Little reminder for Narval



sbatch /lustre06/project/6093672/shared_codes/scripts/bashrc/correct_permissions_for_current_user.sh

ctb-sbouix

drwxrws---.

6 byerre

13 sbouix ctb-sbouix 25600 Aug 19 11:15 drwxrws---. drwxr-xr-x. 9369 root 2720768 Sep 9 09:33 root drwx--S---. 3 ahmedrek ctb-sbouix 25600 Sep 8 01:55 ahmedrek drwxr-s---. ctb-sbouix 25600 Aug 9 16:53 'AMP results' 7 sadaf 2 bverre ctb-sbouix 25600 Aug 20 13:57 bverre drwxrws---. drwx--S---. 3 cbricout ctb-sbouix 25600 Aug 1 07:48 cbricout 3 cbricout ctb-sbouix 25600 Jun 25 15:32 data drwxr-s---. drwxrws---. 5 byerre ctb-sbouix 25600 Jul 26 16:41 datasets 33792 Aug 19 16:56 drwxr-s---. 8 ghazal ctb-sbouix ahazal drwx--S---. 2 kavehets ctb-sbouix 25600 Jun 5 15:31 kavehets drwx--S---. 2 sadaf ctb-sbouix 25600 Jun 5 15:31 sadaf drwx--S---. 25600 Jun 5 11:31 2 sbouix ctb-sbouix sbouix

ctb-sbouix

def-sbouix

```
[bverre@narval2 6074560]$ ls -la
                                  total 2957
                                                13 sbouix
                                                            def-sbouix
                                                                         25600 Aug 16 15:53 .
                                  drwxrws---.
                                  drwxr-xr-x. 9369 root
                                                                       2720768 Sep 9 09:33 ...
                                                            root
                                  drwx--S---.
                                                10 ahmedrek def-sbouix
                                                                         25600 Aug 31 19:31 ahmedrek
                                  drwxrws---.
                                                            def-sbouix
                                                                         25600 May 27 14:34 byerre
                                                 5 byerre
                                  drwx--S---.
                                                 4 cbricout def-sbouix
                                                                         25600 Jun 5 18:54 cbricout
                                  drwxrws---.
                                                15 sbouix
                                                            def-sbouix
                                                                         25600 Jun 9 09:23 data
                                  drwx--S---.
                                                 3 ghazal
                                                            def-sbouix
                                                                         25600 Jun 12 18:24 ghazal
                                  drwx--S---.
                                                 2 kavehets def-sbouix
                                                                         25600 Sep 14 2023 kayehets
                                  drwxrws---.
                                                 6 sadaf
                                                            def-sbouix
                                                                         25600 May 7 11:25 sadaf
                                  drwx--S---.
                                                 3 sbouix
                                                            def-sbouix
                                                                         25600 Aug 24 2023 sbouix
                                                 7 byerre
                                                            def-sbouix
                                                                         25600 May 30 14:24 shared codes
                                  drwxrws---.
                                  drwxrws---.
                                                            def-sbouix
                                                                         25600 Jan 18 2024 software
                                                10 byerre
25600 Aug 16 15:55 shared codes
                                                            def-sbouix
                                                 4 ghazal
                                                                         25600 Aug 1 15:11 Unest-result-segmenta
                                  drwxrws---+
```

```
bverre@narval2 6074560]$ diskusage report
                             Description
                                                         Space
                                                                          # of files
                  /home (project byerre)
                                                       11G/50G
                                                                            70k/500k
              /scratch (project byerre)
                                                      146k/20T
                                                                             5/1000k
          /project (project ctb-sbouix)
                                                                         1015k/1500k
                                                    4360G/185T
          /project (project def-sbouix)
                                                                           488k/500k
                                                     3904G/10T
         /nearline (project ctb-sbouix)
                                                    196k/1000G
                                                                              8/5000
         /nearline (project def-sbouix)
                                                    196k/1000G
                                                                              8/5000
```



brainlife.io: a decentralized and open-source cloud platform to support neuroscience research

