

# Using the Laplace Module

1. Adding the module to  
Slicer's path

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

# Welcome

**Load DICOM Data** **Load Data**

**Install Slicer Extensions** **Download Sample Data**

**Customize Slicer** **Explore Loaded Data**

Feedback

Share your stories with us and let us know about how 3D Slicer has enabled your research.

We are always interested in improving 3D Slicer, and every submission will be carefully read.

See more at <http://goo.gl/6BvcHm>.

About

Data Probe

Show Zoomed Slice

L  
F  
B

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
>>>
```



Type here to search

5:26 PM  
7/19/2017

File Edit View Help

- DATA
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V

# Welcome

[Load DICOM Data](#)[Load Data](#)[Install Slicer Extensions](#)[Download Sample Data](#)[Customize Slicer](#)[Explore Loaded Data](#)

## Feedback



Share your stories with us and let us know about how 3D Slicer has enabled your research.

We are always interested in improving 3D Slicer, and every submission will be carefully read.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
```

&gt;&gt;&gt;

Steps Recorder - Recording Now

Pause Record Stop Record

Add Comment

?



Type here to search

5:26 PM ENG  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer



# Welcome

Load DICOM Data

Install Slicer Extensions

Customize Slicer

## Feedback



Share your stories with us and let us know about your research.

We are always interested in improving 3D Slicer, and every story helps!

