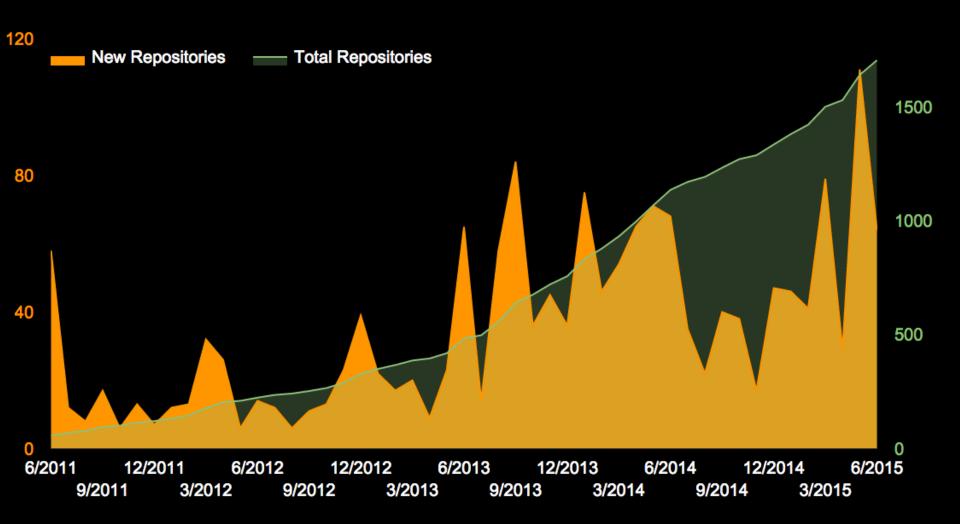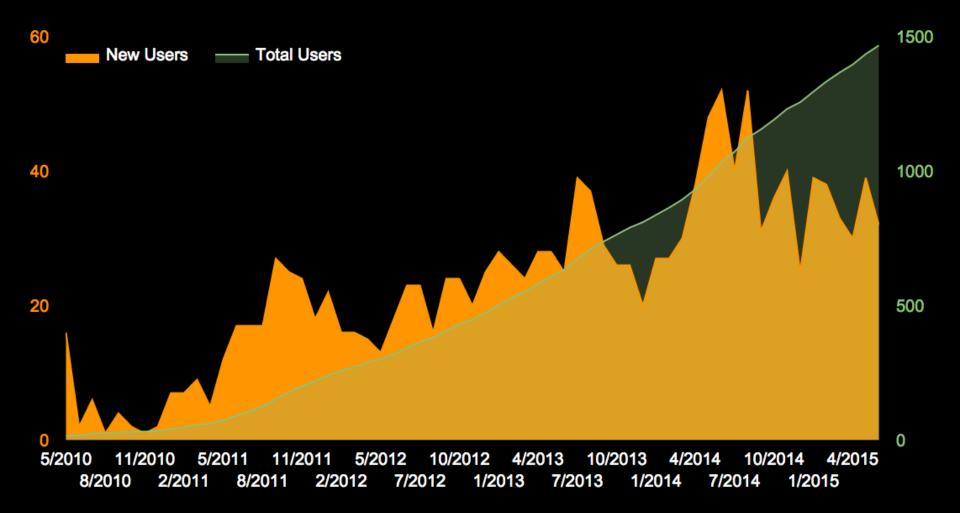# Galaxy
## PROJECT

# The Tool Shed

Martin Čech, John Chilton, Björn Grüning, Eric Rasche, Nicola Soranzo,
Anton Nekrutenko, Dave Bouvier, Daniel Blankenberg, Nate Coraor,
Galaxy Team, and Galaxy Community

http://bit.ly/toolshed15

# What is it?

Tool Shed is to Galaxy
as
App Store is to iPhone
(plus some more)

**Galaxy Tool Shed**

3254 valid tools on Jun 25, 2015

| Item | Count |
| --- | --- |
| Total repositories | 1705 |
| Unique owners | 331 |
| Deprecated repositories | 291 |
| Deleted repositories | 16 |
| Valid tools | 3254 |
| Valid versions of tools | 4874 |
| Invalid versions of tools | 119 |
| Exported Galaxy workflows | 178 |
| Custom datatypes | 518 |
| Total clones | 254678 |

