

FreeSurfer Version 7

Building a FreeSurfer

Benzinger Imaging Core Laboratory



<https://surfer.nmr.mgh.harvard.edu/>

Presentation Outline

- 1) FreeSurfer “recon-all” command overview
- 2) Running FreeSurfer via a Docker Container
 - a) Docker container overview
 - b) Running the FS 7 Docker container on a lab machine
 - c) XNAT platform overview
 - d) Running the FS 7 Docker container on the XNAT platform
- 3) XNAT walkthrough
 - a) XNAT user interface
 - b) Launching a container via the XNAT UI

Typical FreeSurfer CLI Build Workflow

- 1) Set environment variables and source the FreeSurfer setup script
- 2) Set the SUBJECTS_DIR variable to point to your output directory
- 3) Run the recon-all command
- 4) Wait for the recon-all process to complete (6 to 8 hours runtime)

recon-all Required Fields

```
recon-all -s <subject_id> -i <absolute_path_to_T1> -all
```

Input flags:

-s

session/subject id. This is what the FreeSurfer folder will be called.

-i

the absolute path to your T1 (nifti or dicom). If dicom, just select one of the dicom files.

-all

run every part of processing stream

Recon-all Additional Input Options

```
recon-all -s <subject_id> -i <absolute_path_to_T1> -all -<options>
```

TONS of different options can be included as input.

Examples can be found at:

<https://surfer.nmr.mgh.harvard.edu/fswiki/OtherUsefulFlags>

Or on the command line:

```
recon-all --help
```

Recon-all example

```
recon-all -s bert -i /myfolder/bert-t1/dicom-file.dcm -all -qcache
```

-qcache

Produces pre-cached files required for *mri_glmfit* allowing rapid analysis of group data. Creates smoothed surface data files sampled to the 'fsaverage' common-space surface.

More details can be found at:

<https://surfer.nmr.mgh.harvard.edu/fswiki/FsTutorial/GroupAnalysis>

Benzinger Lab Note

The Benzinger Lab uses the Freesurfer recon-all command line method only for *advanced customization of processing*.

For our *standard data processing* workflow, we are using a **Docker container** with the Freesurfer program installed in it. This allows the recon-all program to run consistently regardless of which system it is run on.

Running FreeSurfer using a Docker Container

What is a Docker container?

- Similar to a virtual machine setup but much more lightweight/faster
- Includes program code and all its dependencies
- Ensures that an application runs reliably across computing environments
- Standalone, executable package of software:
 - Operating system
 - System tools and system libraries
 - Configuration variables and settings
 - Program code
- Typically each software (FS, PUP, dcm2niix, etc.) will have its own container

<https://www.docker.com/resources/what-container>

Reliability of containers

- Values and output produced by some imaging software can differ based on factors like computer hardware and operating systems
 - FreeSurfer group recommends running all processing on the same system
 - Challenging for large long-term studies like ours
- Containers circumvent this issue
 - Containerized software will always run consistently - identical output
 - Isolated from the computing environment
 - Not affected by base computer hardware, operating system, installed programs, or network infrastructure
 - Simulates running processing on the same system even though we will be using many different machines

Docker container for Freesurfer 7.1.1

- We will be using our Freesurfer 7.1.1 Docker container for processing standardized study data
 - “offline”/“locally” (on computers we have in the lab)
 - “online” (in the cloud using a platform called [XNAT](#))
- Specific Linux computers in the lab have the container installed and it is easy to install locally
- Newer XNAT systems that we will use will be configured to have our FreeSurfer container available

Running the FS 7 container locally

- Our lab Linux machines will have Docker Engine and our Freesurfer container installed so you can run it from the command line.
- Running the full container command is complicated, so we provide a shortcut that is runnable once you have the FreeSurfer environment variables and program set up.

```
FS711DockerLaunch bert /myfolder/bert-t1/dicom-file.dcm -all -qcache
```

Running FS 7 on XNAT: XNAT Overview



- What is XNAT?
 - An open source imaging informatics platform
 - Originally developed at WUSTL
 - Web-based – runs in a web browser
- XNAT Functionality:
 - Importing data from scanners
 - Archiving/saving data into the database (scan images, text or number-based data)
 - Secure sharing of imaging and related study data
 - Data processing capabilities (such as Docker containers)

Running FS 7 on XNAT: Accessing XNATs

- How to access our lab's XNAT sites?
 - Find out which XNAT site you need to process data on and go to its URL in your web browser.
- **CNDA**: <https://cnda.wustl.edu>
 - Used by many groups at Wash U
- **FORNIX**: <https://fornix.wustl.edu>
 - Newer, mostly Benzinger Lab projects
- Others are sometimes used but these are the main ones.



Running FS 7 on XNAT: Workflow

- Access a “MR Session Page”
- Select FreeSurfer 7 in the “Run Containers” menu
 - Request that it be enabled if it isn’t there
- Select the T1 scan ID and file format to use
- Container runs on the XNAT server
- Output gets uploaded to XNAT and you receive a success email
- View newly generated Freesurfer output page and download output data for QC.

XNAT and XNAT FreeSurfer Container Demo

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The XNAT Home Page



FORNIX currently contains 9 projects, 2178 subjects, and 6128 imaging sessions.

Projects	Subjects	MR	PET	CT
<div> <div>ID:</div> <div><input type="text"/></div> </div> <div> <div>Title:</div> <div><input type="text"/></div> </div> <div> <div>Description:</div> <div><input type="text"/></div> </div> <div> <div>Keywords:</div> <div><input type="text"/></div> </div> <div> <div>Investigator:</div> <div>(SELECT) <input type="text"/></div> </div> <div> <div>Submit</div> </div>				

Projects
FreeSurfer_Training_01 Project ID: FS_Training01 PI: Tammie Benzinger This project contains MR sessions used for training personnel on the usage of FreeSurfer. Only one student at a time will be assigned to this project. The su ... You are an owner for this project.
Container Test Data Project ID: ContainerTesting This project contains anonymized data for testing containers. You are an owner for this project.
DIAN Validation Dataset Project ID: DIANV_2019 Anonymized dataset for validation and testing of Docker containers. You are an owner for this project.
Racial Disparities in AD Project ID: RacialDisparitiesAD PI: Chengjie Xiong This project will assemble the largest biomarker cohort of African Americans for Alzheimer disease (AD) in comparison to Caucasians. It will use existing bio ... You are an owner for this project.
Brain Tumor MET Project ID: BrainTumorMET PI: Tammie Benzinger Brain Tumor MET project You are an owner for this project.
Harvard Aging Brain Study Project ID: HABS Data from the Harvard Aging Brain Study. This dataset was originally received from a data

Recent Data Activity
<div>Container...</div> <div>MR</div> <div>TestSubject004_mr</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s126004_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s124242_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s109459_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s101066_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s126022_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s125840_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s125800_2...</div>
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<div>RacialDis...</div> <div>MR</div> <div>upenn_s125675_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s125564_2...</div>
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<div>RacialDis...</div> <div>MR</div> <div>upenn_s125041_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s124972_2...</div>
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<div>RacialDis...</div> <div>MR</div> <div>upenn_s124775_2...</div>
<div>RacialDis...</div> <div>MR</div> <div>upenn_s124738_2...</div>



Browse

New

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RacialDis...	MR	upenn_s124738_2...