See more at <http://goo.gl/63>

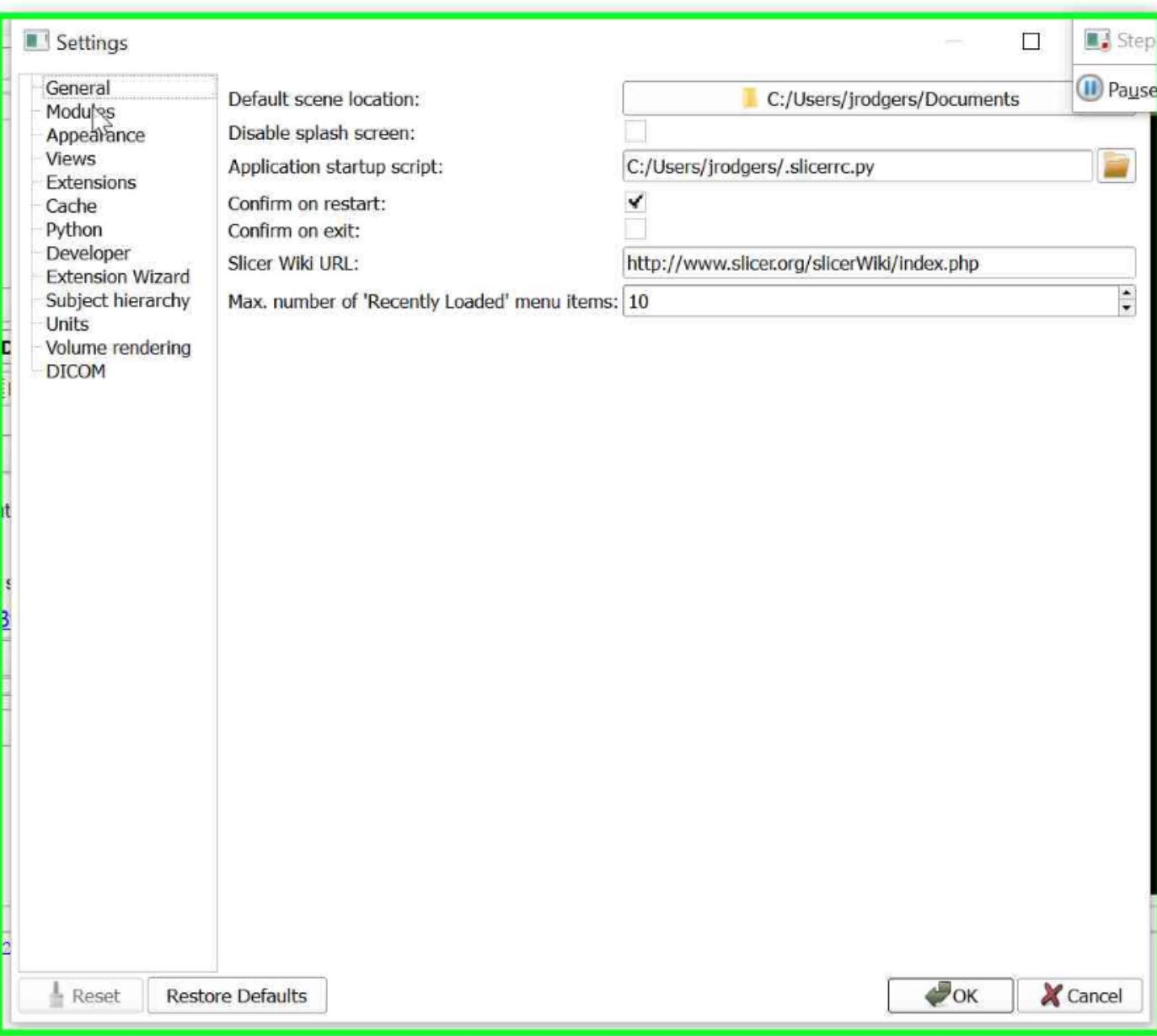
## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12)
>>>
```



Type here to search

5:26 PM ENG  
7/19/2017

File Edit View Help



# Welcome

**Load DICOM Data****Install Slicer Extensions****Customize Slicer****Feedback**

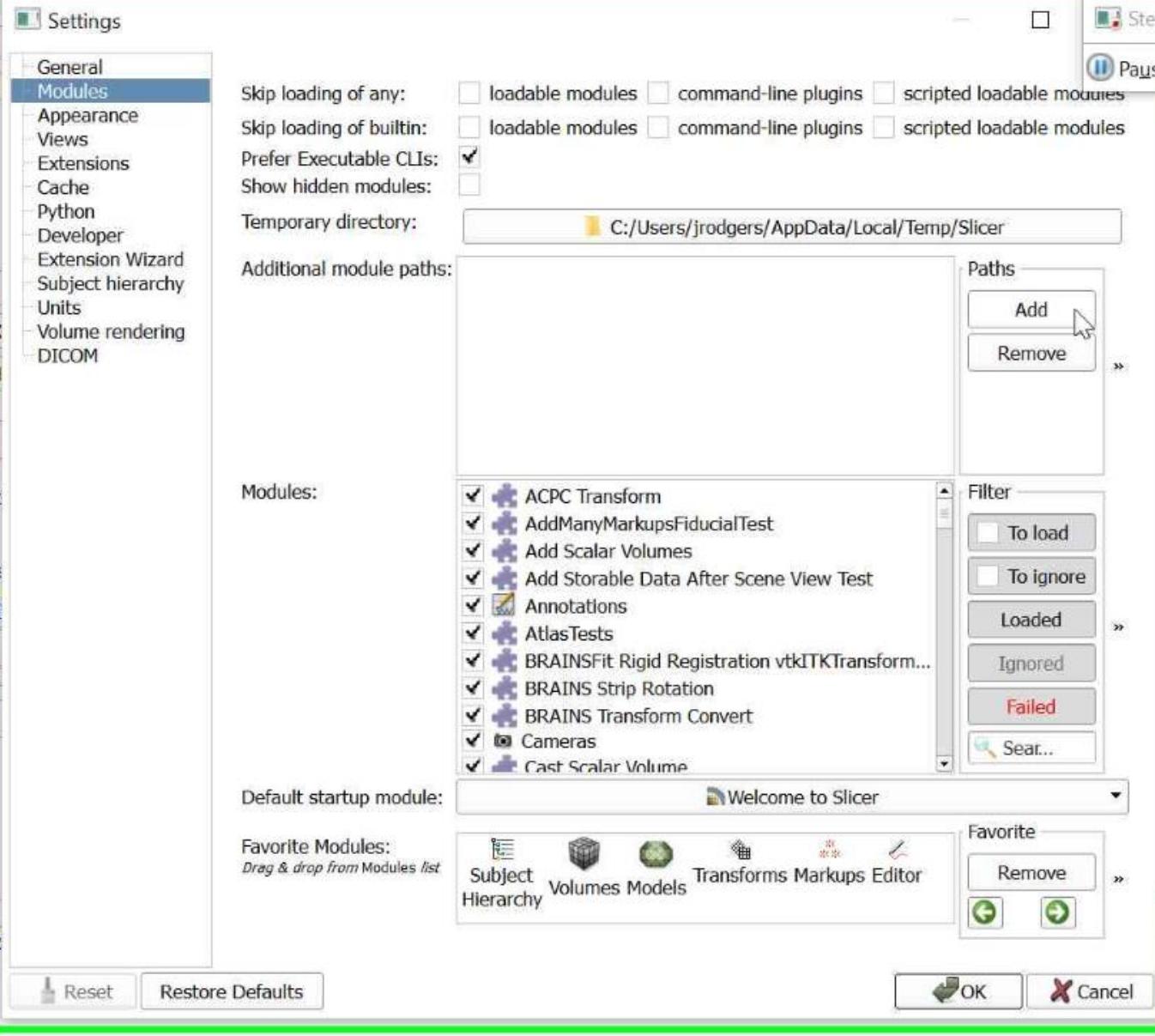
Share your stories with us and let us know about your research.

We are always interested in improving 3D Slicer, and every s

See more at <http://goo.gl/63>**About****Data Probe** Show Zoomed SliceL  
F  
B**Python Interactor**

Python 2.7.13 (default, Jul 18 2017, 23:29:12)

&gt;&gt;&gt;



Type here to search

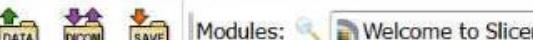


5:26 PM

7/19/2017



File Edit View Help



Modules: Welcome to Slicer



# Welcome

**Load DICOM Data****Install Slicer Extensions****Customize Slicer****Feedback**

Share your stories with us and let us know about research.

We are always interested in improving 3D Slicer, and every s

See more at <http://goo.gl/6B>**About****Data Probe** Show Zoomed SliceL  
F  
B**Python Interactor**

Python 2.7.13 (default, Jul 18 2017, 23:29:12)

&gt;&gt;&gt;

Settings

Select folder

Jessica Rodgers > AppData > Roaming > NA-MIC > Extensions-26156

Organize New folder

Name Date modified Type Size

No items match your search.

Quick access

- Desktop
- Documents
- Downloads
- Pictures
- CVs
- Literature
- Presentations
- TPXwNeedles\_M

Dropbox

OneDrive

This PC

SYSTEM (F:)

Folder:

Select Folder Cancel OK Cancel

Reset Restore Defaults

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

Search Extensions-26156

?



Type here to search

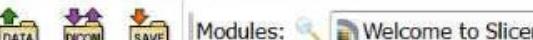


5:26 PM

7/19/2017



File Edit View Help



Modules: Welcome to Slicer



# Welcome

**Load DICOM Data****Install Slicer Extensions****Customize Slicer****Feedback**

Share your stories with us and let us know about research.

We are always interested in improving 3D Slicer, and every s

See more at <http://goo.gl/6B>**About****Data Probe** Show Zoomed SliceL  
F  
B**Python Interactor**

Python 2.7.13 (default, Jul 18 2017, 23:29:12)

&gt;&gt;&gt;

Settings

Select folder

C:\Users\irodgers\AppData\Roaming\NA-MIC\Extensions-26156

Organize New folder

Name Date modified Type Size

No items match your search.

Quick access

- Desktop
- Documents
- Downloads
- Pictures
- CVs
- Literature
- Presentations
- TPXwNeedles\_M

Dropbox

OneDrive

This PC

SYSTEM (F:)

Folder:

Select Folder Cancel

Reset Restore Defaults OK Cancel



Type here to search



5:26 PM

7/19/2017



File Edit View Help



# Welcome

**Load DICOM Data****Install Slicer Extensions****Customize Slicer****Feedback**

Share your stories with us and let us know about research.

We are always interested in improving 3D Slicer, and every s

See more at <http://goo.gl/6B>**About****Data Probe** Show Zoomed SliceL  
F  
B**Python Interactor**

Python 2.7.13 (default, Jul 18 2017, 23:29:12)

&gt;&gt;&gt;

Settings    Steps Recorder - Recording Now

Modules: Welcome to Slicer

Select folder

Jessica Rodgers > Documents > LaplaceModule

Organize New folder

Name	Date modified	Type	Size
No items match your search.			

Quick access

- Desktop
- Documents
- Downloads
- Pictures
- CVs
- Literature
- Presentations
- TPXwNeedles\_M

Dropbox

OneDrive

This PC

SYSTEM (F:)

Folder: LaplaceModule

Select Folder    Cancel

Reset    Restore Defaults    OK    Cancel



Type here to search



ENG

5:26 PM  
7/19/2017

File Edit View Help



# Welcome

**Load DICOM Data****Install Slicer Extensions****Customize Slicer****Feedback**

Share your stories with us and let us know about your research.

We are always interested in improving 3D Slicer, and every s

See more at <http://goo.gl/63>**About****Data Probe** Show Zoomed SliceL  
F  
B**Python Interactor**

Python 2.7.13 (default, Jul 18 2017, 23:29:12)

&gt;&gt;&gt;

**Settings**

**General**

**Modules\***

Skip loading of any:  loadable modules  command-line plugins  scripted loadable modules

Skip loading of builtin:  loadable modules  command-line plugins  scripted loadable modules

Prefer Executable CLIs:

Show hidden modules:

Temporary directory: C:/Users/jrodgers/AppData/Local/Temp/Slicer

Additional module paths: C:/Users/jrodgers/Documents/LaplaceModule

Paths: **Add**, **Remove**

Modules:

- ACPC Transform
- AddManyMarkupsFiducialTest
- Add Scalar Volumes
- Add Storable Data After Scene View Test
- Annotations
- AtlasTests
- BRAINSFit Rigid Registration vtkITKTransform...
- BRAINS Strip Rotation
- BRAINS Transform Convert
- Cameras
- Cast Scalar Volume

Filter: **To load**, **To ignore**, **Loaded**, **Ignored**, **Failed**, **Search...**

Default startup module: Welcome to Slicer

Favorite Modules: Drag & drop from Modules list

Subject Volumes Models Transforms Markups Editor

Hierarchy

Favorite: **Remove**

**Restart required!**  
The application must be restarted to take into account the new values of the following properties:  
Additional module paths

**Reset**, **Restore Defaults**, **OK**, **Cancel**



Type here to search



5:26 PM

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer



# Welcome

**Load DICOM Data****Install Slicer Extensions****Customize Slicer****Feedback**

Share your stories with us and let us know about research.

We are always interested in improving 3D Slicer, and every s

See more at <http://goo.gl/6B>**About****Data Probe** Show Zoomed SliceL  
F  
B**Python Interactor**

Python 2.7.13 (default, Jul 18 2017, 23:29:12)

&gt;&gt;&gt;

**Settings**

**General**

**Modules\***

- Appearance
- Views
- Extensions
- Cache
- Python
- Developer
- Extension Wizard
- Subject hierarchy
- Units
- Volume rendering
- DICOM

Skip loading of any:  loadable modules  command-line plugins  scripted loadable modules

Skip loading of builtin:  loadable modules  command-line plugins  scripted loadable modules

Prefer Executable CLIs:

Show hidden modules:

Temporary directory: C:/Users/jrodgers/AppData/Local/Temp/Slicer

Additional module paths: C:/Users/jrodgers/Documents/LaplaceModule

Paths

Add

Remove

Filter

To load

To ignore

Loaded

Ignored

Failed

Search...

Modules: **Restart required**

For settings to be taken into account, the application must be restarted. Restart the application now ?

Yes No Cancel

Default startup module: Welcome to Slicer

Favorite Modules: Drag & drop from Modules list

Subject Volumes Models Transforms Markups Editor

Hierarchy

Favorite

Remove

Restart required!

The application must be restarted to take into account the new values of the following properties:

Additional module paths

Reset Restore Defaults OK Cancel

## 2. Running the module

File Edit View Help



# Welcome



## Feedback



Share your stories with us and let us know about how 3D Slicer has enabled your research.

We are always interested in improving 3D Slicer, and every submission will be carefully read.

See more at <http://goo.gl/6BvcHm>.

## About

### The Main Window

### Loading and Saving

### Display

### Mouse & Keyboard

## Data Probe

Show Zoomed Slice

L

F

B

You may need to open the Python Interactor for additional functionality but this is not necessary to run the module



Type here to search

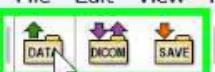


5:26 PM  
7/19/2017

ENG



File Edit View Help



Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

# Welcome

**Load DICOM Data****Load Data****Install Slicer Extensions****Download Sample Data****Customize Slicer****Explore Loaded Data****Feedback**

Share your stories with us and let us know about how 3D Slicer has enabled your research.

We are always interested in improving 3D Slicer, and every submission will be carefully read.

See more at <http://goo.gl/6BvcHm>.**About****Data Probe** Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt; |



Type here to search

5:27 PM ENG  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

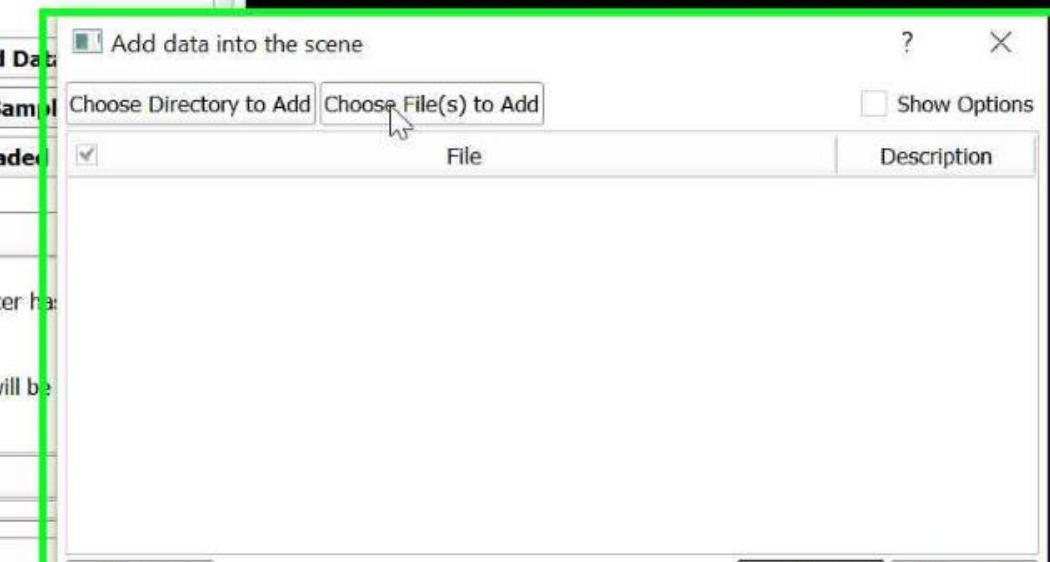
See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

Show Zoomed Slice

L  
F  
B



## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
```

```
>>>
```



