fmriprep

Package Info

Key	Value
App version	22.0
XNAT wrapper version	1
Base image	`nipreps/fmriprep:22.0.0`
Info URL	https://fmriprep.org

Required licenses

Source file	Mounted at	Info
`freesurfer.txt`	`/opt/freesurfer/license.`	

Commands

fmriprep

`fMRIPrep` is a functional magnetic resonance imaging (fMRI) data preprocessing pipeline that is designed to provide an easily accessible, state-of-the-art interface that is robust to variations in scan acquisition protocols and that requires minimal user input, while providing easily interpretable and comprehensive error and output reporting. It performs basic processing steps (coregistration, normalization, unwarping, noise component extraction, segmentation, skullstripping etc.) providing outputs that can be easily submitted to a variety of group level analyses, including task-based or resting-state fMRI, graph theory measures, surface or volume-based statistics, etc. Optional flags that can be provided to the `fmriprep_flags` parameter: [–anat-only] [–boilerplate_only] [–md-only-boilerplate] [–error-on-aroma-warnings] [-v] [–ignore {fieldmaps,slicetiming,sbref,t2w,flair} [{fieldmaps,slicetiming,sbref,t2w,flair} ...]] [–output-spaces [OUTPUT_SPACES [OUTPUT_SPACES ...]]] [–me-output-echos] [–bold2t1w-init {register,header}] [–bold2t1w-dof {6,9,12}] [–force-bbr] [–force-no-bbr] [–medial-surface-nan] [–slice-time-ref SLICE_TIME_REF] [–random-seed _RANDOM_SEED] [–use-aroma] [–aroma-melodic-dimensionality AROMA_MELODIC_DIM] [–return-all-components] [–fd-spike-threshold REGRESSORS_FD_TH] [–dvars-spike-threshold REGRESSORS_DVARS_TH] [–skull-strip-template SKULL_STRIP_TEMPLATE] [–skull-strip-fixed-seed] [–skull-strip-t1w {auto,skip,force}] [–fmap-bspline] [–fmap-no-demean] [–topup-max-vols TOPUP_MAX_VOLS] [–use-syn-sdc [{warn,error}]] [–force-syn] [–no-submm-recon] [–cifti-output [{91k,170k}] | –fs-no-reconall] [–resource-monitor] [–reports-only] [–config-file FILE] [–write-graph] [–stop-on-first-crash] [–notrack] [–debug {compcor,fieldmaps,all} [{compcor,fieldmaps,all} ...]] [–sloppy]

Key	Value
Short description	fMRIPrep: a functional fMRI data preprocessing pipeline
Workflow	`arcana.tasks.bids:bids_app`
Version	

Key	Value
Executable	`/opt/conda/bin/fmriprep`
Operates on	Session

Inputs

Path	Input format	Stored format	Description
`T1w`	`medimage:NiftiGzX`	`medimage:Dicom`	T1-weighted anatomical scan
`T2w`	`medimage:NiftiGzX`	`medimage:Dicom`	T2-weighted anatomical scan
`fMRI`	`medimage:NiftiGzX`	`medimage:Dicom`	functional MRI
`fmap2_echo1_mag`	`medimage:NiftiGzX`	`medimage:Dicom`	Field map - BIDS Case 2: magnitude of first echo
`fmap2_echo1_phase`	`medimage:NiftiGzX`	`medimage:Dicom`	Field map - BIDS Case 2: phase of first echo
`fmap2_echo2_mag`	`medimage:NiftiGzX`	`medimage:Dicom`	Field map - BIDS Case 2: magnitude of second echo
`fmap2_echo2_phase`	`medimage:NiftiGzX`	`medimage:Dicom`	Field map - BIDS Case 2: phase of second echo

Outputs

Name	Output format	Stored format	Description
`fmriprep`	`common:Directory`	`format`	

Parameters

Name	Data type
`fmriprep_flags`	`string`
`json_edits`	`string`

Last modified August 2, 2022: deploy: 74fe5e05f06d58aa076c7bca8e2b7efaa016aa8e (4e4bae4)