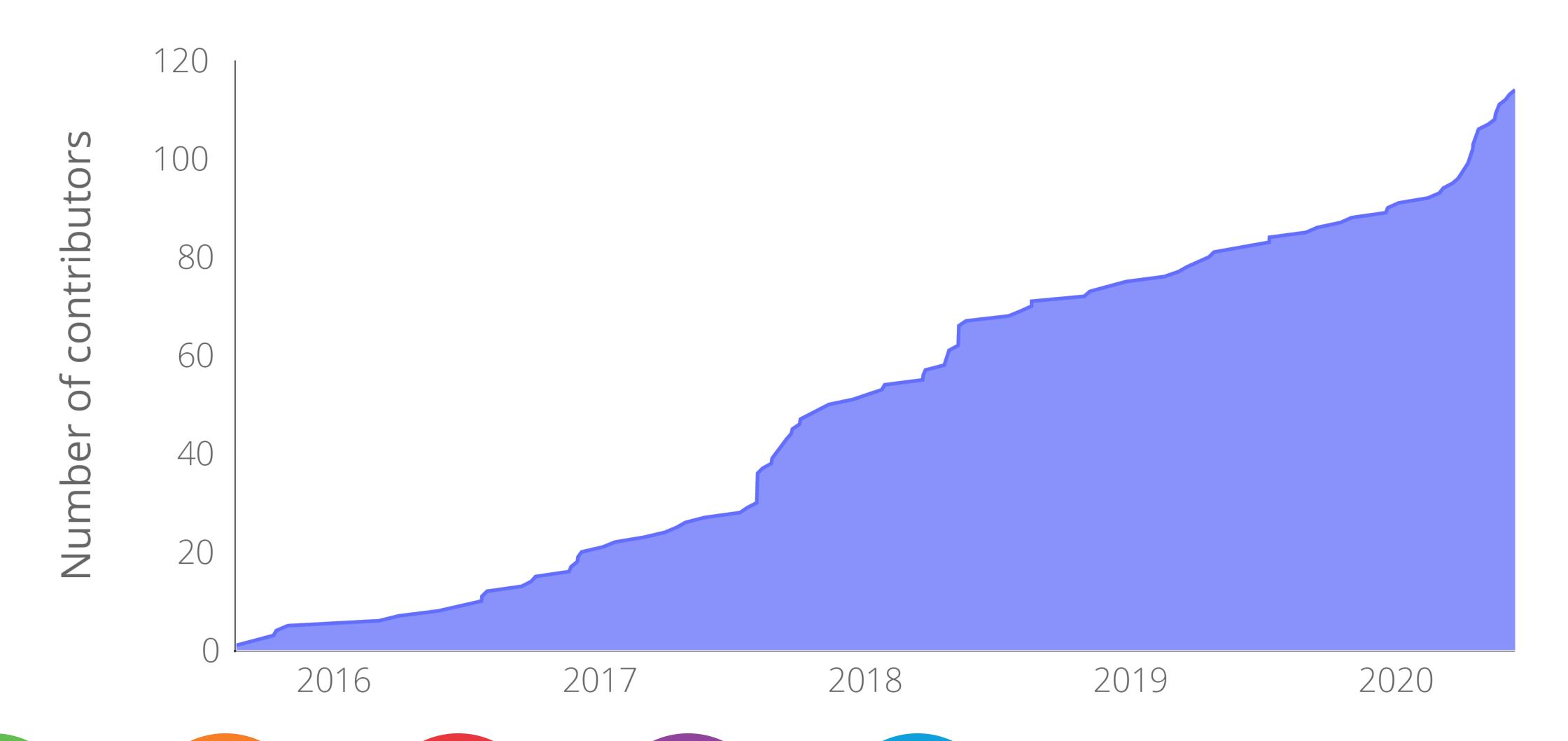
Developer documentation











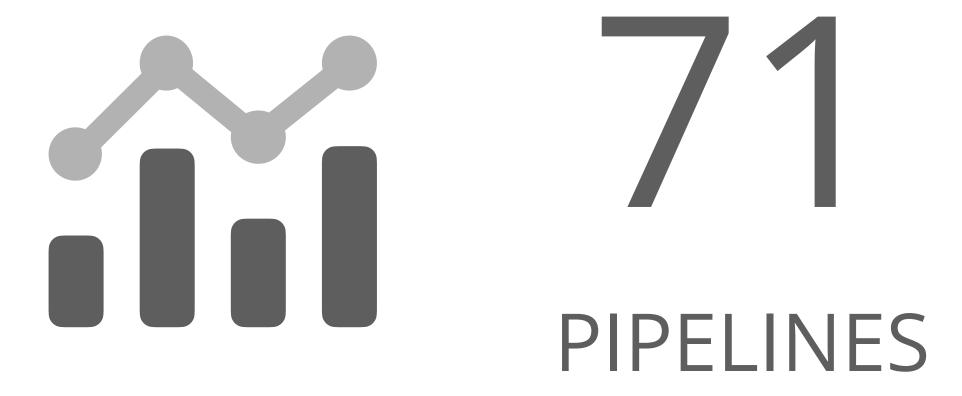


O.45 © Open issue per day

0.23 it Open pull request per day









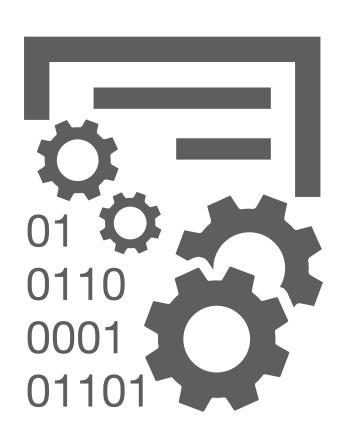


Running pipelines

Writing pipelines

Testing / automation

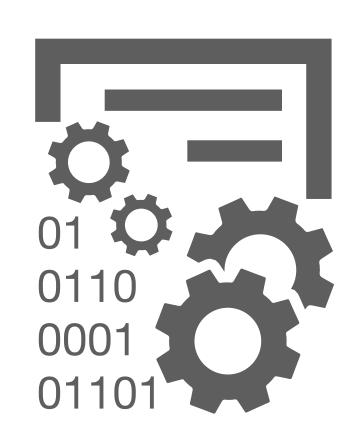




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MODULES





MODULES

SUB-WORKFLOWS

Removal of institutional branding