The XNAT Home Page



FORNIX currently contains 9 projects, 2178 subjects, and 6128 images.

Projects

Subjects

MR

PET

CT

ID:

Title:

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Investigator:

(SELECT)

Submit

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Search for a specific project name, scan session, or subject/participant

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The XNAT Home Page



Fornix currently contains 9 projects, 2178 subjects, and 6128 imaging sessions.

[Projects](#) [Subjects](#) [MR](#) [PET](#) [CT](#)

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Snapshot of
recent data
processing
updates



[Browse](#)Click on Browse
dropdown menuBrowsing for
Projects

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Projects	Subjects	MR	PET	CT
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(SELECT) ▼

Submit

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RacialDis...	MR	upenn_s124775_2...
RacialDis...	MR	upenn_s124738_2...

Browsing for Projects

Click on "My Projects"

FOR 178 subjects, and 6128 imaging sessions.

Projects Subjects MR PET CT

ID:

Title:

Description:

Keywords:

Investigator: (SELECT)

Submit

Projects

[FreeSurfer_Training_01](#)
Project ID: FS_Training01 PI: Tammie Benzinger
 This project contains MR sessions used for training personnel on the usage of FreeSurfer. Only one student at a time will be assigned to this project. The su ...
 You are an **owner** for this project.

[Container Test Data](#)
Project ID: ContainerTesting
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[DIAN Validation Dataset](#)
Project ID: DIANV_2019
 Anonymized dataset for validation and testing of Docker containers.
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[Racial Disparities in AD](#)
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[Brain Tumor MET](#)
Project ID: BrainTumorMET PI: Tammie Benzinger
 Brain Tumor MET project
 You are an **owner** for this project.

[Harvard Aging Brain Study](#)
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Recent Data Activity

Container...	MR	TestSubject004_mr
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RacialDis...	MR	upenn_s124775_2...
RacialDis...	MR	upenn_s124738_2...



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Browsing for Projects

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Data ▾

Filter by Running Title

Filter by Project Name

Filter by Investigator

ADNI1

Alzheimers Disease Neuroimaging Initiative (ADNI) 1

Manu Goyal

AIBL

Australian Imaging, Biomarkers and Lifestyle (AIBL)

Manu Goyal

AIRC_Rater1

AIRC_Rater1

Tammie Benzinger

Brain Tumor MET

Brain Tumor MET

Tammie Benzinger

Container Test Data

Container Test Data

-

DIAN Validation Dataset

DIAN Validation Dataset

-

FreeSurfer_Training_01

FreeSurfer_Training_01

Tammie Benzinger

FreeSurfer_Training_02

FreeSurfer_Training_02

Tammie Benzinger

FreeSurfer_Training_03

FreeSurfer_Training_03

Tammie Benzinger

FreeSurfer_Training_04

FreeSurfer_Training_04

Tammie Benzinger

FreeSurfer_Training_05

FreeSurfer_Training_05

Tammie Benzinger

FreeSurfer_Training_06

FreeSurfer_Training_06

Tammie Benzinger

FreeSurfer_Training_07

FreeSurfer_Training_07

Tammie Benzinger

FreeSurfer_Training_08

FreeSurfer_Training_08

Tammie Benzinger

FreeSurfer_Training_09

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Tammie Benzinger

FreeSurfer_Training_10

FreeSurfer_Training_10

Tammie Benzinger

FreeSurfer_Training_11

FreeSurfer_Training_11

Tammie Benzinger

FreeSurfer_Training_12

FreeSurfer_Training_12

Tammie Benzinger

FOR

Projects

Subjects

MR

ID:

Keywords:

Projects

[FreeSurfer_Training_01](#)

Project ID: FS_Training01 PI: Tammie Benzinger
This project contains MR sessions used for training.
Only one student at a time will be assigned to this project.
You are an owner for this project.

[Container Test Data](#)

Project ID: ContainerTestData PI: Tammie Benzinger
This project contains data for container testing.
You are an owner for this project.

[DIAN Validation Dataset](#)

Project ID: DIANV_2 PI: Tammie Benzinger
Anonymized dataset from the DIAN Validation Dataset.
You are an owner for this project.

[Racial Disparities in AD](#)

Project ID: RacialDisparitiesAD PI: Chao Chen
This project will assemble the largest brain imaging dataset of African American individuals with Alzheimer's disease (AD) in comparison to Caucasians.
You are an owner for this project.

[Brain Tumor MET](#)

Project ID: BrainTumorMET PI: Tammie Benzinger
Brain Tumor MET project
You are an owner for this project.

[Harvard Aging Brain Study](#)

Project ID: HABS

Data from the Harvard Aging Brain Study. This dataset was originally received from a data

Find your project in the list of projects you have access to and click the project name



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Search



The XNAT Project Page

FreeSurfer_Training_01

Details

Access

Manage

Pipelines

ID: FS_Training01

Description: This project contains MR sessions used for training personnel on the usage of FreeSurfer. Only one student at a time will be assigned to this project. The successful student will have performed FreeSurfer quality control on all sessions and will have edited any and all FreeSurfers requiring reprocessing in order to become FreeSurfer certified at Washington University. Data may be downloaded at any time from this project by Imaging Core staff for training quality assurance purposes.