Type here to search

5:27 PM ENG  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

Share your stories with us and let us know about how 3D Slicer has helped your research.

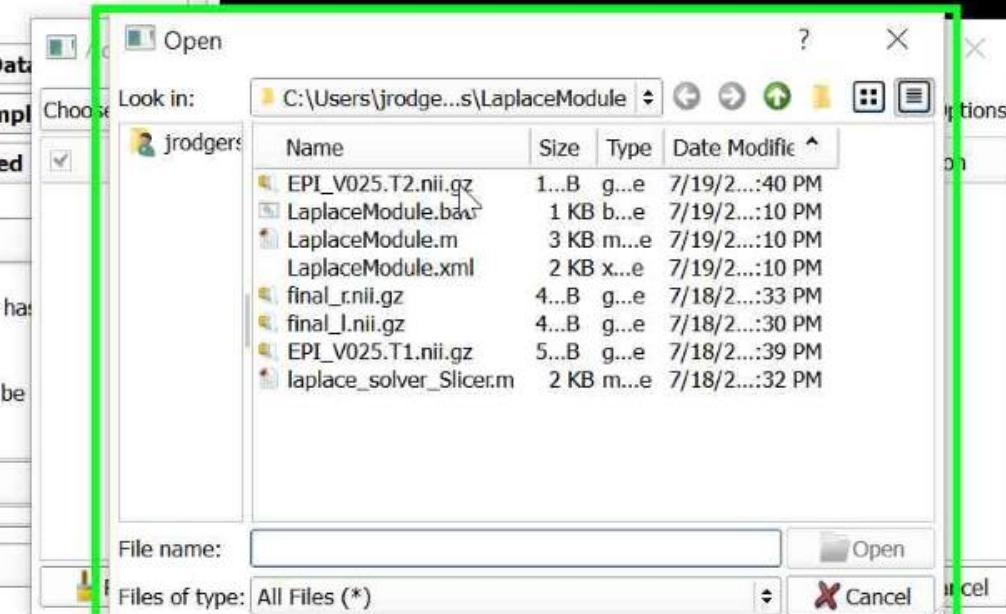
We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

Show Zoomed Slice

L  
F  
B

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
```

&gt;&gt;&gt;



Type here to search



ENG

5:27 PM  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome

Load DICOM Data

Load Data

Install Slicer Extensions

Download Sample

Customize Slicer

Explore Loaded

## Feedback

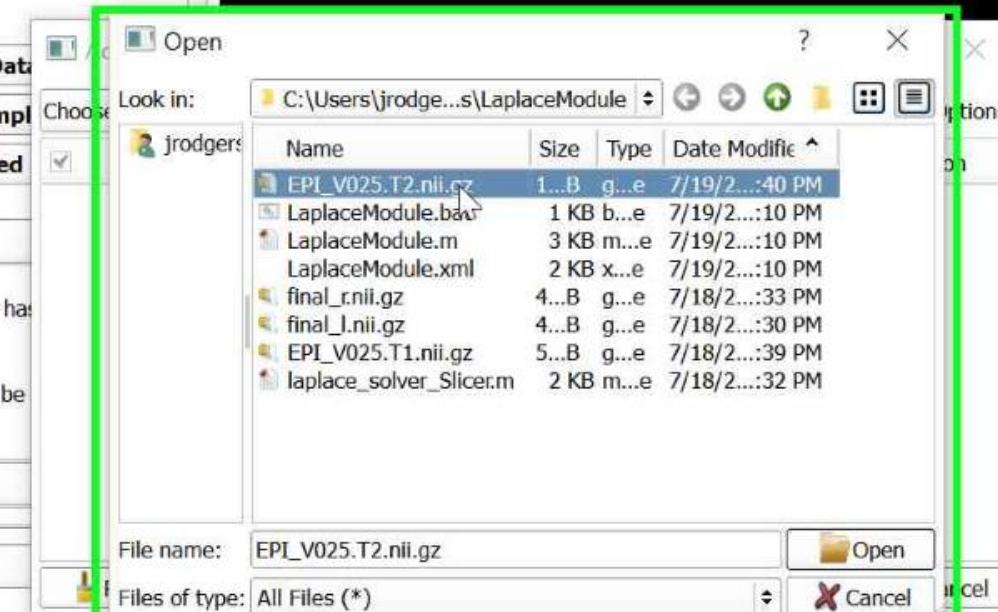
 Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:27 PM

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

# Welcome



## Feedback

Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

Show Zoomed Slice

L  
F  
B

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
```

```
>>>
```