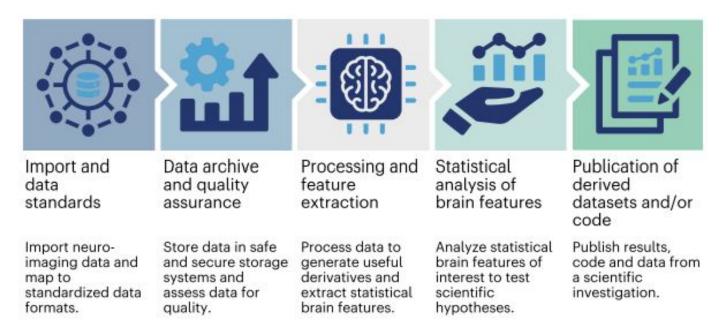
Soichi Hayashi, Bradley A. Caron, Anibal Sólon Heinsfeld, Sophia Vinci-Booher, Brent McPherson, et al.

DOI: 10.1038/s41592-024-02237-2
Review article
Nature Methods
Published: April 2024

https://github.com/brainlife

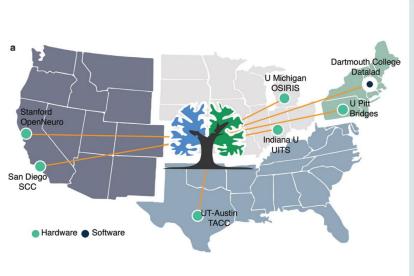
What brainlife.io is made for?

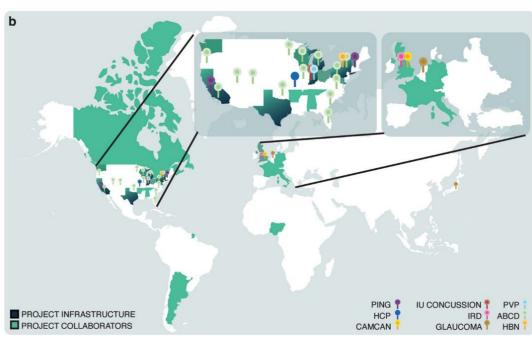
Online and open source platform for:



• Goal: support simplicity, efficiency, transparency and equity in big data neuroscience research