Keywords: FreeSurfer Training FS Course Workshop

PI: Benzinger, Tammie

Edit Details

Delete

Manage Custom Variables

Actions

Add

Add to Favorites

Download XML

Download Images

Event Service

Manage Files

Upload Images

Project Settings

Scan Type Cleanup

View Prearchive

Subjects

Add Tab ▾

<<

< prev

next >

>>

<< first < prev 1 next > last >>

200 ▾

1 of 1 Pgs (47 Rows)

Reload

Options ▾

Subject	M/F	Hand	YOB	MR Sessions
P010001	U			1
P010002	U			1
P010003	U			1
P010004	U			2
P010005	U			1
P010006	U			1
P010007	U			1
P010008	U			1
P010009	U			1
P020001	U			1
P020002	U			1
P020003	U			1
P020004	U			1
P020005	U			1
P020006	U			1
P020007	U			1



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The XNAT Project Page

FreeSurfer_Training_01

Details

Access

Manage

Pipelines

ID: FS_Training01

Description: This project contains MR sessions used for training personnel on the usage of FreeSurfer. Only one student at a time will be assigned to this project. The successful student will have performed FreeSurfer quality control on all sessions and will have edited any and all FreeSurfers requiring reprocessing in order to become FreeSurfer certified at Washington University. Data may be downloaded at any time from this project by Imaging Core staff for training quality assurance purposes.

Keywords: FreeSurfer Training FS Course Workshop

PI: Benzinger, Tammie

Edit Details

Delete

Manage Custom Variables

Actions

Add

Add to Favorites

Download XML

Download Images

Event Service

Manage Files

Upload Images

Project Settings

Scan Type Cleanup

View Prearchive

Subjects

Add Tab ▾

<<

< prev

next >

>>

<< first < prev 1 next > last >>

200 ▾

1 of 1 Pgs (47 Rows)

Reload

Options ▾

Subject	M/F	Hand	YOB	MR Sessions
P010001	U			1
P010002	U			1
P010003	U			1
P010004	U			2
P010005	U			1
P010006	U			1
P010007	U			1
P010008	U			1
P010009	U			1
P020001	U			1
P020002	U			1
P020003	U			1
P020004	U			1
P020005	U			1
P020006	U			1
P020007	U			1

List of all subjects in the project.





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Tools ▾

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Search



The XNAT Project Page

FreeSurfer_Training_01

Details

Access

Manage

Pipelines

ID: FS_Training01

Description: This project contains MR sessions used for training personnel on the usage of FreeSurfer. Only one student at a time will be assigned to this project. The successful student will have performed FreeSurfer quality control on all sessions and will have edited any and all FreeSurfers requiring reprocessing in order to become FreeSurfer certified at Washington University. Data may be downloaded at any time from this project by Imaging Core staff for training quality assurance purposes.

Keywords: FreeSurfer Training FS Course Workshop

PI: Benzinger, Tammie

Edit Details

Delete

Manage Custom Variables

Actions

Add

Add to Favorites

Download XML

Download Images

Event Service

Manage Files

Upload Images

Project Settings

Scan Type Cleanup

View Prearchive

Subjects

Add Tab ▾

<< first < prev 1 next > last >>

200 ▾

1 of 1 Pgs (47 Rows)

Reload

Options ▾

Subject	M/F	Hand	YOB	MR Sessions
P010001	U			1
P010002	U			1
P010003	U			1
P010004	U			2
P010005	U			1
P010006	U			1
P010007	U			1
P010008	U			1
P010009	U			1
P020001	U			1
P020002	U			1
P020003	U			1
P020004	U			1
P020005	U			1
P020006	U			1
P020007	U			1

Dropdown menu to add additional tabs/tables of project data (e.g. MR sessions, FreeSurfer outputs)



Browse ▾

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Tools ▾

Help ▾

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Search



The XNAT Project Page

FreeSurfer_Training_01

Details

Access

Manage

Pipelines

ID: FS_Training01

Description: This project contains MR sessions used for training personnel on the usage of FreeSurfer. Only one student at a time will be assigned to this project. The successful student will have performed FreeSurfer quality control on all sessions and will have edited any and all FreeSurfers requiring reprocessing in order to become FreeSurfer certified at Washington University. Data may be downloaded at any time from this project by Imaging Core staff for training quality assurance purposes.

Keywords: FreeSurfer Training FS Course Workshop

PI: Benzinger, Tammie

Edit Details

Delete

Manage Custom Variables

Actions

Add

Add to Favorites

Download XML

Download Images

Event Service

Manage Files

Upload Images

Project Settings

Scan Type Cleanup

View Prearchive

Subjects

Add Tab ▾

<<

< prev

next >

>>

<< first < prev 1 next > last >>

200 ▾

Reload

Options ▾

Subject	MR Sessions
P010001	1
P010002	1
P010003	1
P010004	2
P010005	1
P010006	1
P010007	1
P010008	1
P010009	1
P020001	1
P020002	1
P020003	1
P020004	1
P020005	1
P020006	1
P020007	1

Click a Subject Label in the subjects table to go to that Subject page



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The XNAT Subject Page

[PROJECT.FS_Training01](#) > [P010001](#)

Subject Details: P010001

Details

Projects

Accession # FORNIX_S02182
Date Added 2021-04-01 11:52:51 (adincer)
Birth year --
Gender
Handedness

Actions

[Edit](#)
[View XML](#)
[Add Experiment](#)
[Download XML](#)
[Email](#)
[Manage Files](#)
[View Images](#)
[Delete](#)
[Upload Images](#)

Experiments

Date ↕	Experiment ↕	Project ↕	Label ↕
	MR Session	FreeSurfer_Training_01	P010001_MR_v01
2021-04-01	Freesurfer	FreeSurfer_Training_01	FORNIX_E06138_freesurfer_20210401235140

The XNAT Subject Page

[PROJECT.FS_Training01](#) > [P010001](#)

breadcrumb trail (user's location in a website)

Subject Details: P010001

Details

Projects

Accession # F0RNIX_S02182
Date Added 2021-04-01 11:52:51 (adincer)
Birth year --
Gender
Handedness

Actions

Edit
View XML
Add Experiment
Download XML
Email
Manage Files
View Images
Delete
Upload Images

Experiments

Date ↕	Experiment ↕	Project ↕	Label ↕
	MR Session	FreeSurfer_Training_01	P010001_MR_v01
2021-04-01	Freesurfer	FreeSurfer_Training_01	F0RNIX_E06138_freesurfer_20210401235140

The XNAT Subject Page

PROJECT: FS_Training01 > P010001

Subject Details: P010001

DetailsProjects

Accession #

FORNIX_S02182

Date Added

2021-04-01 11:52:51 (admin)

Birth year

--

Gender

Handedness

Actions

Manage Files

View Images

Delete

Upload Images

Subject ID or "Accession Number" (This subject's unique ID in XNAT)

Experiments

Date	Experiment	Project	Label
	MR Session	FreeSurfer_Training_01	P010001_MR_v01
2021-04-01	Freesurfer	FreeSurfer_Training_01	FORNIX_E06138_freesurfer_20210401235140

The XNAT Subject Page

[PROJECT.FS_Training01](#) > [P010001](#)

Subject Details: P010001

Details

Projects

Accession # FORNIX_S02182
Date Added 2021-04-01 11:52:51 (adincer)
Birth year --
Gender
Handedness

Actions

Edit
View XML
Add Experiment
Download XML
Email
Manage Files
View Images
Delete
Upload Images

Experiments

Date	Experiment	Project	Label
	MR Session	FreeSurfer_Training_01	P010001_MR_v01
2021-04-01	Freesurfer	FreeSurfer_Training_01	FORNIX_E06138_freesurfer_20210401235140

List of experiments (imaging visits or scan sessions) **AND** the associated processing (e.g. FreeSurfer output) for the subject.