Type here to search

5:27 PM ENG  
7/19/2017 1

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

# Welcome



## Feedback

Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

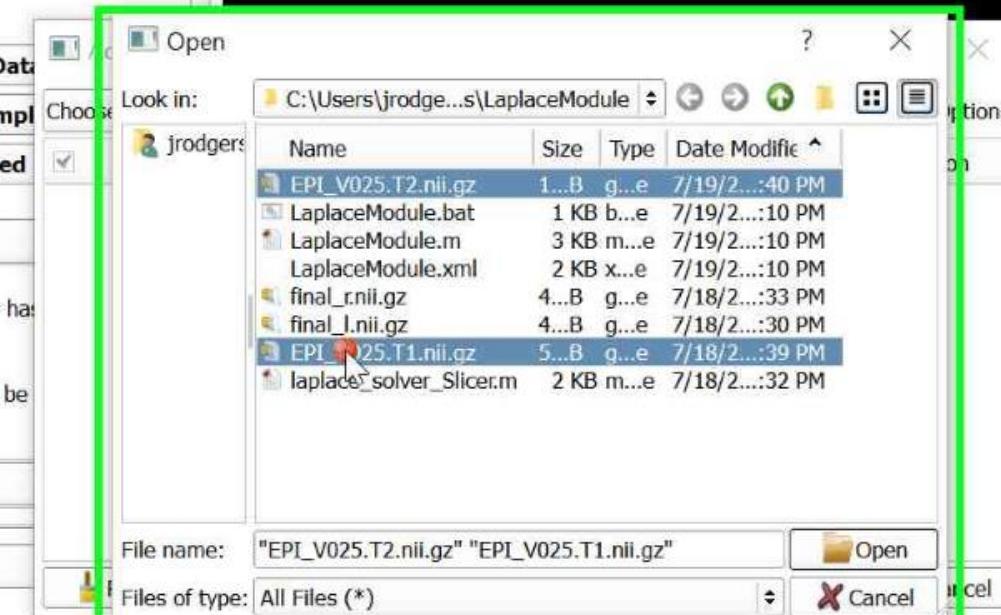
Show Zoomed Slice

L  
F  
B

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
```

```
>>>
```



File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

Share your stories with us and let us know about how 3D Slicer has helped your research.

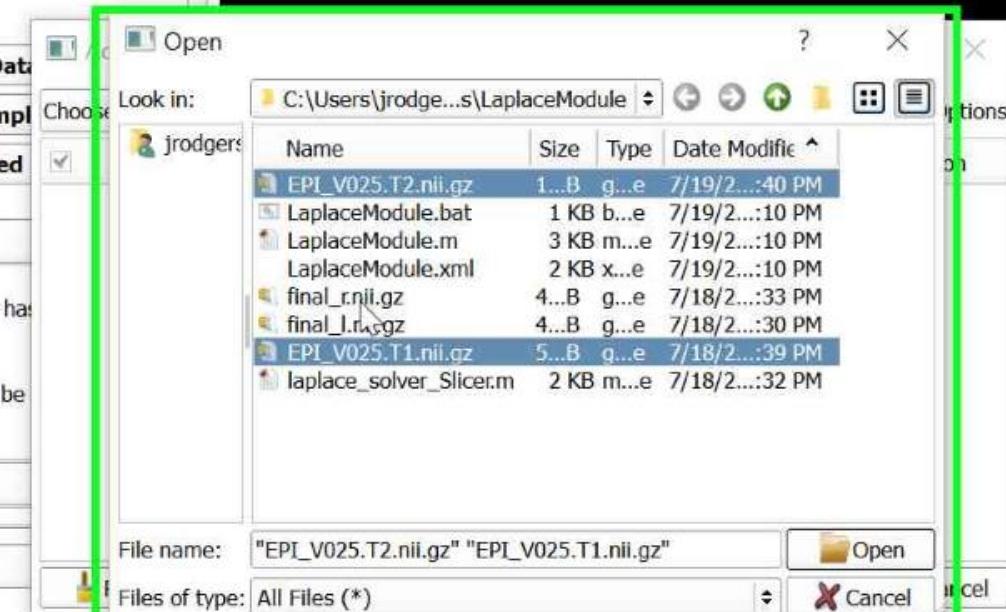
We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

Show Zoomed Slice

L  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

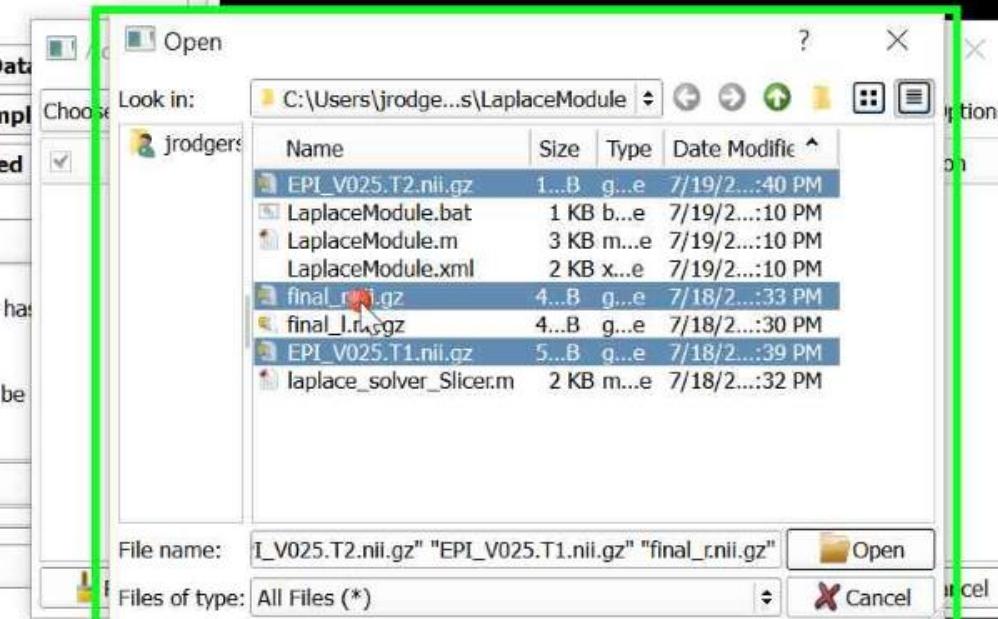
Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

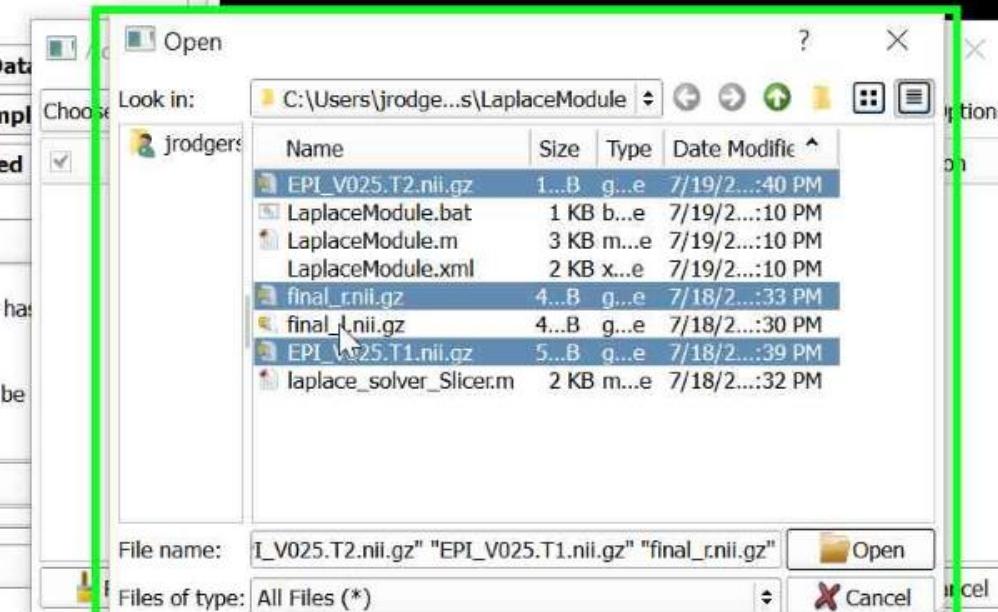
Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM ENG  
7/19/2017 1

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

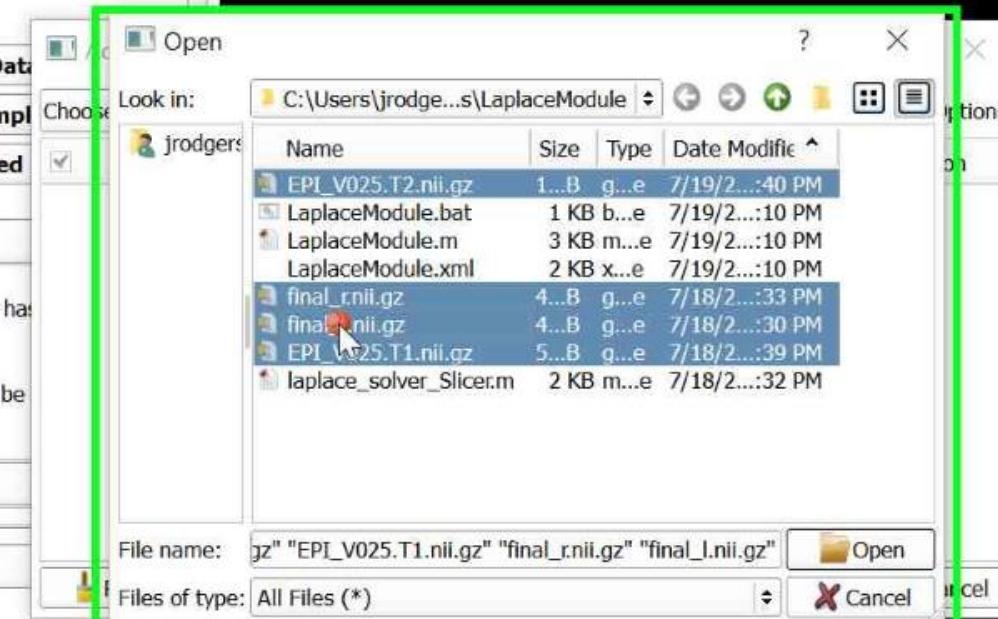
Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



ENG

5:27 PM  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome



## Feedback

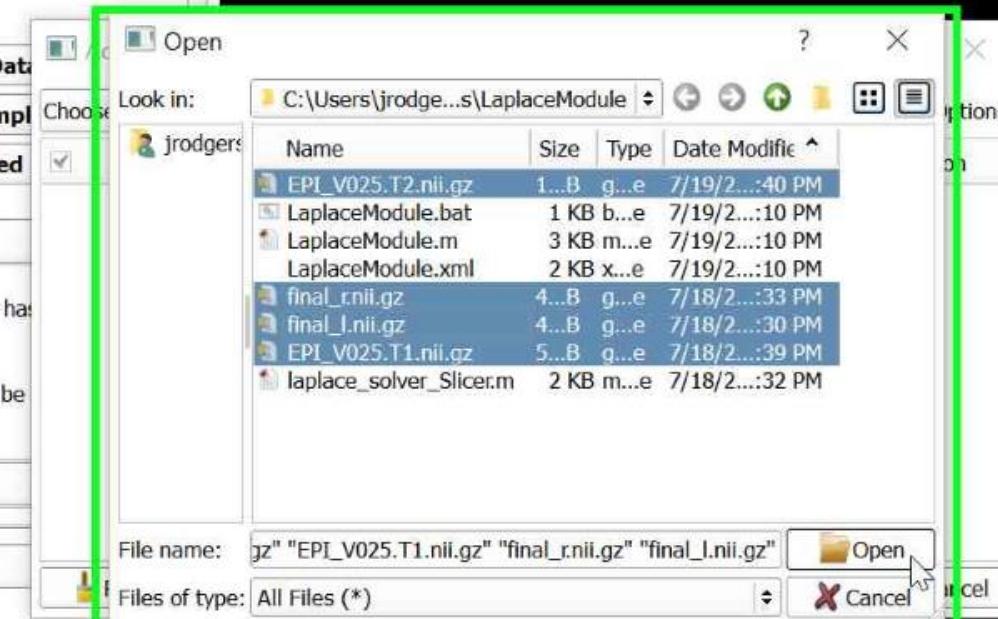
Share your stories with us and let us know about how 3D Slicer has helped your research.

We are always interested in improving 3D Slicer, and every submission will be

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM ENG  
7/19/2017 1

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome

Load DICOM Data

Install Slicer Extensions

Customize Slicer

Load Data

Download Sample

Explore Loaded

## Feedback

 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

Add data into the scene

Choose Directory to Add Choose File(s) to Add

Show Options

File	Description
C:/Users/jrodgers/Documents/LaplaceModule/EPI_V025.T2.nii.gz	Volume
C:/Users/jrodgers/Documents/LaplaceModule/EPI_V025.T1.nii.gz	Volume
C:/Users/jrodgers/Documents/LaplaceModule/final_r.nii.gz	Volume
C:/Users/jrodgers/Documents/LaplaceModule/final_l.nii.gz	Volume

Reset OK Cancel

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:27 PM

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome

Load DICOM Data

Install Slicer Extensions

Customize Slicer

