T1-weighted anatomical MRI

convert DICOM to NIFTI
to3d

FreeSurfer: intensity normalization, skull stripping, anatomical segmentation, cortical surface reconstruction
recon-all

convert to AFNI/SUMA
@SUMA_Make_Spec_FS

co-register B0 image to brain.nii.gz
3dAllineate

DWI data processing

convert B0 image to NIFTI
to3d

convert DICOM to NIFTI
DSI Studio

create .src file
DSI Studio

create reconstruction mask
DSI Studio

load seeds and perform tracking
DSI Studio

reconstruct ODFs
DSI Studio

whole-brain fiber tracking
DSI Studio

quality checks
DSI Studio, Trackvis

fMRI processing and analysis

convert EPI DICOM to NIFTI
to3d

motion correction & co-registration to brain.nii.gz
align_epi_anat.py

map EPI runs to Surface
3dVol2Surf

time-series normalization
3dTstat & 3dcalc

spatial smoothing
SurfSmooth

concatenate EPI runs
3dTcat

run GLM
3dDeconvolve

run group ANOVA
3dANOVA

threshold & correct functional maps
SurfClust

draw & save ROI seeds
SUMA tools

save clusters as ROIs
3dcalc

grow ROIs into WM and project into volume
3dSurf2Vol

align ROIs to DSI space
align_epi_anat.py