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The XNAT Subject Page

[PROJECT_FS_Training01](#) > [P010001](#)

Subject Details: P010001

Details	Projects	Actions
<p> Accession # FORNIX_S02182 Date Added 2021-04-01 11:52:51 (adincer) Birth year -- Gender Handedness </p>		<p> Edit View XML Add Experiment Download XML Email Manage Files View Images Delete Upload Images </p>

Click on the blue “MR Session” link for a particular MR Session to view the session page.

Experiments			
Date ▾	Experiment ▾	Project ▾	Label ▾
2021-04-01	MR Session	FreeSurfer_Training_01	P010001_MR_v01
	Freesurfer	FreeSurfer_Training_01	FORNIX_E06138_freesurfer_20210401235140

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

DetailsProjects

Accession #:

FORNIX_E06138

Subject:

P010001

Date Added:

2021-04-01 11:52:52 (adincer)

Gender:

Time:

09:16:52

Handedness:

Scanner Name:

Age:

--

Scanner Type:

SIEMENS TrioTim

Actions

Edit

View ▶

Download ▶

Email

Manage Files

View Images

Delete

Run Containers ▶

Scans

Bulk Actions: DownloadRun Container ▾							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

Session or Experiment Page

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

← breadcrumb trail

MR Session: P010001_MR_v01

Details Projects

Accession #: FORNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIEMENS TrioTim

Subject: [P010001](#)

Gender:

Handedness:

Age: --

Actions

Edit

View ▶

Download ▶

Email

Manage Files

View Images

Delete

Run Containers ▶

Scans

Bulk Actions: Download Run Container ▾							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
FreeSurfer			2021-04-01	FreeSurfer_Training_01



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Session or Experiment Page

Session details tab

[PROJECT: FS_Training01](#) >
 [SUBJECT: P010001](#) >
 [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #: FORNIX_E06138 **Subject:** [P010001](#)
Date Added: 2021-04-01 11:52:52 (adincer) **Gender:**
Time: 09:16:52 **Handedness:**
Scanner Name: **Age:** --
Scanner Type: SIEMENS TrioTim

Actions

- Edit
- View ▶
- Download ▶
- Email
- Manage Files
- View Images
- Delete
- Run Containers ▶

Scans

Bulk Actions:

Download

Run Container ▾

<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

Session or Experiment Page

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details

Projects

Accession #: FORNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09

Scanner Name:

Scanner Type: SIE

Subject: P010001

Gender:

Handedness:

Age: --

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

	Scan	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files	

Total: 23.8 MB in 174 files

History

Assessments

Experiment	Name	Label	Date	Project
FreeSurfer			2021-04-01	FreeSurfer_Training_01

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Session or Experiment Page

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details

Projects

Accession #: FORNIX E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIE

Subject: P010001

Gender:

Handedness:

Age: --

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

Series Desc	Usability	Files	Note	Run
t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		

Total: 23.8 MB in 174 files

History

Assessments

Experiment

Name

Label

Date

Project

Freesurfer

2021-04-01

FreeSurfer_Training_01

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Session or Experiment Page

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details

Projects

Accession #: F0RNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIEMENS TrioTim

Subject: P010001

Gender:

Handedness:

Age: --

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

Date and Time: Typically located here, the date and time this scan was done (when the subject was scanned).

May be removed for anonymized data sets such as this one.

Series Desc	Usability	Files	Note	Run
t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		

Assessments

Experiment

Name

Label

Date

Project

Freesurfer

2021-04-01

FreeSurfer_Training_01

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Session or Experiment Page

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

DetailsProjects

Accession #: F0RNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIEMENS TrioTim

Subject: P010001

Gender:

Handedness:

Age: --

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

Scanner Name and Scanner Type: Details about the scanner the imaging was performed on.

Series Desc	Usability	Files	Note	Run
t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		

Total: 23.8 MB in 174 files

History

Assessments

Experiment	Name	Label	Date	Project
FreeSurfer			2021-04-01	FreeSurfer_Training_01

Session or Experiment Page

Logged in as: [adincer](#) | Auto-logout in: 0 : 14 : 47 - [renew](#) | [Logout](#)

[Advanced](#)

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #:

FORNIX_E06138

Date Added:

2021-04-01 11:52:52 (adincer)

Time:

09:16:52

Scanner Name:

Scanner Type:

SIEMENS TrioTim

Subject:

P010001

Gender:

Handedness:

Age:

--

Actions

Edit

View

Download

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Manage Files

View Images

Delete

Run Containers

Scans

Bulk Actions:

Download

Run

☐

Scan

☐

4

Total:

23.8 MB in 174 files

History

Assessments

Experiment

Name

Label

Date

Project

Freesurfer

2021-04-01

FreeSurfer_Training_01

Files

Note

Run

23.8 MB in 174 files

Label of the subject that was scanned in this experiment. More subject details may be located here such as the subject's age at the time of the scan.

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Session or Experiment Page

Logged in as: [adincer](#) | Auto-logout in: 0:14:47 - [renew](#) | [Logout](#)

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Q

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #:

FORNIX_E06138

Subject:

P010001

Date Added:

2021-04-01 11:52:52 (adincer)

Gender:

Time:

09:16:52

Handedness:

Scanner Name:

Age:

--

Scanner Type:

SIEMENS TrioTim

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

"Actions Box"

Edit: Make edits to session page.

Manage Files: View and download scans from session.

View Images: MRI scan viewer (investigation use only)

Run Containers: Process session with containerized software

Scans

Bulk Actions:

Download

Run Container ▾

<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files	

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

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Session or Experiment Page

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details Projects

Accession #: FORNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIEMENS TrioTim

Subject: [P010001](#)

Gender:

Handedness:

Age: --

Actions

Edit

View ▶

Download ▶

Email

Manage Files

View Images

Delete

Run Containers ▶

Scans

Bulk Actions: Download Run Container ▾							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶
Total: 23.8 MB in 174 files							

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

Scan Table/Scan List
List of scans done at this imaging visit.