Regenerate statistics

# What is new?

# PLANEMO
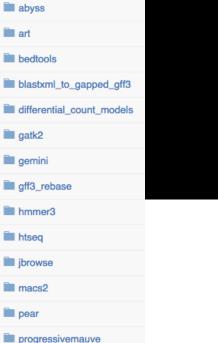
**has been born**

**A tool to build Galaxy Tools**

**talk by @jmchilton 10:10am tomorrow**

**Jenkins**

search

log in

⬆ Back to Dashboard

🔍 Status

📝 Changes

GitHub

🛡 Embeddable Build Status

📋 Planemo HTML Reports

📋 GitHub Hook Log

**Build History**          trend ▬

⚪ **#353**
(pending—Build #350 is already in progress (ETA:56 min)) 📝

⚪ **#352**
(pending—Build #350 is already in progress (ETA:56 min)) 📝

⚪ **#351**
(pending—Build #350 is already in progress (ETA:56 min)) 📝

🟡 **#350**   Jul 7, 2015 9:04 AM

# Project IUC-Github

📊 Planemo HTML Reports

📝 Recent Changes

📋 Latest Test Result (57 failures / -10)

## Permalinks

- Last build (#350), 19 min ago
- Last successful build (#349), 1 hr 29 min ago
- Last unstable build (#349), 1 hr 29 min ago
- Last unsuccessful build (#349), 1 hr 29 min ago

### Test Result Trend

(just show failures) enlarge

**Issues list (left panel):**

- weblogo3 tool fails when "Text" output format is selected
  #141 opened on May 26 by bcclaywell

- Missing dependencies in package_fastx_toolkit_0_0_13 .
  #136 opened on May 20 by nsoranzo

- fastq groomer does not parse sequence ids that contain spaces properly `bug`
  #130 opened on May 8 by lparsons

- bowtie2 index data manager fails if
  #127 opened on May 5 by nitesh1989

- ${static_path} should not be used?
  #126 opened on May 5 by scholtalbers

- samtools_phase tests fail `bug`
  #113 opened on Apr 21 by martenson

- vcftools dependencies: tabix and bg
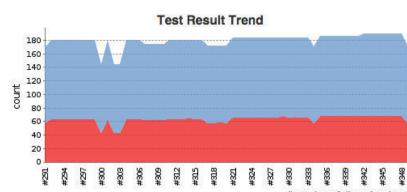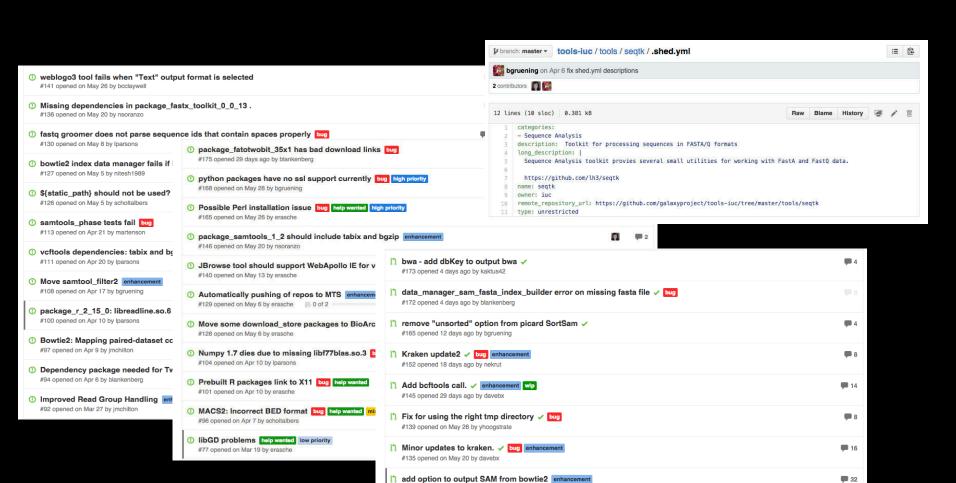  #111 opened on Apr 20 by lparsons

- Move samtool_filter2 `enhancement`
  #108 opened on Apr 17 by bgruening

- package_r_2_15_0: libreadline.so.6
  #100 opened on Apr 10 by lparsons

- Bowtie2: Mapping paired-dataset co
  #97 opened on Apr 9 by jmchilton

- Dependency package needed for Tv
  #94 opened on Apr 6 by blankenberg

- Improved Read Group Handling `enh`
  #92 opened on Mar 27 by jmchilton

**Middle panel:**

- package_fatotwobit_35x1 has bad download links `bug`
  #175 opened 29 days ago by blankenberg

