Galaxy Tool - Versioning

Changes you make to your tool code can be called:

An update: a cosmetic change or functional enhancement that doesn't affect the previous output behaviour of the tool. (This can also include bug fixes that remedy previously useless output.)

A revision: a functional enhancement that changes the previous output of the tool, or marks other significant enhancements.

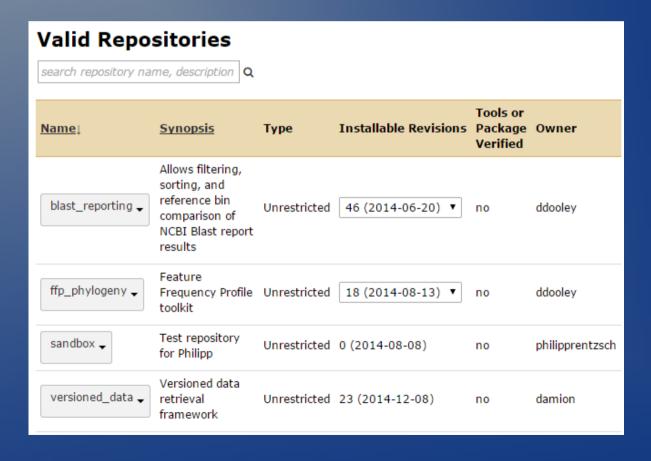


Mask of Yul Brynner, Westworld (1973)

Created by Hsiao lab, BC Public Health Microbiology & Reference Laboratory, BC Centre for Disease Control, https://github.com/Public-Health-Bioinformatics

Sharing your Galaxy tool with the world

This involves uploading the tool files into a Galaxy "toolshed" where a Galaxy admin can select it for installation at their own location.



Galaxy Tool – Version Id

One should increment a tool's version number if the latest changes are a revision (rather than an update).

<tool id="bccdcBLASTreporting" name="BLAST Reporting" version="1.0.5">

Incrementing the version number causes the Toolshed (and Galaxy) to treat the version of a tool as its own entity, like a new model of a car that can be taken out for a drive. With more than one tool version installed, a user will have a choice of which to run on their data.







Galaxy Tool – Version Id

Note: The Galaxy toolshed "Revisions" list is a bit odd in that it lists off its own item record id and upload date, but doesn't list the tool's version id. (View its record to see this).

| <u>Name</u> ↓ | <u>Synopsis</u> | Туре | Metadata Revisions |
|-----------------|--|--------------|--|
| blast reporting | Allows filtering, sorting, and reference bin comparison of NCBI Blast report results | Unrestricted | 46 (2014-06-20) ▼ 46 (2014-06-20) 32 (2014-05-08) 21 (2014-01-21) 19 (2014-01-21) 18 (2014-01-20) |
| ffp_phylogeny | Feature Frequency Profile toolkit | Unrestricted | |

If you don't change the version number, the upload will be considered an update to the existing toolshed version (same car). Your changes can be downloaded to other Galaxy installs, but are applied to their currently loaded tool if has the same version number.

Preparing a Toolshed Update

Make a tar archive of the tool folder contents for upload to a toolshed.

Select which files or subfolders to include or exclude in the archive. E.g. include all files **except** text editor backups, compiled python templates, and planemo output reports:

```
tar -zcvf [tool name].tar.gz * --exclude "*~" --exclude "*.pyc" --exclude "tool_test_output*" --exclude "*.gz"
```

Download to your local computer so that it can be uploaded to a Galaxy toolshed. The last "./" places the file in your current folder.

scp [your user name]@[your server name]:\
/usr/local/galaxy/galaxytest/galaxy-dist/tools/TESTING/[folder]/[tool name].tar.gz ./

Links

https://wiki.galaxyproject.org/ToolShed/PublishTool