Defined scope and guidelines

Generous access rights

Focus on developer tooling



Removal of institutional branding

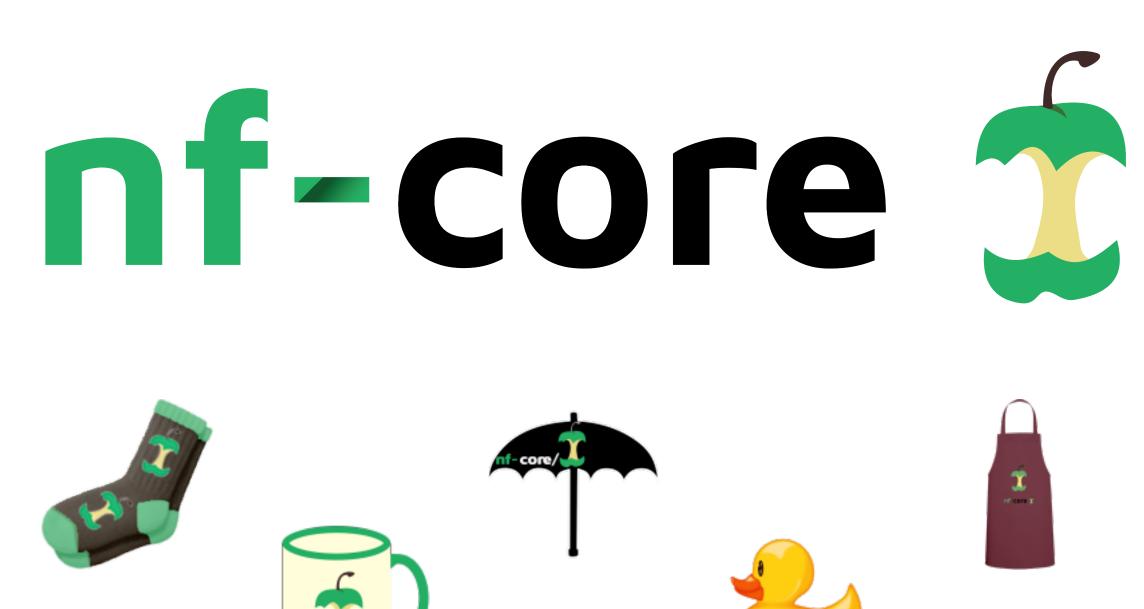
Defined scope and guidelines

Generous access rights

Focus on developer tooling

Automated testing

Enforced code review





> 4000

Members on Slack



320 © Open issue

nf-core hackathon (3 days)

208 ii Open pull request

Nextflow and nf-core are supported by:

