Load Data

Download Sample

Explore Loaded

## Feedback

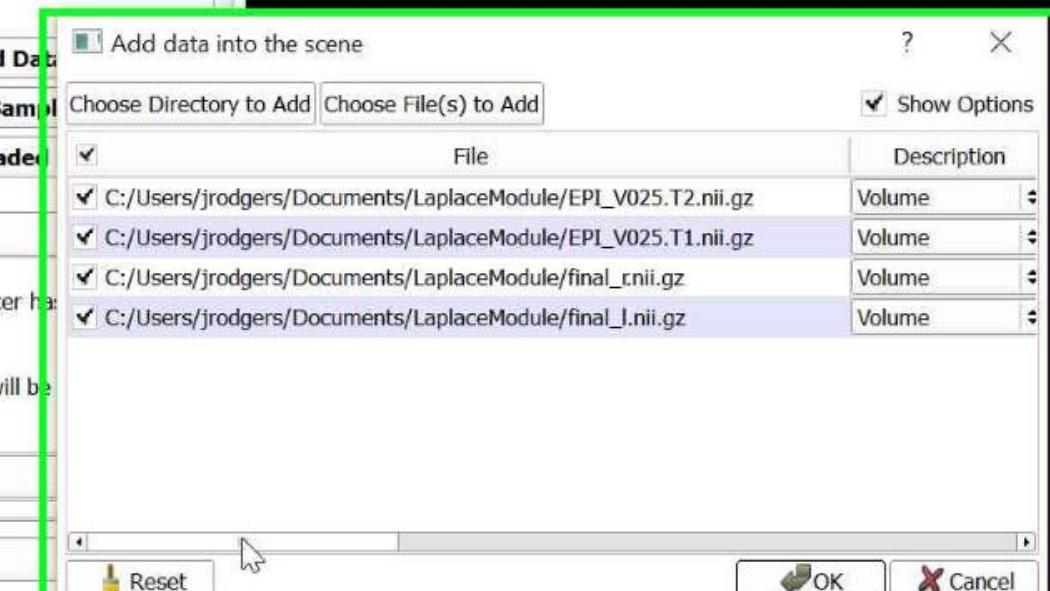
 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome

Load DICOM Data Load Data

Install Slicer Extensions

Download Sample

Customize Slicer

Explore Loaded

## Feedback

 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

Add data into the scene

Choose Directory to Add Choose File(s) to Add  Show Options

Description	Options
Volume EPI_V025.T2.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume EPI_V025.T1.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_r	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_l	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir

Reset OK Cancel

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM ENG  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome

Load DICOM Data Load Data

Install Slicer Extensions

Download Sample

Customize Slicer

Explore Loaded

## Feedback

 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

Add data into the scene

Choose Directory to Add Choose File(s) to Add  Show Options

Description	Options
Volume EPI_V025.T2.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume EPI_V025.T1.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_r	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_l	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir

Reset OK Cancel

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

## Welcome

Load DICOM Data Load Data

Install Slicer Extensions

Download Sample

Customize Slicer

Explore Loaded

## Feedback

 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

Add data into the scene

Choose Directory to Add Choose File(s) to Add  Show Options

Description	Options
Volume EPI_V025.T2.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume EPI_V025.T1.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_r	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input checked="" type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_l	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir

Reset OK Cancel

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