Session or Experiment Page

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details Projects

Accession #: FORNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIEMENS TrioTim

Subject: [P010001](#)

Gender:

Handedness:

Age: --

Actions

Edit

View ▶

Download ▶

Email

Manage Files

View Images

Delete

Run Containers ▶

Scans

Bulk Actions: Download Run Container ▾							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

⊕ Histor

Scan ID
sometimes called
“series number”

Label ▾	Date ▾	Project ▾
	2021-04-01	FreeSurfer_Training_01

Session or Experiment Page

Scans

Bulk Actions: Download Run Container						
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files	

Total: 23.8 MB in 174 files

History

Assessments

Experiment	Name
Freesurfer	

Scan Type and Scan Series Description
Details on the type of scan sequence that was run

Session or Experiment Page

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #:

FORNIX_E06138

Subject:

P010001

Date Added:

2021-04-01 11:52:52 (adincer)

Gender:

Time:

09:16:52

Handedness:

Scanner Name:

Age:

--

Scanner Type:

SIEMENS TrioTim

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

Scans

Bulk Actions: <div>Download</div> <div>Run Container</div>							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		

Total: 23.8 MB in 174 files

History

Assessments

Experiment	Name	Label	Date	Project
Freesurfer			2021-04-01	FreeSurfer_Training_01

Number of files stored for this scan sequence and the total file size.
Can hover your cursor over it to see file types that are stored.



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Session or Experiment Page

[PROJECT: FS_Training01](#) >
 [SUBJECT: P010001](#) >
 [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #: FORNIX_E06138 **Subject:** [P010001](#)
Date Added: 2021-04-01 11:52:52 (adincer) **Gender:**
Time: 09:16:52 **Handedness:**
Scanner Name: **Age:** --
Scanner Type: SIEMENS TrioTim

Actions

Edit
 View ▸
 Download ▸
 Email
 Manage Files
 View Images
 Delete
 Run Containers ▸

Scans

Bulk Actions:

Download

Run Container ▾

<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▸

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

Run menu to run scan-based containers (e.g. DICOM to NIFTI file type conversion program)

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Session or Experiment Page

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details Projects

Accession #: FORNIX_E06138 **Subject:** [P010001](#)

Date Added: 2021-04-01 11:52:52 (adincer) **Gender:**

Time: 09:16:52 **Handedness:**

Scanner Name: **Age:** --

Scanner Type: SIEMENS TrioTim

Actions

Edit

View ▶

Download ▶

Email

Manage Files

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Delete

Run Containers ▶

Scans

Bulk Actions: Download Run Container ▾							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

History


Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

← List of processing done on this session.

Running Containers on a Session

Logged in as: [adincer](#) | Auto-logout in: 0 : 14 : 47 - [renew](#) | [Logout](#)



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Help ▾

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[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #:

FORNIX_E06138

Subject:

P010001

Date Added:

2021-04-01 11:52:52 (adincer)

Gender:

Time:

09:16:52

Handedness:

Scanner Name:

Age:

--

Scanner Type:

SIEMENS TrioTim

Actions

Edit

View ▶

Download ▶

Email

Manage Files

View Images

Delete

Run Containers ▶

Scans

Bulk Actions:

Download

Run Container ▾

<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

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version 1.8.0, build: 1974

Running Containers on a Session

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details

Projects

Accession #:

FORNIX_E06138

Subject:

P010001

Date Added:

2021-04-01 11:52:52 (adincer)

Gender:

Time:

09:16:52

Handedness:

Scanner Name:

Age:

--

Scanner Type:

SIEMENS TrioTim

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

Scans

Bulk Actions:

Download

Run Container

<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		

Total: 23.8 MB in 174 files

History

Assessments

Experiment	Name	Label	Date	Project
Freesurfer			2021-04-01	FreeSurfer_Training_01

POWERED BY XNAT

version 1.8.0, build: 1974

Go to the Actions Box and click the “Run Containers” menu item at the bottom.

Running Containers on a Session

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details Projects

Accession #: FORNIX_E06138

Date Added: 2021-04-01 11:52:52 (adincer)

Time: 09:16:52

Scanner Name:

Scanner Type: SIEMENS TrioTim

Subject: [P010001](#)

Gender:

Handedness:

Age: --

Actions

Edit

View ▶

Download ▶

Email

Manage Files

View Images

Delete

Run Containers ▶

Run Freesurfer 7.1.1 on a session

Scans

Bulk Actions: Download Run Container ▾							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Note	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		▶

Total: 23.8 MB in 174 files

History

Assessments

Experiment ▾	Name ▾	Label ▾	Date ▾	Project ▾
Freesurfer			2021-04-01	FreeSurfer_Training_01

Running Containers on a Session

[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details

Projects

Accession #:

FORNIX_E06138

Subject:

P010001

Date Added:

2021-04-01 11:52:52 (adincer)

Gender:

Time:

09:16:52

Handedness:

Scanner Name:

Age:

--

Scanner Type:

SIEMENS TrioTim

Actions

Edit

View

Download

Email

Manage Files

View Images

Delete

Run Containers

Run Freesurfer 7.1.1 on a session

Scans

Bulk Actions: Download Run Container							
<input type="checkbox"/>	Scan	Type	Series Desc	Usability	Files	Not	Run
<input type="checkbox"/>	4	t1_mpr_1mm_p2_pos50	t1_mpr_1mm_p2_pos50	usable	23.8 MB in 174 files		

Total: 23.8 MB in 174 files

History

Assessments

Experiment	Name	Label	Date	Project
Freesurfer			2021-04-01	FreeSurfer_Training_01

Click the name of the container you want to run.

If a container is not installed on this project, it will not appear in this list, and you will need to ask a project administrator to add it for you.

