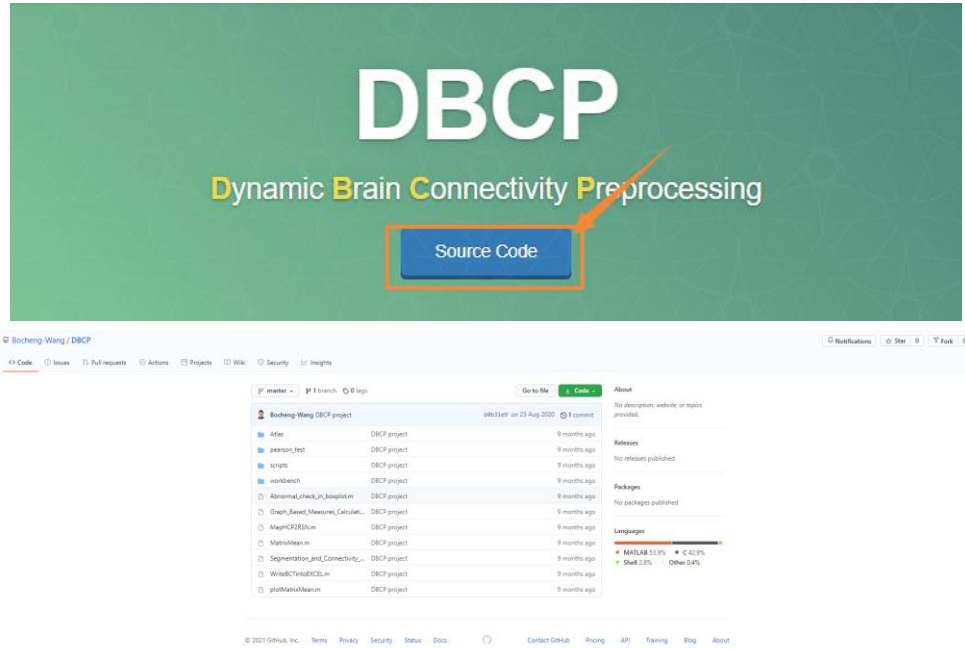


DBCP Documentation

1. In homepage of DBCP project (<http://dbcp.cuz.edu.cn/>), click the 'Source Code' button to view the source code on Github.com.




2. Choose Login in or Registration



3. On the registration page, enter user's name, password, confirmation password, email address, organization, usage, and verification code to complete the registration. The registration request will be automatically sent to backend website manager to confirm.

Registration

UserName:
 Password:
 Confirm Password:
 Email Address:
 Affiliation:
 Usage:
 Verification: 


- Enter the username and password to log in to DBCP

Login

UserName:
 Password:
[Need help?](#)



- DBCP-Online Data preparation page will be displayed

BCP Project HomePage Introduction Member Research & Related Works DBCP-Online Contact Us
Current: 李雷  [Login out](#)

MRI/fMRI Upload ADNI data supported

MPRAGE Structural Data

- Acquisition Plane=SAGITTAL; Acquisition Type=3D; Coil=SEN... length=3.0 tesla; Flip Angle=9.0 degree; Manufacturer=Philips Medical Systems; Matrix X=256.0 pixels; Matrix Y=256.0 pixels; Matrix Z=170.0; Mfg Model=Intera; Pixel Spacing X=1.0 mm; Y=1.0 mm; Pulse Sequence=GR; Slice Thickness=1.2 mm; TE=3.2 ms; TI=0.0 ms; TR=6.8 ms; Weighting=T1;

Resting State fMRI


- Field Strength=3.0 tesla; Flip Angle=80.0 degree; Manufacturer=Philips Medical Systems; Matrix X=64.0 pixels; Matrix Y=64.0 pixels; Mfg Model=Intera; Pixel Spacing X=3.3 mm; Pixel Spacing Y=3.3 mm; Pulse Sequence=GR; Slices=6720.0; Slice Thickness=3.3 mm; TE=30.0 ms; TR=3000.0 ms;

Field Mapping

- Acquisition Plane=AXIAL; Acquisition Type=3D; Coil=SENSE-Head-8; Field Strength=3.0 tesla; Flip Angle=10.0 degree; Manufacturer=Philips Medical Systems; Matrix X=256.0 pixels; Matrix Y=256.0 pixels; Matrix Z=104.0; Mfg Model=Intera; Pixel Spacing X=1.0 mm; Pixel Spacing Y=1.0 mm; Pulse Sequence=GR; Slice Thickness=3.0 mm; TE=4.6 ms; TI=0.0 ms; TR=20.0 ms; Weighting=T2;

Documentation

Preparation

Preprocessing 

Visualization

Topological Analysis

Deep Learning

+ Upload data (DICOM files compressed in *.zip format)
Subject confirmation
Clear

Data Management 李雷 Owned Data, Click to view the detail within each visit

- The interface is mainly divided into three parts: MRI/fMRI Upload, Data Management and Visualization. In the MRI/fMRI Upload section, click "+upload data (DICOM format compressed file, ' *. zip')", and select upload compressed file in the pop-up interface. **The zipped file should be renamed as 'ADNI version' with the subject ID, such as 'ADNI2_010_S_2131.zip'.** Incorrect naming would not be processed in DBCP.