5:27 PM ENG  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: Welcome to Slicer

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Welcome

Load DICOM Data Load Data

Install Slicer Extensions

Download Sample

Customize Slicer

Explore Loaded

## Feedback

 Share your stories with us and let us know about how 3D Slicer has helped you in your research.

We are always interested in improving 3D Slicer, and every submission will be reviewed.

See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

 Show Zoomed SliceL  
F  
B

Add data into the scene

Choose Directory to Add Choose File(s) to Add  Show Options

Description	Options
Volume EPI_V025.T2.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume EPI_V025.T1.nii.gz	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_r	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input checked="" type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir
Volume final_l	<input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input checked="" type="checkbox"/> LabelMap <input checked="" type="checkbox"/> Sir

Reset OK Cancel

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

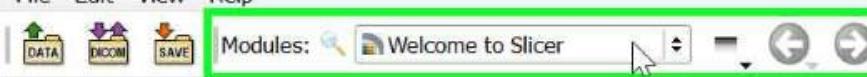


5:28 PM

7/19/2017



File Edit View Help



Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment



# Welcome



## Feedback

 Share your stories with us and let us know about how 3D Slicer has enabled your research.

We are always interested in improving 3D Slicer, and every submission will be carefully read.

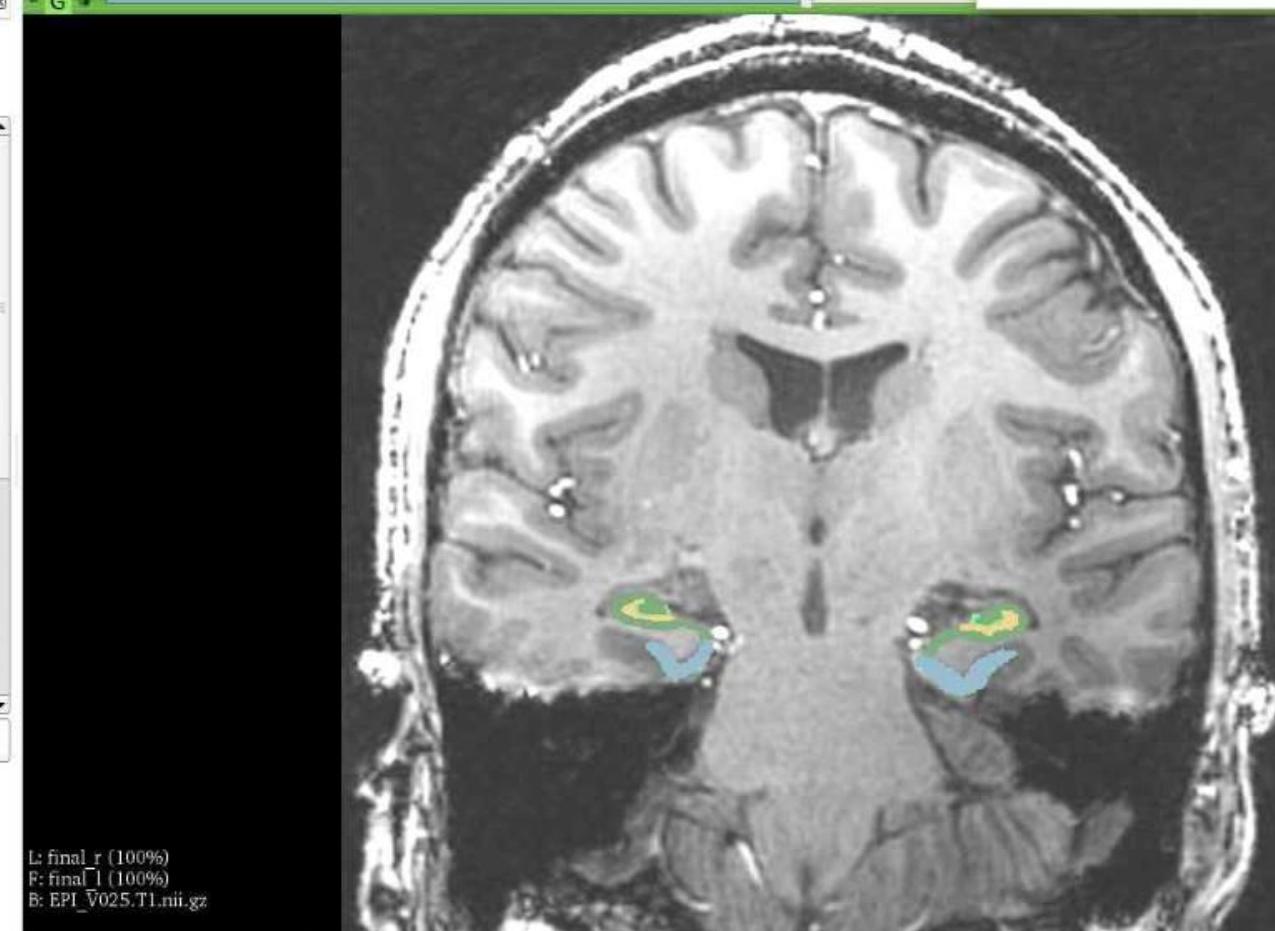
See more at <http://goo.gl/6BvcHm>.

## About

## Data Probe

Show Zoomed Slice

L  
F  
B



L: final\_r (100%)  
R: final\_l (100%)  
B: EPI\_V025.T1.nii.gz

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

>>>



Type here to search



5:30 PM  
7/19/2017





Modules:

Welcome to Slicer

All Modules

Annotations

Data

DataStore

DICOM

Editor

Markups

Models

Scene Views

Segment Editor

Segmentations

Transforms

View Controllers

Volume Rendering

Volumes

Welcome to Slicer

Matlab

Wizards

Informatics

Registration

Segmentation

Quantification

Diffusion

IGT

Filtering

Surface Models

Converters

Endoscopy

Utilities

Developer Tools