Running Containers on a Session

Logged in as: [adincer](#) | Auto-logout in: 0:14:47 - [renew](#) | [Logout](#)

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[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details **Projects** **Actions**

Accession #: FOR
Date Added: 202
Time: 09:1
Scanner Name:
Scanner Type: SIE

Scans

Bulk Actions: [Download](#)

☐ Scan
☐ 4

Total: 23.8 MB in 174 files

History

Assessments

Experiment [Freesurfer](#)

Set Container Launch Values

Please specify settings for this container.

session P010001_MR_v01
session-label P010001_MR_v01
session-id FORNIX_E06138
project-id FS_Training01
scan 4 - t1_mpr_1mm_p2_pos50
scan-id 4
resource DICOM

RECON_ALL_ARGS
Arguments to pass to recon-all

POWERED BY **XNAT**
version 1.8.0, build: 1974

Running Containers on a Session

Logged in as: [adincer](#) | Auto-logout in: 0:14:47 - [renew](#) | [Logout](#)

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[PROJECT: FS_Training01](#) > [SUBJECT: P010001](#) > [P010001_MR_v01](#)

MR Session: P010001_MR_v01

Details **Projects** **Actions**

Accession #: FOR
Date Added: 202
Time: 09:1
Scanner Name:
Scanner Type: SIE

Scans

Bulk Actions: [Download](#)

☐ Scan

☐ 4

Total: 23.8 MB in 174 files

History

Assessments

Experiment [Freesurfer](#)

Set Container Launch Values

Please specify settings for this container.

session P010001_MR_v01
session-label P010001_MR_v01
session-id FORNIX_E06138
project-id FS_Training01

scan 4 - t1_mpr_1mm_p2_pos50
scan-id 4
resource DICOM

RECON_ALL_ARGS
Arguments to pass to recon-all

These fields should all auto-populate based on the scan session you are running the container from.

POWERED BY **XNAT**
version 1.8.0, build: 1974

Running Containers on a Session

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details Projects Actions

Accession #: FOR
Date Added: 2021
Time: 09:11
Scanner Name: SIE
Scanner Type: SIE

Scans

Bulk Actions: Download

☐ Scan

☐ 4

Total: 23.8 MB in 174 files

History

Assessments

Experiment Experiment Name

Freesurfer

Set Container Launch Values

Please specify settings for this container.

session P010001_MR_v01

session-label P010001_MR_v01

session-id FORNIX_E06138

project-id FS_Training01

scan 4 - t1_mpr_1mm_p2_pos50

scan-id 4

resource DICOM

RECON_ALL_ARGS

Arguments to pass to recon-all

Cancel Run Container

POWERED BY XNAT
version 1.8.0, build: 1974

In a session with multiple scans, you will need to choose which scan to run Freesurfer on from a “scan” dropdown menu.

The scan-id field will auto-populate based on what is selected in the dropdown. This session has only one scan so it is chosen automatically.

Running Containers on a Session

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details Projects Actions

Accession #: FOR
Date Added: 2021
Time: 09:11
Scanner Name: SIE
Scanner Type: SIE

Scans

Bulk Actions: Download

☐ Scan

☐ 4

Total: 23.8 MB in 174 files

History

Assessments

Experiment Experiment Name
Freesurfer

Set Container Launch Values

Please specify settings for this container.

session P010001_MR_v01

session-label P010001_MR_v01

session-id FORNIX_E06138

project-id FS_Training01

scan 4 - t1_mpr_1mm_p2_pos50

scan-id 4

resource DICOM

RECON_ALL_ARGS -all -qcache

Arguments to pass to recon-all

Cancel Run Container

POWERED BY XNAT
version 1.8.0, build: 1974

The “resource” here means which file type to use. Most frequently the options will be DICOM or NIFTI. If there is only one resource available, this will be chosen automatically.

If there is an option to choose, you will typically want DICOM unless it is an “enhanced” DICOM formatted file (which typically has only one file in the DICOM folder).

Running Containers on a Session

For “RECON_ALL_ARGS”, enter the arguments you would normally send to the recon-all command if you were running Freesurfer via the command line.

Our standard defaults for launching Freesurfer 7.1.1 are
“-all -qcaché”

For “RECON_ALL_ARGS”, enter the arguments you would normally send to the recon-all command if you were running Freesurfer via the command line.

Our standard defaults for launching Freesurfer 7.1.1 are
“-all -qcaché”

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details Projects Actions

Accession #: FORNIX_E06138
Date Added: 2021-09-10 09:10:00
Time: 09:10:00
Scanner Name: SIE
Scanner Type: SIE

Scans

Bulk Actions: Download

Scan

enter manually and if via

RECON_ALL_ARGS -all -qcache

Arguments to pass to recon-all

Cancel Run Container

POWERED BY XNAT

version 1.8.0, build: 197

Running Containers on a Session

PROJECT: FS_Training01 > SUBJECT: P010001 > P010001_MR_v01

MR Session: P010001_MR_v01

Details Projects Actions

Accession #: FOR
Date Added: 202
Time: 09:1
Scanner Name:
Scanner Type: SIE

Scans

Bulk Actions: Downl

☐ Scan

☐ 4

Total: 23.8 MB in 174 files

7.1.1 on a

Run

▶

Set Container Launch Values

Please specify settings for this container.

session P010001_MR_v01

session-label P010001_MR_v01

session-id FORNIX_E06138

project-id FS_Training01

scan 4 - t1_mpr_1mm_p2_pos50

scan-id 4

resource DICOM

Click "Run Container" when you have chosen scan details and recon-all parameters and are ready to launch the Freesurfer container.

The Container Launch window will close and a workflow ID will be displayed indicating that the container was launched.

Refresh the page will then show the container status.

Run Container

POWERED BY XNAT
version 1.8.0, build: 1974

Running Containers on a Session

When you click “Run Container”, the container will launch and should run for the standard Freesurfer processing time (typically 6-8 hours).

If there is an error and the container fails to complete, you will receive an email with the error log files attached which can help you figure out what went wrong.

If the container completes successfully, you will receive a success email.

Then you can log back in to the XNAT site you are using and access the processing output page, also called the “assessor” page.



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“Assessor” or Processing Output Page

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 [SESSION: P010001_MR_v01](#) >
[FORNIX_E06138_freesurfer_20210401235140](#)

Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

QC Assessor requires validation.

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Regenerate Snapshots

Legacy FS Relaunch

Launch ILP

Run Containers ▶

Freesurfer Analysis

Subcortical Segmentation

Surface Measures

ILP

Input Parameters

ICV	1130754
Left hemi. cortical gray matter vol.	181638
Right hemi. cortical gray matter vol.	184683
Total cortical gray matter vol. (based on surface-stream)	366321
Subcortical gray matter vol.	46372
Total gray matter vol.	504342
Supratentorial vol.	767191
Left hemi. cortical white matter vol.	166716
Right hemi. cortical white matter vol.	169918
Total cortical white matter vol.	336633

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)

“Assessor” or Processing Output Page

Logged in as: [adlincer](#) | [Auto-logout in: 0 : 14 : 21 - renew](#) | [Logout](#)

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breadcrumb trail

Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

QC Assessor requires validation.