MRI/fMRI Upload ADNI data supported

MPRAGE Structural Data

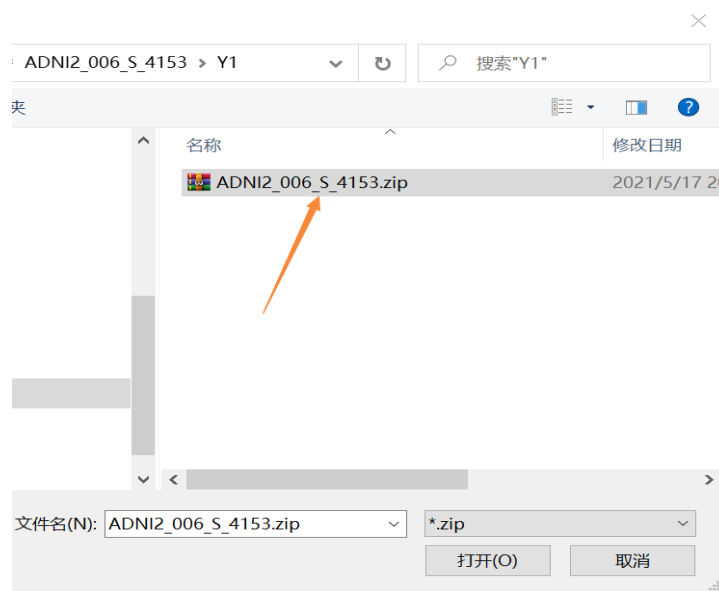
- Acquisition Plane=SAGITTAL; Acquisition Type=3D; Coil=SENSE-Head-8; Field Strength=3.0 tesla; Flip Angle=9.0 degree; Manufacturer=Philips Medical Systems; Matrix X=256.0 pixels; Matrix Y=256.0 pixels; Matrix Z=170.0; Mfg Model=Intera; Pixel Spacing X=1.0 mm; Pixel Spacing Y=1.0 mm; Pulse Sequence=GR; Slice Thickness=1.2 mm; TE=3.2 ms; TI=0.0 ms; TR=6.8 ms; Weighting=T1;

Resting State fMRI

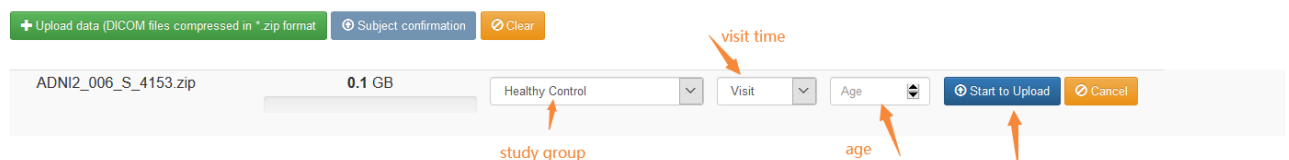
- Field Strength=3.0 tesla; Flip Angle=80.0 degree; Manufacturer=Philips Medical Systems; Matrix X=64.0 pixels; Matrix Y=64.0 pixels; Mfg Model=Intera; Pixel Spacing X=3.3 mm; Pixel Spacing Y=3.3 mm; Pulse Sequence=GR; Slices=6720.0; Slice Thickness=3.3 mm; TE=30.0 ms; TR=3000.0 ms;

Field Mapping

- Acquisition Plane=AXIAL; Acquisition Type=2D; Coil=SENSE-Head-8; Field Strength=3.0 tesla; Flip Angle=10.0 degree; Manufacturer=Philips Medical Systems; Matrix X=256.0 pixels; Matrix Y=256.0 pixels; Matrix Z=104.0; Mfg Model=Intera; Pixel Spacing X=1.0 mm; Pixel Spacing Y=1.0 mm; Pulse Sequence=GR; Slice Thickness=3.0 mm; TE=4.6 ms; TI=0.0 ms; TR=20.0 ms; Weighting=T2;



- For the selected compressed ADNI data, fill in the information of clinical diagnosis, visit time and age, and then click "Start Upload" to upload the data, or click "Cancel" to cancel the upload.



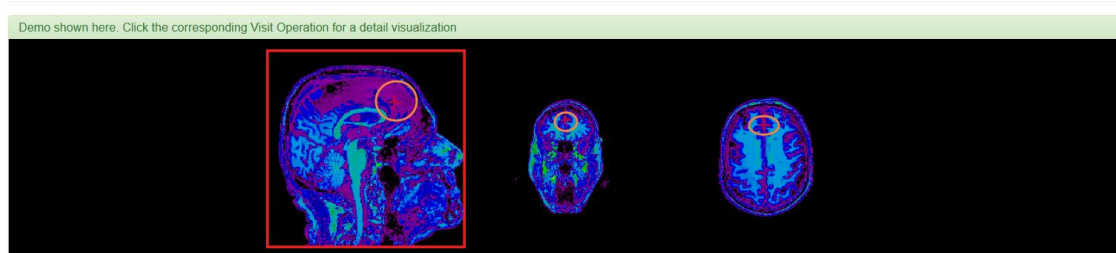
- Check that the compressed file size ranges from tens of Mb to hundreds of Mb, and the upload time is about 10-20 minutes. After the data upload is completed, you can see the relevant information of the uploaded data in the Data Management section. Click the "Modification" button or the "+" on the left side to display the visualization and deletion operations.

