

Pegasus Users Group





Pegasus is funded by the National Science Foundation under grant #1664162

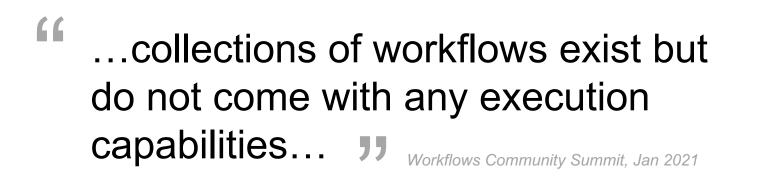




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Pegasus is funded by the National Science Foundation under grant #1664162



inspired by:







pegasushub.io



Workflows	
How to Contribute	

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The Pegasus project is supported by the National Science Foundation under the OAC SI2-SSI program, grant #<u>1664162</u>. Pegasus also receives support from the Department of Energy, the National Institutes of Health, Defense Advanced Research Projects Agency, and the USC Information Sciences Institute.

PegasusHub

A Community-enabled Workflows Repository for Pegasus

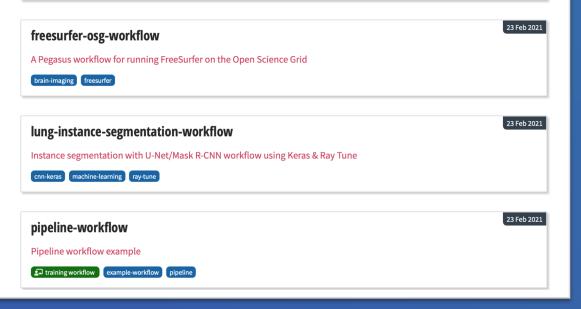
PegasusHub provides a **curated** collection of open source <u>Pegasus</u> workflow repositories hosted at <u>GitHub</u>. Currently, the hub hosts **10** workflow repositories.

Recent Repositories

diamond-workflow

Pegasus Diamond Workflow

Training workflow diamond-workflow example-workflow





A Community-enabled Workflows Repository for Pegasus

23 Feb 2021

*** To be officially released with Pegasus 5.1



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14

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Home

Workflows

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montage-workflow-v3

A Montage workflow for Pegasus 5.0

Latest Release	No release available
Pegasus Version	5.0.0
Dependencies	Montage 6.0, AstroPy 1.0
License	Apache License 2.0
GitHub Repository	https://github.com/pegasus-isi/montage-workflow-v3
Topics	astronomy

montage-workflow-v3

NOTE: This is a Montage workflow version which requires Pegasus 5.0. For a version that works with Pegasus 4, please use montageworkflow-v2

A new Python DAX generator version of the classic Montage workflow. This workflow uses the <u>Montage toolkit</u> to re-project, background correct and add astronomical images into custom mosaics.

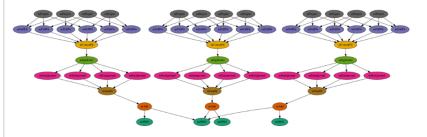
Prerequisites

- Pegasus version 5.0 or later
- Montage version 6.0 or later
- <u>AstroPy</u> version 1.0 or later

Plan a Montage Workflow

The ./montage-workflow.py Python script sets up a data/ directory with a Pegasus DAX, image tables and region headers. For example:

This will create a 2x2 degree mosaic centered on 56.7 24.0, with 3 bands making up the red, green, and blue channels for the final JPEG output. A 2 degree workflow has a lot of input images and thus the workflow becomes wide. I simplified version of the workflow looks like:



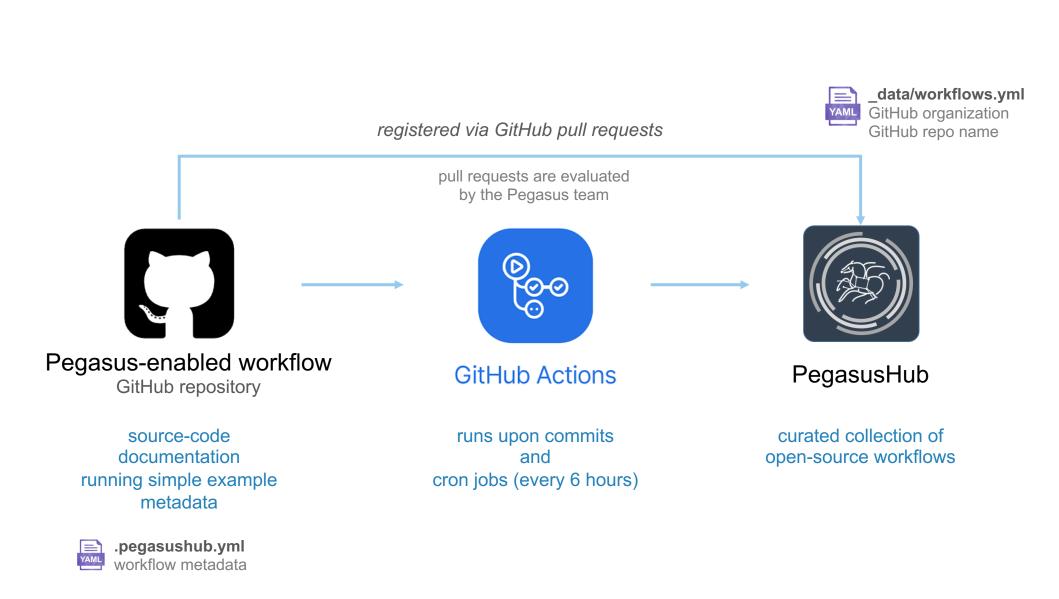
Collection of metadata maintained by the

workflow developer

- workflow releases
- dependencies
- license
- example usage

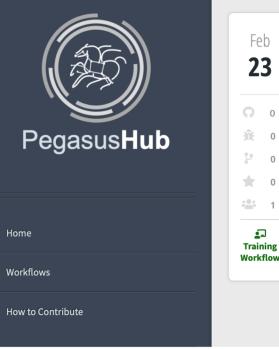
Automated collection of **GitHub metrics** including issues, stargazers, contributors, etc.

5









diamond-workflow

Pegasus Diamond Workflow

°° 0 ★ 0	Latest Release	No release available
······································	Pegasus Version	5.0.0
<u>s</u> .	Dependencies	No dependencies information available
Training Workflow	License	No licence available
	GitHub Repository	https://github.com/pegasus-isi/diamond-workflow
	Торісѕ	diamond-workflow example-workflow





Feb

23

PegasusHub

training workflows



pegasus-init

generates example workflows, ready to be executed on common execution environments





If you are a **current** or **future** Pegasus user, you are invited to contribute to the PegasusHub!

> Start contributing **today** by reaching out to us on **Slack** or via *pegasus@isi.edu*



Thank You!