- python packages have no ssl support currently `bug` `high priority`
  #168 opened on May 28 by bgruening

- Possible Perl installation issue `bug` `help wanted` `high priority`
  #165 opened on May 26 by erasche

- package_samtools_1_2 should include tabix and bgzip `enhancement`
  #146 opened on May 20 by nsoranzo

- JBrowse tool should support WebApollo IE for v
  #140 opened on May 13 by erasche

- Automatically pushing of repos to MTS `enhancement`
  #129 opened on May 6 by erasche    0 of 2

- Move some download_store packages to BioArc
  #128 opened on May 6 by erasche

- Numpy 1.7 dies due to missing libf77blas.so.3 `b`
  #104 opened on Apr 10 by lparsons

- Prebuilt R packages link to X11 `bug` `help wanted`
  #101 opened on Apr 10 by erasche

- MACS2: Incorrect BED format `bug` `help wanted` `mi`
  #96 opened on Apr 7 by scholtalbers

- libGD problems `help wanted` `low priority`
  #77 opened on Mar 19 by erasche

**Right panel (code view):**

branch: master ▾   **tools-iuc** / **tools** / **seqtk** / **.shed.yml**

bgruening on Apr 6 fix shed.yml descriptions

2 contributors

12 lines (10 sloc)   0.381 kB       Raw  Blame  History

```
1   categories:
2   - Sequence Analysis
3   description: Toolkit for processing sequences in FASTA/Q formats
4   long_description: |
5     Sequence Analysis toolkit provies several small utilities for working with FastA and FastQ data.
6
7     https://github.com/lh3/seqtk
8   name: seqtk
9   owner: iuc
10  remote_repository_url: https://github.com/galaxyproject/tools-iuc/tree/master/tools/seqtk
11  type: unrestricted
```

**Right panel (pull requests):**

- bwa - add dbKey to output bwa ✔
  #173 opened 4 days ago by kaktus42    4

- data_manager_sam_fasta_index_builder error on missing fasta file ✔ `bug`
  #172 opened 4 days ago by blankenberg    0

- remove "unsorted" option from picard SortSam ✔
  #165 opened 12 days ago by bgruening    4

- Kraken update2 ✔ `bug` `enhancement`
  #152 opened 18 days ago by nekrut    8

- Add bcftools call. ✔ `enhancement` `wip`
  #145 opened 29 days ago by davebx    14

- Fix for using the right tmp directory ✔ `bug`
  #139 opened on May 26 by yhoogstrate    8

- Minor updates to kraken. ✔ `bug` `enhancement`
  #135 opened on May 20 by davebx    16

- add option to output SAM from bowtie2 `enhancement`
  #59 opened on Jan 30 by jsh58    32

# **Tool Dev Best Practices Defined**

The IUC has put together best practice standards to guide new as well as experienced tool developers.

http://bit.ly/iucstandards

# The Search API

We implemented separate full text search APIs for repositories and tools.

Endpoints support jsonp requests thus allowing to be called from within any JavaScript application.

Sample app runs at http://toolshed.tools

# The Groups

**Galaxy Tool Shed / (sandbox for testing)**    Repositories    Groups    Admin    Help ▾    User ▾

## Intergalactic Utilities Commission

A group of 14 members with 945 repositories and a total of 81160 combined repository clones.

### Members

| Name | Repositories | Registered |
|------|--------------|------------|
| bgruening | 115 | 2 years ago |
| clements | 0 | 2 years ago |
| dave | 2 | 2 years ago |
| devteam | 305 | 3 years ago |