Data Store									
Search...									
Subject ID		Sex	Education Years			Career		Operation	
006_S_4153			0					Modification	
Index	Phase	Diagnosis	Visit_age	Visit_time	MMSE	CDR	SubjectID	Operation	
1	SC	AD	79.4	-	0	0	006_S_4153	CIFTIFY	Visualization Delete

显示第 1 到第 1 条记录, 总共 1 条记录

- In the Visualization part, the corresponding side view, back view, and top view of the sample are displayed. The cursor stays on the corresponding sample legend to change the size of the sample. Click one sample icon to change the position of the red cross mark. You can see the change of the position of the corresponding red cross mark in the other two samples. Click the corresponding access operation to view the detailed information.

Visualization Preprocessed by widely accepted procedures such as [Brainbrowser](#), [FreeSurfer](#), [FSL](#), [fMRIPrep](#), [CIFTIFY](#) etc.



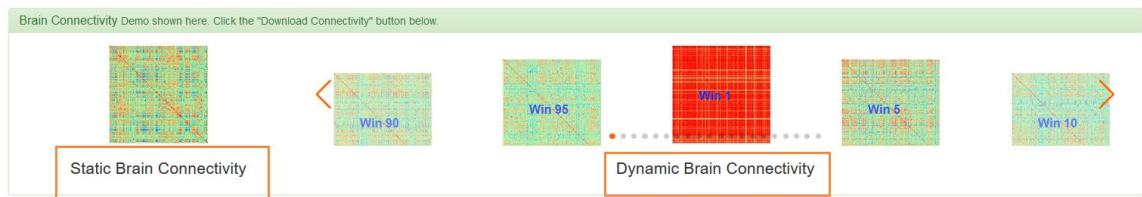
- The Data Preprocessing interface is divided into two parts: Brain Connectivity and Preprocessing Queue.

Data Preprocessing Brain Parcellation under HCP MMP v1.0



Preprocessing Queue										
Search...										
	Index	DataBase	SubjectID	Group	Visit	Diagnosis	Uploader	Uploaded Time	Static	Dynamic
+	1	ADNI2	006_S_4153	AD	SC	AD	李蕾	2021-05-18 16:28:58	Finished	Finished
+	2	ADNI2	002_S_2010	EMCI	M48	EMCI	Aaron08131	2021-05-17 20:47:11	Finished	Finished

- The Brain Connection part shows static brain connectivity and dynamic brain connectivity.



- The Preprocessing Queue part can display relevant information of uploaded data and download progress of static and dynamic brain connection of uploaded data, and the preprocessing time is generally 4-6 hours. Click the Download button to download the brain connectivity data.

Preprocessing Queue

Q search...

Index	DataBase	SubjectID	Group	Visit	Diagnosis	Uploader	Uploaded Time	Static	Dynamic	Connectivity
1	ADNI2	006_S_4153	AD	SC	AD	李雷	2021-05-18 16:28:58	Finished	Finished	Download
2	ADNI2	002_S_2010	EMCI	M48	EMCI	Aaron08131	2021-05-17 20:47:11	Finished	Finished	Download
3	ADNI2	002_S_2010	EMCI	M24	EMCI	Aaron08131	2021-05-17 20:40:37	Finished	Finished	Download
4	ADNI2	002_S_2010	EMCI	M12	EMCI	Aaron08131	2021-05-17 20:25:56	Finished	Finished	Download
5	ADNI2	002_S_2010	EMCI	SC	EMCI	Aaron08131	2021-05-17 20:24:17	Finished	Finished	Download
6	ADNI2	002_S_0298	HC	SC	HC	Test	2021-05-07 10:43:58	Finished	Finished	Download
7	ADNI2	002_S_0297	AD	M24	AD	Test	2021-05-07 10:43:27	Finished	Finished	Download
8	ADNI2	002_S_0297	LMCI	SC	LMCI	Test	2021-05-07 10:43:13	Finished	Finished	Download
9	ADNI2	002_S_0296	EMCI	M03	EMCI	王博迅	2021-04-28 10:33:44	Finished	Finished	Download
10	ADNI2	002_S_0295	LMCI	M60	LMCI	王博迅	2021-04-12 14:35:04	Finished	Finished	Download
11	ADNI2	002_S_0295	AD	M24	AD	牛东亮	2020-11-03 23:39:34	Finished	Finished	Download
12	ADNI2	002_S_0295	LMCI	M12	LMCI	牛东亮	2020-11-03 23:36:29	Finished	Finished	Download
13	ADNI2	002_S_0295	HC	BL	HC	王博迅	2020-10-22 09:41:29	Finished	Finished	Download

显示第 1 到第 13 条记录, 总共 13 条记录, 每页显示 20 条记录

To be continued...