Brainlife.io with critical hubs and critical facets

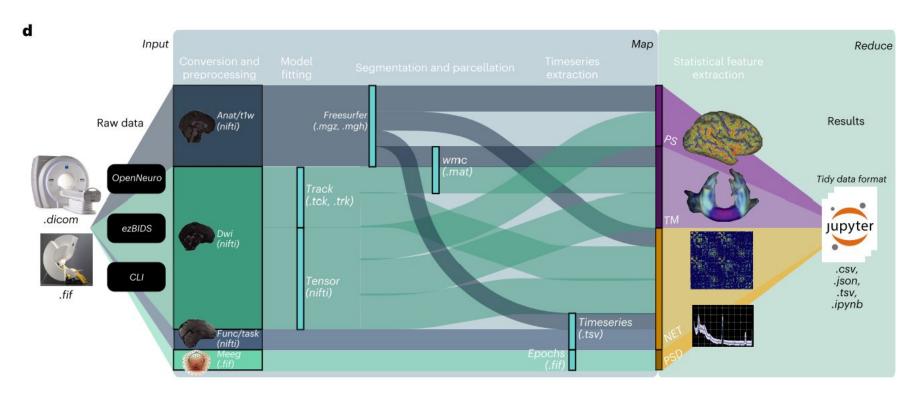




Brainlife.io microservices

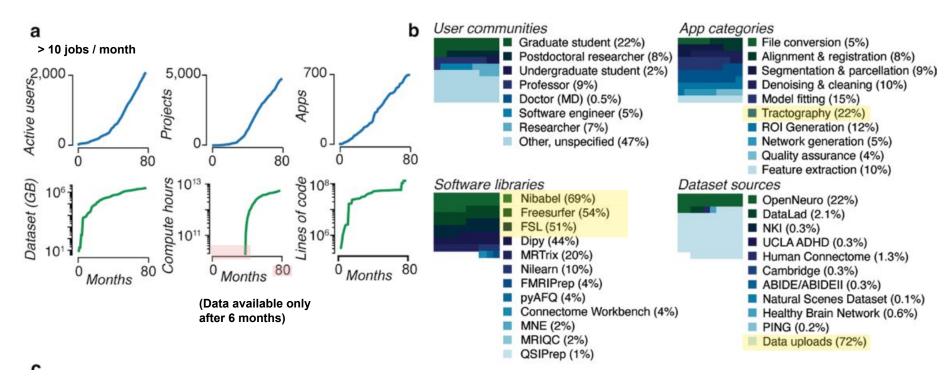
Service	Description GitHub Repos
UI	Platform entrypoint, providing an user interface that integrates the diverse services in Brainlife https://github.com/brainlife/warehouse/tree/master/ui
Warehouse	Data storage and management https://github.com/brainlife/warehouse/
Amaretti	Automated scheduling servicer identifying appropriate compute resources and staging and https://github.com/brainlife/amaretti/ archiving data
ezBIDS	DICOM to BIDS conversion https://github.com/brainlife/ezbids/
Vis	Services available for running visualizations within https://github.com/brainlife/brainlife/tree/master/vis
Event	Event-driven integrator, to provide real-time https://github.com/brainlife/event/
Service Monitoring	Monitors individual actions performed by the site https://github.com/brainlife/servicemonitor
CLI	Command-line interface for performing data https://github.com/brainlife/cli
Auth	Centralized authentication for the multiple Brainlife https://github.com/brainlife/auth

Brainlife.io map and reduction process



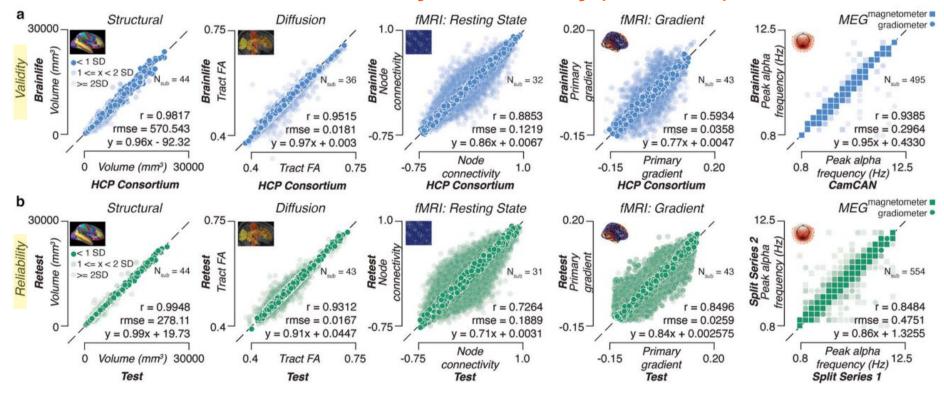
PS = parc-stats datatype; TM = tractmeasures datatype; NET = network datatype; CLI = common line interface

Brainlife.io usage



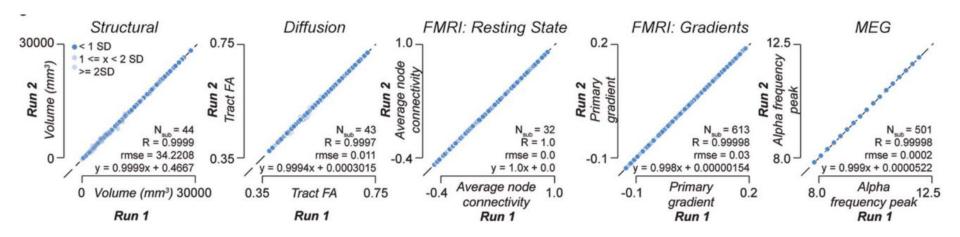
Dipy = diffusion imaging in python using CLI

Brainlife.io validity and reliability (test-retest)