Legacy

Testing

Filter

MultiVolume Support



Steps Recorder - Recording Now

Pause Record

Stop Record

Add Comment



## Welcome

Load DICOM Data

Install Slicer Extensions

Customize Slicer

## Feedback

Share your stories with research.

We are always interested in improving Slicer.

See more

About

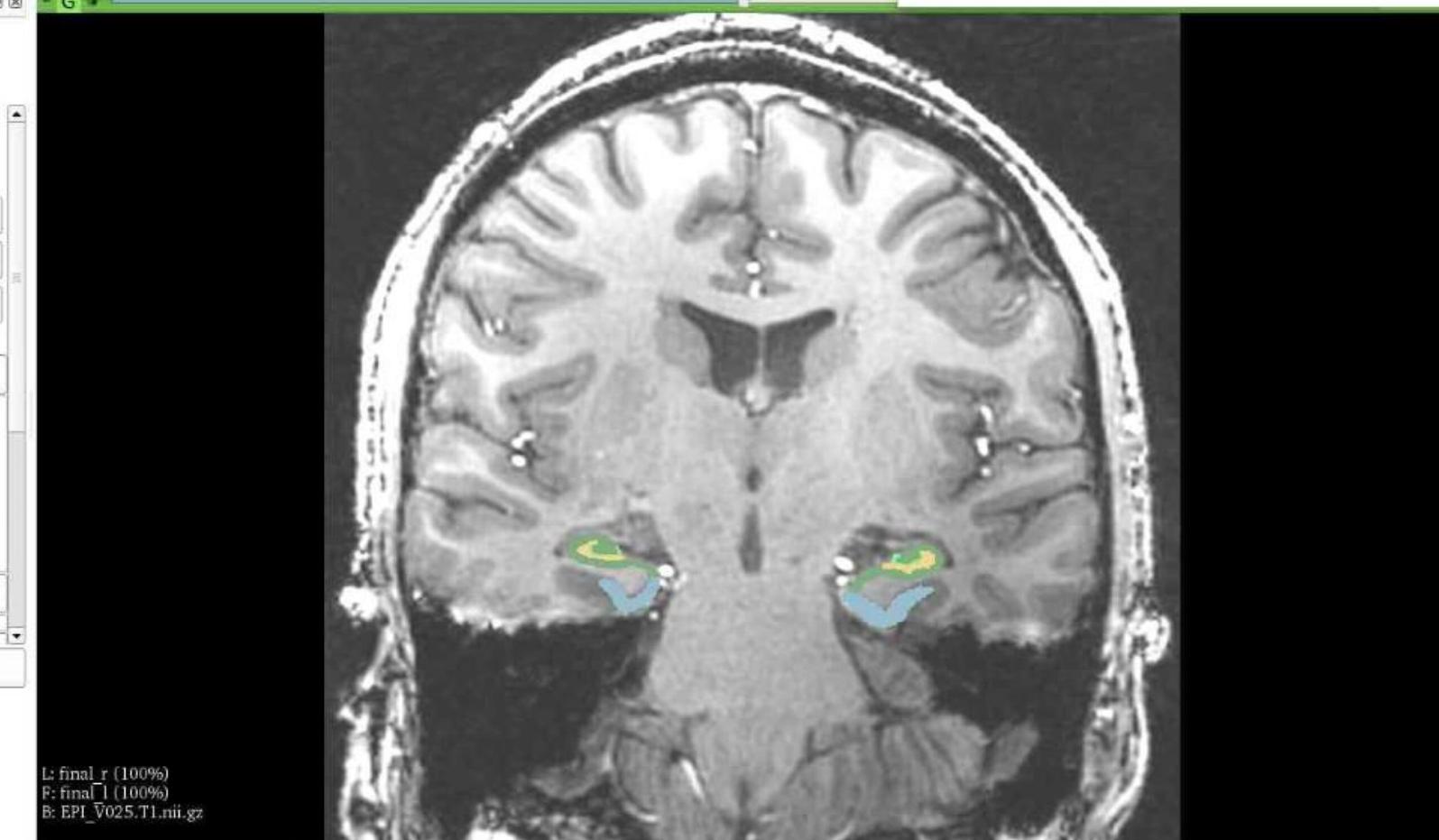
## Data Probe

 Show Zoomed SliceL  
F  
B

## Python Interactor

Python 2.7.13 (default, Jun 29 2016, 13:41:42)

&gt;&gt;&gt;



Type here to search



Modules:

Welcome to Slicer

All Modules

Annotations

Data

DataStore

DICOM

Editor

Markups

Models

Scene Views

Segment Editor

Segmentations

Transforms

View Controllers

Volume Rendering

Volumes

Welcome to Slicer

Matlab

LaplaceModule

Wizards

Informatics

Registration

Segmentation

Quantification

Diffusion

IGT

Filtering

Surface Models

Converters

Endoscopy

Utilities

Developer Tools

Legacy

Testing

Filter

MultiVolume Support

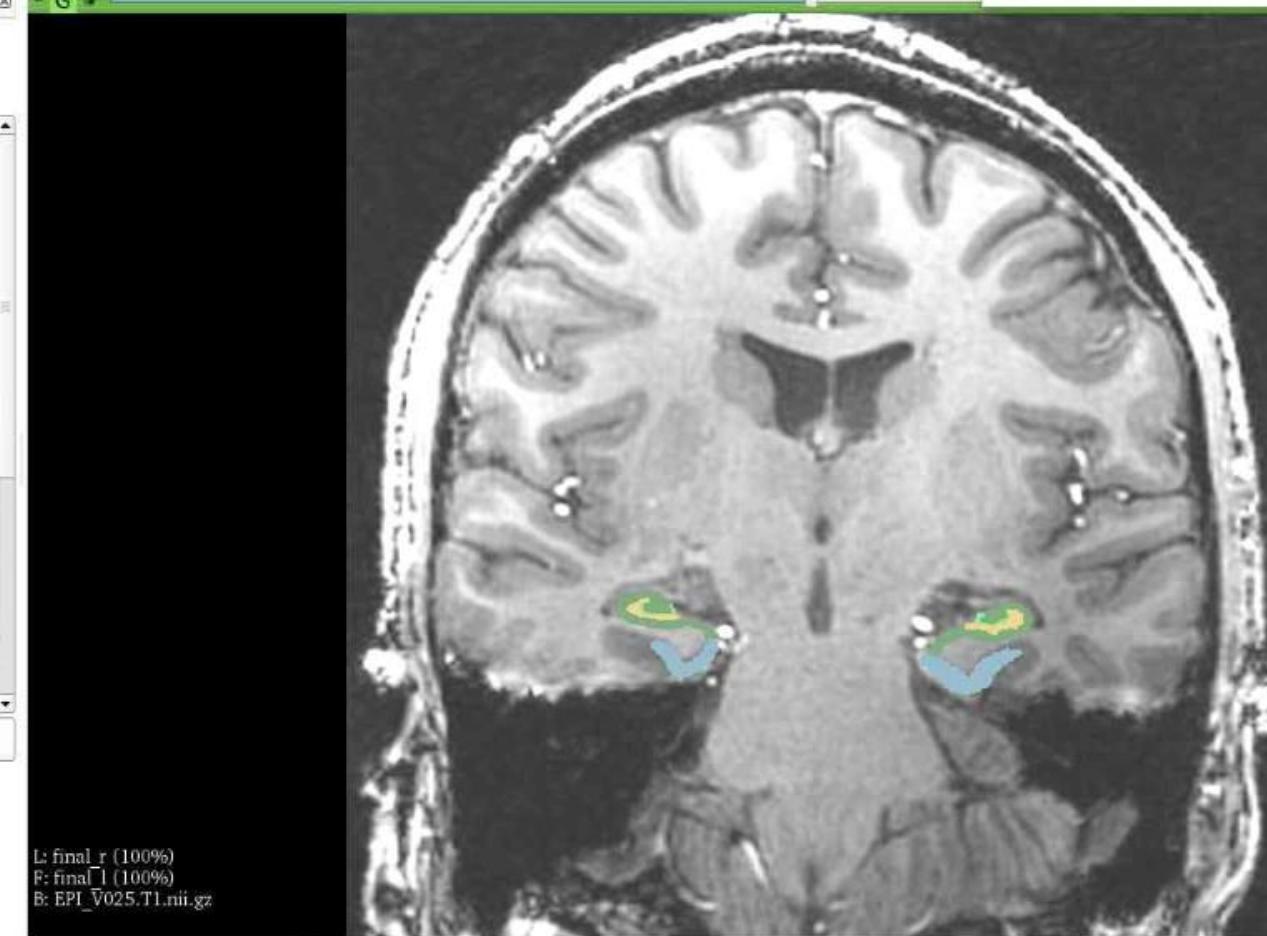


Steps Recorder - Recording Now

Pause Record

Stop Record

Add Comment



Type here to se

5:30 PM ENG  
7/19/2017 1

File Edit View Help



Help &amp; Acknowledgement

## LaplaceModule

Parameter set: LaplaceModule

## Label Maps

Input Label Map None

Output Laplace Field None

## Labels

Foreground Label 1

Source Label 2

Sink Label 3

Max Iterations 500

Status: Idle

Restore Defaults AutoRun

Cancel

Apply

## Data Probe

 Show Zoomed Slice

L

F

B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (A]

&gt;&gt;&gt;



Ensure that the `laplace_solver_Slicer.m` file location is added to the MATLAB path



Type here to search

5:30 PM  
7/19/2017

MATLAB R2014a

HOME PLOTS APPS

New Script New Open Compare Import Data Save Workspace Clear Workspace New Variable Open Variable Analyze Code Run and Time Simulink Library Preferences Set Path Parallel Add-Ons

Find Files

FILE VARIABLE CODE SIMULINK ENVIRONMENT RESOURCES

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

Current Folder C: > Users > jrodgers > Documents > MATLAB > Laplace >

Command Window

>> fx

Workspace

Name	Value
LaplaceSolver	

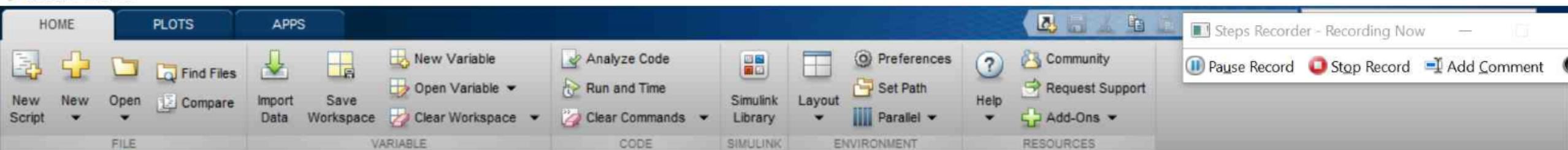
Command History

