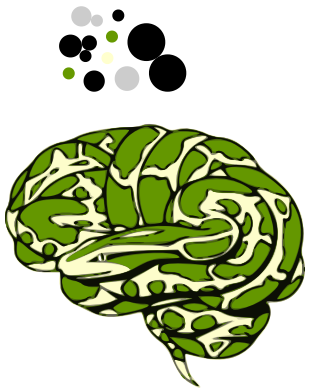
nipy.org



Welcome to NIPY. We are a **community of practice (https://en.wikipedia.org/wiki/Community_of_practice)** devoted to the use of the Python programming language in the analysis of neuroimaging data. You can find us on **github (https://github.com/nipy)**, as well as social media **[blog] (http://neuroimaging.tumblr.com) [twitter] (https://twitter.com/nipyorg)**. We welcome **contributions (/contribute.html)** and ask that you read about our **standards of conduct (/conduct.html)**. You are also invited to **ask for help. (/help.html)**

tumblr.com)

Our community includes the following projects:

Analysis Pipeline Management

(https://github.com/nipy/nipype) (https://nipype.readthedocs.io/en/latest/) nipype (/packages/nipype/index.html) - Provides a uniform interface to existing neuroimaging software.

Computational Anatomy

(https://github.com/dipy/dipy) (http://dipy.org/) dipy (/packages/dipy/index.html) - Focuses on diffusion magnetic resonance imaging (dMRI) analysis.

(https://github.com/nipy/mindboggle) (http://mindboggle.info/) mindboggle (/packages/mindboggle/index.html) - Improves the accuracy, precision, and consistency of labeling & morphometry of brain imaging data.

File I/O and Data Management

(https://github.com/nipy/nibabel) (http://nipy.org/nibabel/) nibabel (/packages/nibabel/index.html) - Read / write common neuroimaging file formats.

(https://github.com/scitran/sdm) (https://scitran.github.io/) Scitran SDM (/packages/sdm/index.html) - Delivers efficient and robust archiving, organization, and sharing of scientific data.

Functional MRI

(https://github.com/nipy) (http://nipy.org/nipy/) Nipy (/packages/nipy/index.html) - Analysis of structural and functional neuroimaging data.

(https://github.com/nipy/nitime) (http://nipy.org/nitime/) Nitime (/packages/nitime/index.html) - Time-series analysis of neuroscience data.

(https://github.com/kdesimone/popeye) (http://kdesimone.github.io/popeye/) popeye (/packages/popeye/index.html) - Population receptive field estimation

Machine Learning

(https://github.com/nilearn/nilearn) (http://nilearn.github.io) Nilearn (/packages/nilearn/index.html) - Fast and easy statistical learning on neuroimaging data.

(https://github.com/PyMVPA/PyMVPA) (http://www.pymvpa.org/) PyMVPA (/packages/pymvpa/index.html) - Eases statistical learning analyses of large neuroimaging datasets.

Human Electrophysiology

(https://github.com/mne-tools/mne-python) (http://martinos.org/mne/stable/index.html) MNE (/packages/mne/index.html) - Processes magnetoencephalography (MEG) and electroencephalography (EEG) data.

Data Visualisation

(https://github.com/nipy/napari-nibabel) (https://github.com/nipy/napari-nibabel/blob/main/README.md) napari-nibabel (/packages/napari-nibabel/index.html) - A plugin for the napari image viewer to view and annotate neuroimaging data

(https://github.com/nipy/niwidgets) (http://www.nipy.org/niwidgets/) niwidgets (/packages/niwidgets/index.html) - Provides interactive plots for volumetric images.

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