**Nipype**

**RRID:** SCR_002502  
**Type:** Tool

**Proper Citation**

Nipype (RRID:SCR_002502)

**Resource Information**

**URL:** [http://nipy.org/nipype/](http://nipy.org/nipype/)

**Proper Citation:** Nipype (RRID:SCR_002502)

**Description:** A package for writing fMRI analysis pipelines and interfacing with external analysis packages (SPM, FSL, AFNI). Current neuroimaging software offer users an incredible opportunity to analyze their data in different ways, with different underlying assumptions. However, this has resulted in a heterogeneous collection of specialized applications without transparent interoperability or a uniform operating interface. Nipype, an open-source, community-developed initiative under the umbrella of Nipy, is a Python project that solves these issues by providing a uniform interface to existing neuroimaging software and by facilitating interaction between these packages within a single workflow. Nipype provides an environment that encourages interactive exploration of algorithms from different packages (e.g., SPM, FSL), eases the design of workflows within and between packages, and reduces the learning curve necessary to use different packages. Nipype is creating a collaborative platform for neuroimaging software development in a high-level language and addressing limitations of existing pipeline systems.

**Resource Type:** Resource, software resource, software application

**References:** PMID:21897815

**Keywords:** magnetic resonance, python, workflow, analysis, pipeline, interface, data processing, neuroimaging

**Parent Organization:** Neuroimaging in Python

**Availability:** BSD License
Website Status: Last checked up

Abbreviations: Nipype

Resource Name: Nipype

Resource ID: SCR_002502

Alternate IDs: nlx_155901

Alternate URLs: http://www.nitrc.org/projects/nipype

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Ratings and Alerts

No rating or validation information has been found for Nipype.

No alerts have been found for Nipype.

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Data and Source Information

Source: SciCrunch Registry

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Usage and Citation Metrics

We found 161 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](http://www.nitrc.org/projects/nipype).


Snoek L, et al. (2021) The Amsterdam Open MRI Collection, a set of multimodal MRI datasets for individual difference analyses. Scientific data, 8(1), 85.


Park AT, et al. (2021) Early childhood stress is associated with blunted development of ventral tegmental area functional connectivity. Developmental cognitive neuroscience, 47, 100909.