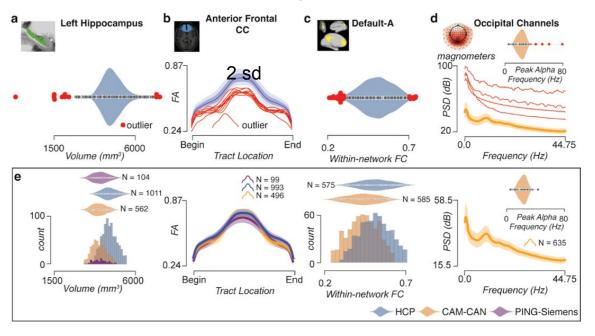
Dark colors represent data within ±1 standard deviation (50% opacity →[1;2] sd; 25% opacity → >2 sd) magnetometer sensors (squares), gradiometer sensors (circles)

Rerun test



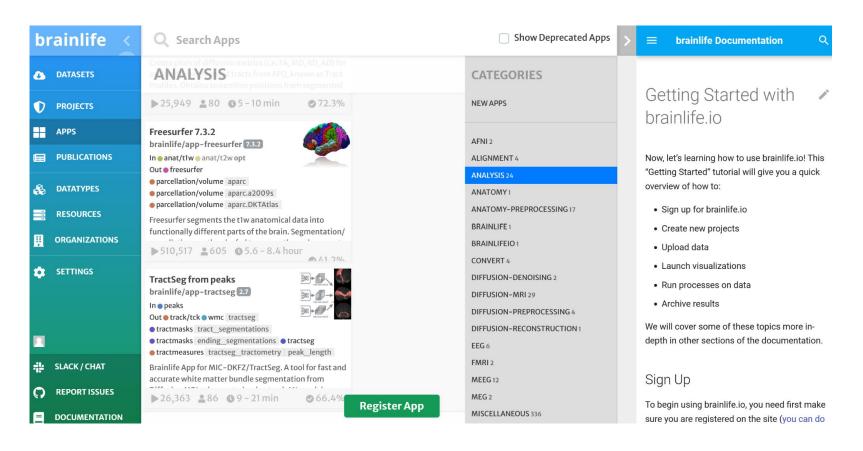
Repeating runs of brainlife.io Apps using the HCP-TR dataset and the CAN dataset.

Quality assurance

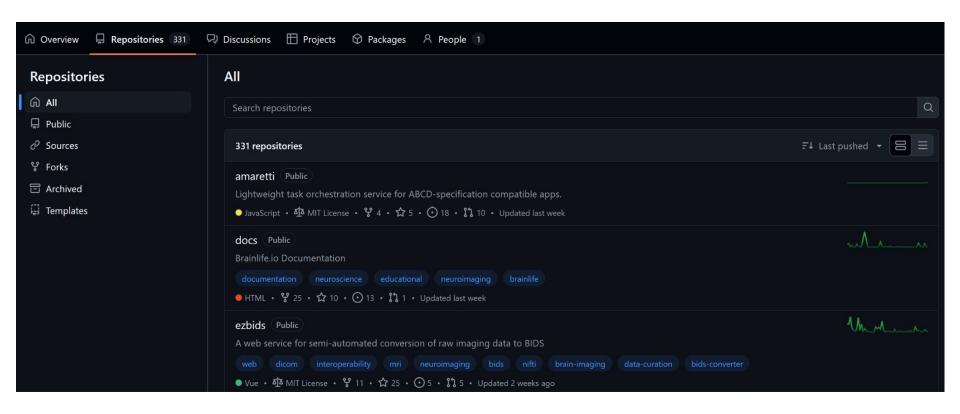


- a. sMRI: Cortical volumes of the left hippocampus,
- b. dMRI: Average fractional anisotropy (FA) profiles,
- c. fMRI-rs: Within-network functional connectivity for the nodes within the Default-A network using the Yeo17 atlas.
- d. MEG: Average PSD (power spectral density) from occipital channels using magnetometer sensors
- e. Previous graphs without outliers (in red)

How does brainlife.io look like?



Updates on the Github of Brainlife?



Thank you for your attention!