## Repositories

| Name | Description | Clones | Owner | Categories | Created | Updated | |
|------|-------------|--------|-------|-----------|---------|---------|---|
| bismark | A flexible aligner and methylation caller for Bisulfite-Seq applications | 162 | bgruening | Next Gen Mappers | 2 years ago | 5 hours ago | |
| trim_galore | Trim Galore adaptive quality and adapter trimmer | 113 | bgruening | Sequence Analysis | 2 years ago | yesterday | |
| chemical_datatypes | Datatypes and converter for cheminformatics | 28 | bgruening | Computational chemistry | 2 years ago | 2 years ago | |
| bedtools_test_bag | bedtools from bag | 107 | bgruening | SAM | 2 years ago | 3 weeks ago | |
| package_openbabel_2_3 | Contains a tool dependency definition that downloads and compiles version 2.3.2 of the Open Babel package | 102 | bgruening | Tool Dependency Packages | 2 years ago | 1 years ago | |
| package_numpy_1_7 | Contains a tool dependency definition that downloads and compiles version 1.7 of the the python numpy package | 138 | bgruening | Tool Dependency Packages | 2 years ago | 1 years ago | |
| chemfp | Chemfp tools. | 131 | bgruening | Computational chemistry | 2 years ago | 2 days ago | |
| molecule_datatypes | Datatypes and converter for cheminformatics | 163 | bgruening | Computational chemistry Convert Formats | 2 years ago | 1 months ago | |
| openbabel | Open Babel tools | 180 | bgruening | Computational chemistry | 2 years ago | 6 days ago | |
| osra | OSRA – Optical Structure Recognition Application | 135 | bgruening | Computational chemistry | 2 years ago | 1 weeks ago | |
| confab | Systematic conformation generator | 124 | bgruening | Computational chemistry | 2 years ago | 4 weeks ago | |
| simsearch | Similarity search with openbabel or chemfp | 187 | bgruening | Computational chemistry | 2 years ago | yesterday | |
| chemicaltooblox | Metapackage | 33 | bgruening | Computational chemistry | 2 years ago | yesterday | |
| silicos_it | silicos | 103 | bgruening | Computational chemistry | 2 years ago | 3 days ago | |
| package_matplotlib_1_2 | Contains a tool dependency definition that downloads and compiles version 1.2.x of the the python matplotlib package. | 55 | bgruening | Tool Dependency Packages | 2 years ago | 1 years ago | |
| chemical_data_sources | Data sources for small molecules | 83 | bgruening | Data Source | 2 years ago | 4 days ago | |
| package_freetype_2_4 | Contains a tool dependency definition that downloads and compiles version 2.4 of the freetype font library. | 134 | bgruening | Tool Dependency Packages | 2 years ago | 19 hours ago | |

# What is the plan?

http://bit.ly/toolshed15

# Leverage other sw dist platforms



http://brew.sh/



http://bioboxes.org/

# Publishing control

Connected repository: https://github.com/yourname/fastqc

**Fetch new**

### Fetched:

| Preview | Wrapper version | Time fetched | Changeset | Tests | | |
|---|---|---|---|---|---|---|
| 👁 | 1.2.4 | 27min ago | ef1245ff6 | None | Discard | Activate |
| 👁 | 1.1.4 | 5h ago | af1145ff6 | passing (5 mins ago) | Discard | Activate |
| 👁 | 1.1.4 | 3 days ago | cd3325ff6 | running (for 6 mins) | Discard | Activate |
| 👁 | 1.1.4 | 2 years ago | ffg455f1f6 | failing (40 mins ago) | Discard | Activate |

### Active:

| Preview | Wrapper version | Time fetched | Changeset | Tests | |
|---|---|---|---|---|---|
| 👁 | 0.2.1 | 27min ago | ef1245ff6 | waiting | Deprecate |
| 👁 | 0.1.1 | 5h ago | af1145ff6 | passing (5 mins ago) | Deprecate |
| 👁 | 0.1.1 | 3 days ago | cd3325ff6 | running (for 25 mins) | Deprecate |
| 👁 | 0.1.5 | 2 years ago | ffg455f1f6 | failing (40 mins ago) | Deprecate |

### Deprecated:

| Preview | Wrapper version | Time fetched | Changeset | Tests | |
|---|---|---|---|---|---|
| 👁 | 0.1.4 | 27min ago | ef1245ff6 | waiting | Activate |
| 👁 | 0.0.4 | 5h ago | af1145ff6 | passing (5 mins ago) | Activate |
| 👁 | 0.0.4 | 3 days ago | cd3325ff6 | running (for 40mins) | Activate |
| 👁 | 0.0.4 | 2 years ago | ffg455f1f6 | failing (40 mins ago) | Activate |

# Thank you
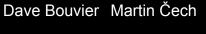
Enis Afghan

Dannon Baker

Dan Blankenberg

Dave Bouvier

Martin Čech

John Chilton

Björn Grüning

Peter Cock

Dave Clements

Nate Coraor

Carl Eberhard

Jeremy Goecks

Aysam Guerler

Jen Jackson

Eric Rasche

Nicola Soranzo

Ross Lazarus

Anton Nekrutenko

Nick Stoler

James Taylor

Nitesh Turaga

https://wiki.galaxyproject.org/GalaxyTeam    https://wiki.galaxyproject.org/IUC