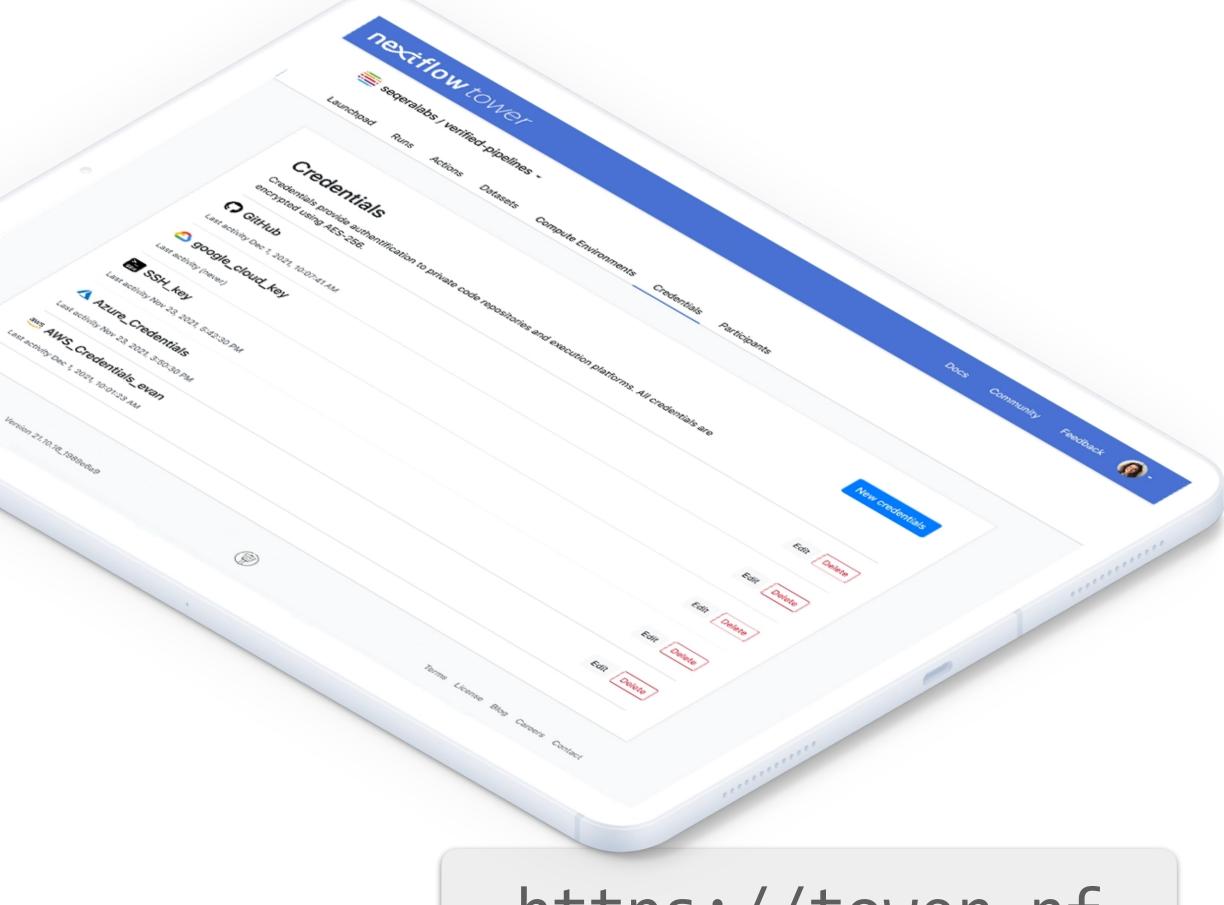


Intuitive launchpad interface

Launch, manage, and monitor

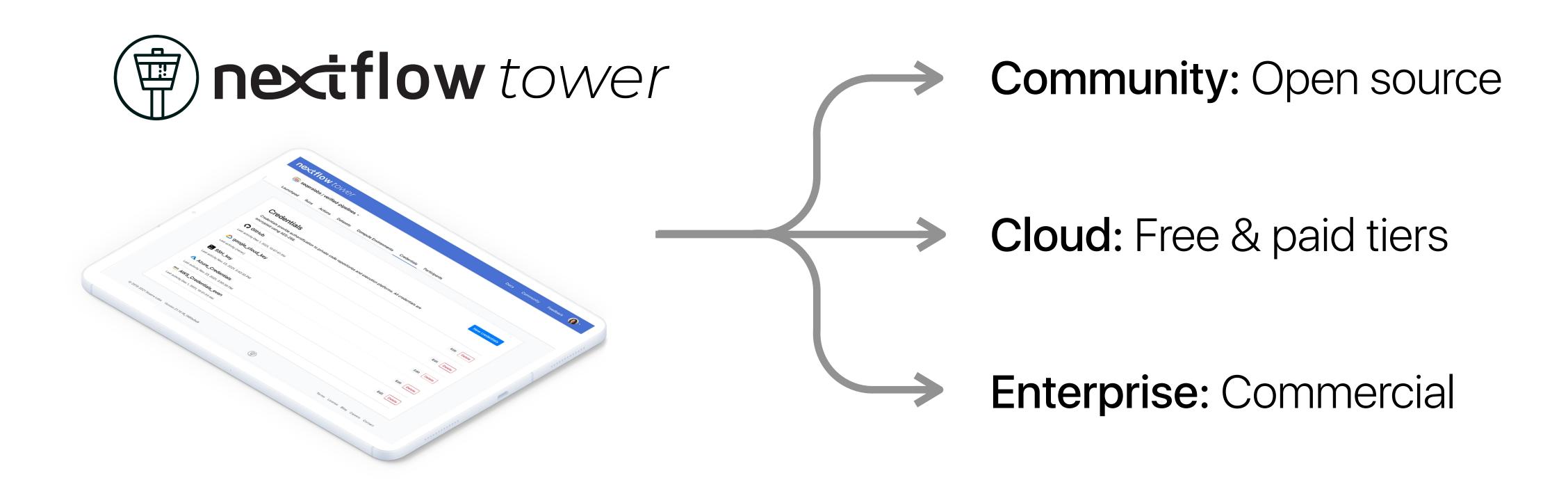
Share runs and work in teams

Create cloud infrastructure with a click



https://tower.nf





https://tower.nf









Open training materials

Open source code

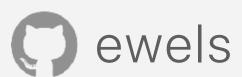
Open communities

#### Phil Ewels

https://phil.ewels.co.uk

phil@seqera.io







https://seqera.io



# nextlow SUMIT 2022

https://summit.nextflow.io

#### Mentorship applications

Close November 1st 2022

#### Nextflow / nf-core training

6-10 March 2023

#### nf-core hackathon

20-24 March 2023

https://nf-co.re/join