

DPABISurf

Info

DPABISurf is designed to make surface-based data analysis require minimum manual operations and almost no programming/scripting experience. We anticipate this open-source toolbox will assist novices and expert users alike and continue to support advancing R-fMRI methodology and its application to clinical translational studies.

DPABISurf is open-source and distributed under GNU/GPL, available with DPABI at <http://www.rfmri.org/dpabi>. It supports Windows 10 Pro, MacOS and Linux operating systems. You can run it with or without MATLAB.

1. With MATLAB.
 1. Please go to <http://www.rfmri.org/dpabi> to download DPABI.
 2. Add with subfolders for DPABI in MATLAB's path setting.
 3. Input 'dpabi' and then follow the instructions of the "Install" Button on DPABISurf.
2. Without MATLAB.
 1. Install Docker.
 2. Terminal:

```
docker pull cgyan/dpabi
```

3. Terminal:

```
docker run -d --rm -v  
/My/FreeSurferLicense/Path/license.txt:/opt/freesurfer/license.txt  
-v /My/Data/Path:/data -p 5925:5925 cgyan/dpabi x11vnc -forever -  
shared -usepw -create -rfbport 5925 &
```

(/My/FreeSurferLicense/Path/license.txt: Where you stored the FreeSurferLicense got from <https://surfer.nmr.mgh.harvard.edu/registration.html>, /My/Data/Path: This is where you stored your data. In Docker, the path is /data).

4. Open VNC Viewer, connect to localhost:5925, the password is 'dpabi'.
5. In the terminal within the VNC Viewer, input "bash", and then input:

```
/opt/DPABI/DPABI_StandAlone/run_DPABI_StandAlone.sh ${MCRPath}
```

Now please enjoy the StandAlone version of DPABISurf with GUI!

References:

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Organizar archivos

```
$ mkdir dpabi
```

```

$ cd dpabi
$ mkdir FunImg
$ for x in ../fmri/smc0*.nii.gz; do n=$(echo ${x} | sed
's/..\./fmri\smc0\(.*\)\s.*\.nii\.gz/\1/' ) a=$(echo ${x} | sed
's/..\./fmri\smc0\(.*\)\s\(.*\)\.nii\.gz/Subject\1\s\2smc\1.nii.gz/'); mkdir
FunImg/Subject${n}; imcp ${x} FunImg/${a}; done
$ mkdir T1Img
$ for x in ../mri/smc0*.nii.gz; do n=$(echo ${x} | sed
's/..\./mri\smc0\(.*\)\s.*\.nii\.gz/\1/' ) a=$(echo ${x} | sed
's/..\./mri\smc0\(.*\)\s\(.*\)\.nii\.gz/Subject\1\s\2smc\1.nii.gz/'); mkdir
T1Img/Subject${n}; imcp ${x} T1Img/${a}; done

```

PUF, esto no funciona bien con nifti, hay que hacerlo desde los dicom a ver que pasa.

```

[osotolongo@detritus dpabi]$ mkdir FunRaw
[osotolongo@detritus dpabi]$ mkdir T1Raw
[osotolongo@detritus dpabi]$ for x in /nas/corachan/facehbi/*; do for y in
${x}/*; do if [[ `dckey -k "SeriesDescription" ${y}/Img00001.dcm 2>&1 | grep
t1_mprage` ]]; then ddir=$(echo ${y} | sed
's/.*/F\(.*\)\Series.*\Subject\1/'); echo ${ddir}; mkdir T1Raw/${ddir}; for
img in ${y}/*; do destd=$(echo ${img} | sed
's/.*/F\(.*\)\Series\(.*\)\Subject\1\s\2_/'); cp ${img}
T1Raw/${destd}; done; fi; done; done
[osotolongo@detritus dpabi]$ for x in /nas/corachan/facehbi/*; do for y in
${x}/*; do if [[ `dckey -k "SeriesDescription" ${y}/Img00001.dcm 2>&1 | grep
ep2d_pace_moco_p2` ]]; then ddir=$(echo ${y} | sed
's/.*/F\(.*\)\Series.*\Subject\1/'); echo ${ddir}; mkdir FunRaw/${ddir}; for
img in ${y}/*; do destd=$(echo ${img} | sed
's/.*/F\(.*\)\Series\(.*\)\Subject\1\s\2_/'); cp ${img}
FunRaw/${destd}; done; fi; done; done

```

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