View Snapshots

Set QC Status

Actions

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Delete

Regenerate Snapshots


Legacy FS Relaunch

Launch ILP

Run Containers

Freesurfer Analysis

Subcortical Segmentation		Surface Measures		ILP	Input Parameters	
ICV				1130754		
Left hemi. cortical gray matter vol.				181638		
Right hemi. cortical gray matter vol.				184683		
Total cortical gray matter vol. (based on surface-stream)				366321		
Subcortical gray matter vol.				46372		
Total gray matter vol.				504342		
Supratentorial vol.				767191		
Left hemi. cortical white matter vol.				166716		
Right hemi. cortical white matter vol.				169918		
Total cortical white matter vol.				336633		
Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)

 Washington University in St. Louis
SCHOOL OF MEDICINE

FreeSurfer Training
Imaging Core Laboratory

“Assessor” or Processing Output Page

PROJECT: FS_Training01 > SUBJECT: P010001 > SESSION: P010001_MR_v01 > FORNIX_E06138_freesurfer_20210401235140

Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

- Validation
- Details
- Project Sharing

QC Assessor requires validation.

View Snapshots Set QC Status

- Actions
- Edit
 - View
 - Download
 - Email
 - Manage Files
 - Delete
 - Regenerate Snapshots
 - Legacy FS Relaunch
 - Launch ILP
 - Run Containers

Edit the quality control status and notes for this FreeSurfer.

Used to indicate what corrections are needed, what has already been edited, or reason for QC failure.

Right hemi. cortical gray matter vol.	184683
Total cortical gray matter vol. (based on surface-stream)	366321
Subcortical gray matter vol.	46372
Total gray matter vol.	504342
Supratentorial vol.	767191
Left hemi. cortical white matter vol.	166716
Right hemi. cortical white matter vol.	169918
Total cortical white matter vol.	336633

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)



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"Assessor" or Processing Output Page

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

QC Assessor requires validation.

[View Snapshots](#)

[Set QC Status](#)

Actions

Edit

View

Download

Email

Manage Files

Delete

Regenerate Snapshots

Legacy FS Relaunch

Launch ILP

Run Containers

"Actions Box"

Edit: Same link as "Set QC Status"

Manage Files: View and download files from the Freesurfer output.

Run Containers: Run a container based on this existing Freesurfer. Used to relaunch the Freesurfer after editing files to correct errors.

Freesurfer Analysis

Subcortical Segmentation

Surface Measures

ILP

Input Parameters

ICV	1130754
Left hemi. cortical gray matter vol.	181638
Right hemi. cortical gray matter vol.	184683
Total cortical gray matter vol. (based on surface-stream)	366321
Subcortical gray matter vol.	46372
Total gray matter vol.	504342
Supratentorial vol.	767191
Left hemi. cortical white matter vol.	166716
Right hemi. cortical white matter vol.	169918
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Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)



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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

QC Assessor requires validation.

View Snapshots

Get QC Status

Actions

Edit

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Regenerate Snapshots

Legacy FS Relaunch

Launch ILP

Run Containers

Click the Details tab to view which version of Freesurfer this processing output is.

Freesurfer Analysis

Subcortical Segmentation

Surface Measures

ILP

Input Parameters

ICV	1130754
Left hemi. cortical gray matter vol.	181638
Right hemi. cortical gray matter vol.	184683
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Right hemi. cortical white matter vol.	169918
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Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)



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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation Details Project Sharing

MRSession	P010001_MR_v01
Date	2021-04-01
Note	
ID	FORNIX_E06138_freesurfer_20210401235140
Project	FS_Training01
Freesurfer version	freesurfer-linux-centos7_x86_64-7.1.1-20200723-8b40551

Actions

- Edit
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- Delete
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- Launch ILP
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Freesurfer Analysis

Subcortical Segmentation Surface Measures ILP Input Parameters

ICV	1130754
Left hemi. cortical gray matter vol.	181638
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Total cortical gray matter vol. (based on surface-stream)	366321
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Total gray matter vol.	504342
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Left hemi. cortical white matter vol.	166716
Right hemi. cortical white matter vol.	169918
Total cortical white matter vol.	336633

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation Details Project Sharing

MRSession	P010001_MR_v01
Date	2021-04-01
Note	
ID	FORNIX_E06138_freesurfer_20210401235140
Project	FS_Training01
Freesurfer version	freesurfer-linux-centos7_x86_64-7.1.1-20200723-8b40551

Actions

- Edit
- View ▶
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- Email
- Manage Files
- Delete
- Regenerate Snapshots
- Legacy FS Relaunch
- Launch ILP
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FreeSurfer Analysis

This version stamp has the full version number of the Freesurfer software used to generate this output.

freesurfer-linux-centos7_x86_64-7.1.1-20200723-8b40551
= FreeSurfer 7.1.1

Total gray matter vol.				504342			
Supratentorial vol.				767191			
Left hemi. cortical white matter vol.				166716			
Right hemi. cortical white matter vol.				169918			
Total cortical white matter vol.				336633			
Region Name		Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle		4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent		5	left	448	481	41.6942 +-13.5742	67 (11-78)



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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

MR Session	P010001_MR_v01
Date	2021-04-01
Name	
ID	FORNIX_E06138_freesurfer_20210401235140
Hash	57_x86_64-7.1.1-20200723-8b40551

Actions

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From the Details tab, click the Validation tab to go back to the default tab

Freesurfer Analysis

Subcortical Segmentation

Surface Measures

ILP

Input Parameters

ICV	1130754					
Left hemi. cortical gray matter vol.	181638					
Right hemi. cortical gray matter vol.	184683					
Total cortical gray matter vol. (based on surface-stream)	366321					
Subcortical gray matter vol.	46372					
Total gray matter vol.	504342					
Supratentorial vol.	767191					
Left hemi. cortical white matter vol.	166716					
Right hemi. cortical white matter vol.	169918					
Total cortical white matter vol.	336633					
Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)



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 [FORNIX_E06138_freesurfer_20210401235140](#)

Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

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Project Sharing

QC Assessor requires validation.

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Delete

Regenerate Snapshots

Legacy FS Relaunch

Launch ILP

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Freesurfer Analysis

Subcortical Segmentation

Surface Measures

ILP

Input Parameters

ICV	1130754
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Left hemi. cortical white matter vol.	166716
Right hemi. cortical white matter vol.	169918
Total cortical white matter vol.	336633

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)



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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

QC Assessor requires validation.

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Delete

Regenerate Snapshots

Legacy FS Relaunch

Launch ILP

Run Containers ▶

From the Validation tab, click the "Set QC Status" button to set or update the quality control status and notes for this FreeSurfer.

ICV	1130754
Left hemi. cortical gray matter vol.	181638
Right hemi. cortical gray matter vol.	184683
Total cortical gray matter vol. (based on surface-stream)	366321
Subcortical gray matter vol.	46372
Total gray matter vol.	504342
Supratentorial vol.	767191
Left hemi. cortical white matter vol.	166716
Right hemi. cortical white matter vol.	169918
Total cortical white matter vol.	336633

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)



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Setting the Freesurfer QC Status

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[FORNIX_E06138_freesurfer_20210401235140](#)

Freesurfer Details

Primary Project: FreeSurfer_Training_01
 Experiment ID in this project: FORNIX_E06138_freesurfer_20210401235140

FreeSurfer QC

Status	(SELECT) ▾
Date	<input type="text" value="MM/DD/YYYY"/> <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	<input type="text" value="Aylin Dincer"/>

Submit



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Setting the Freesurfer QC Status

[PROJECT:FS_Training01](#) > [SUBJECT: P010001](#) > [SESSION: P010001_MR_v01](#) > [FORNIX_E06138_freesurfer_20210401235140](#)

Freesurfer Details

Primary Project: FreeSurfer_Training_01
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FreeSurfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	<input type="text" value="Aylin Dincer"/>

Freesurfer QC Form



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Setting the Freesurfer QC Status

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Freesurfer Details

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Experiment ID in this project: FORNIX_E06138_freesurfer_20210401235140

FreeSurfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	<input type="text" value="Aylin Dincer"/>

QC Status

Choose from “Passed”, “Passed with edits”, “Failed”, “Failed- needs reprocessing”, or “Quarantined, based on your visual QC.”



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Setting the Freesurfer QC Status

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Freesurfer Details

Primary Project: FreeSurfer_Training_01
Experiment ID in this project: FORNIX_E06138_freesurfer_20210401235140

FreeSurfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	<input type="text" value="Aylin Dincer"/>

QC Date

The date you are doing the QC.
Choose today's date.



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Setting the Freesurfer QC Status

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Freesurfer Details

Primary Project: FreeSurfer_Training_01
Experiment ID in this project: FORNIX_E06138_freesurfer_20210401235140

Free Surfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	Aylin Dincer

QC Method

Write in “Visual inspection” plus your initials.
e.g. “Visual inspection – SK”



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FreeSurfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	<input type="text" value="Aylin Dincer"/>

QC Notes

Enter your QC notes based on your visual determination of the FreeSurfer's errors.

You should also note things like poor scan quality or visual artifacts in the image.

You should also list issues that did not cause the FreeSurfer to fully Fail QC or were not bad enough to require edits, but were still noticeable.



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Free Surfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	<input type="text" value="Aylin Dincer"/>

Validated By

Enter your name. This should populate automatically based on your XNAT profile. Contact an administrator if you wish to change it in the system.



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Free Surfer QC

Status	(SELECT) ▾
Date	MM/DD/YYYY <input type="button" value="select date"/> use today's date
Method	<input type="text"/>
Notes	<div></div>
Validated By	Aylin Dincer

Press Submit when you are ready to save.

You will be returned to the main Freesurfer output page and your saved notes will appear in the Validation tab.



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xnat:mrSessionData.II



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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation

Details

Project Sharing

QC Assessor requires validation.

View Snapshots

Set QC Status

Actions

Edit

View ▶

Download ▶

Email

Manage Files

Delete

Regenerate Snapshots

Legacy FS Relaunch

Launch ILP

Run Containers ▶

Freesurfer Analysis

Subcortical Segmentation

Surface Measures

ILP

Input Parameters

ICV	1130754
Left hemi. cortical gray matter vol.	181638
Right hemi. cortical gray matter vol.	184683
Total cortical gray matter vol. (based on surface-stream)	366321
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Total cortical white matter vol.	336633

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +-12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

[Validation](#)[Details](#)[Project Sharing](#)

QC Assessor requires validation.

[View Snapshots](#)[Set QC Status](#)[Actions](#)[Edit](#)[View](#)[Download](#)[Email](#)[Manage Files](#)[Delete](#)[Regenerate Snapshots](#)[Legacy Relaunch](#)[Launch](#)[Run Commanders](#)

Freesurfer Analysis

[Subcortical Segmentation](#)[Surface Measures](#)[ILP](#)

ICV	113075
Left hemi. cortical gray matter vol.	181638
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Left-Inf-Lat-Vent	5	left	448	481	41.6942 +-13.5742	67 (11-78)

Click “Manage Files” in the Actions Box on the Freesurfer page to view and download the files from Freesurfer processing output that was run via XNAT.

Manage Files from FS Page

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

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File Manager

Resources

DATA

662 files, 339.06 MB

Add Folder

Upload Files


Update File Data

zip ▾

Download

Close

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 ±12.9319	85 (0-85)
Left-Inf-Lat-Vent	5	left	448	481	41.6942 ±13.5742	67 (11-78)

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation Details Project Sharing Actions

File Manager ✕

☐ Resources

☒ DATA 662 files, 339.06 MB 🗑️

Add Folder

Upload Files

Update File Data

zip ▼

Download

Close

Region name	Seg id	Hemisphere	N voxels	Volume	Mean	Range
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File Manager dialog lets you:

Download scan files or
processing output files

Upload files (such as edits of
Freesurfer output)

Delete files (Only if you have
permission)

Manage Files from FS Page

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation Details Project Sharing Actions

File Manager ✕

☐ ☐ Resources

☒ ☐ DATA 662 files, 339.06 MB

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
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Click the plus sign to expand the resource folder labeled "DATA."

Manage Files from FS Page

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

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File Manager

Resources

DATA

662 files, 339.06 MB

P010001_MR_v01

Add Folder

Upload Files


Update File Data

zip ▾

Download

Close

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation Details Project Sharing Actions

File Manager

- Resources
 - DATA 662 files 339.06 MB
 - P010001_MR_v01**

When you need to make an edit, click the folder name under the DATA resource in Manage Files to download a ZIP file of the output in the correct format.

You can then extract the file on the computer system you will do your edits on.

Region Name	Seg Id	Hemisphere	NVoxels	Volume	Mean	Range
Left-Lateral-Ventricle	4	left	7142	7385	24.2919 +/-12.9319	85 (0-85)
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Manage Files from FS Page

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Freesurfer QC Report: FORNIX_E06138_freesurfer_20210401235140

Validation Details Project Sharing Actions

File Manager

Resources

DATA 662 files, 339.06 MB

P010001_MR_v01

Add Folder

Upload Files

Update File Data


zip

Download

Close

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Left-Inf-Lat-Vent	5	left	448	481	41.6942 +/-13.5742	67 (11-78)

Click Close to close the Manage Files dialog and go back to the Freesurfer output page.

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Q&A Time

Any questions?