```
clean
3x rotatepoints
load('needle_metrics_ph...
load('needles_phantom(U...
2x function_calls
clean
load('needle_metrics_ph...
load('needle_metrics_ph...
[h, p, ci, stats] = tte...
[h, p, ci, stats] = tte...
```

Details Ready

Type here to search

5:30 PM ENG 7/19/2017



Current Folder      Command Window      Workspace

LaplaceSolver > >>

Open Enter  
Show in Explorer

Create Zip File

Rename F2  
Delete Delete

New Folder

New File >

Compare Selected Files/Folders

Compare Against >

Source Control >

Cut Ctrl+X  
Copy Ctrl+C  
Paste Ctrl+V

Add to Path >  
Selected Folders  
Selected Folders and Subfolders

Indicate Files Not on Path

Refresh F5

LaplaceSolver (Folder) ▾

Command History

```
clean
3x rotatepoints
load('needle_metrics_ph...
load('needles_phantom(U...
2x function_calls
clean
load('needle_metrics_ph...
load('needle_metrics_ph...
[h, p, ci, stats] = tte...
[h, p, ci, stats] = tte...
```

HOME PLOTS APPS

New Script New Open Compare Import Data Save Workspace Clear Workspace Analyze Code Run and Time Simulink Library Preferences ? Community Set Path Parallel Add-Ons

FILE VARIABLE CODE SIMULINK ENVIRONMENT RESOURCES

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

Current Folder C: > Users > jrodgers > Documents > MATLAB > Laplace >

Command Window >>

LaplaceSolver (Folder)

Workspace Name Value

Command History

```
clean
3x rotatepoints
load('needle_metrics_ph...
load('needles_phantom(U...
2x function_calls
clean
load('needle_metrics_ph...
load('needle_metrics_ph...
[h, p, ci, stats] = tte...
[h, p, ci, stats] = tte...
```

Add to Path Selected Folders  
Selected Folders and Subfolders

Indicate Files Not on Path Refresh F5

Type here to search

Ready

5:30 PM 7/19/2017

HOME PLOTS APPS

New Script New Open Compare Import Data Save Workspace Clear Workspace New Variable Open Variable Analyze Code Run and Time Simulink Library Preferences Set Path Help Add-Ons

Find Files VARIABLE CODE SIMULINK ENVIRONMENT RESOURCES

FILE

Current Folder C: > Users > jrodgers > Documents > MATLAB > Laplace >

Command Window

LaplaceSolver

Workspace

Command History

```
clean
3x rotatepoints
load('needle_metrics_ph...
load('needles_phantom(U...
2x function_calls
clean
load('needle_metrics_ph...
load('needle_metrics_ph...
[h, p, ci, stats] = tte...
[h, p, ci, stats] = tte...
```

LaplaceSolver (Folder)

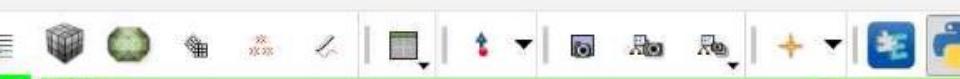
Ready

Type here to search

5:30 PM 7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: None

Output Laplace Field: None

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 3

Max Iterations: 500

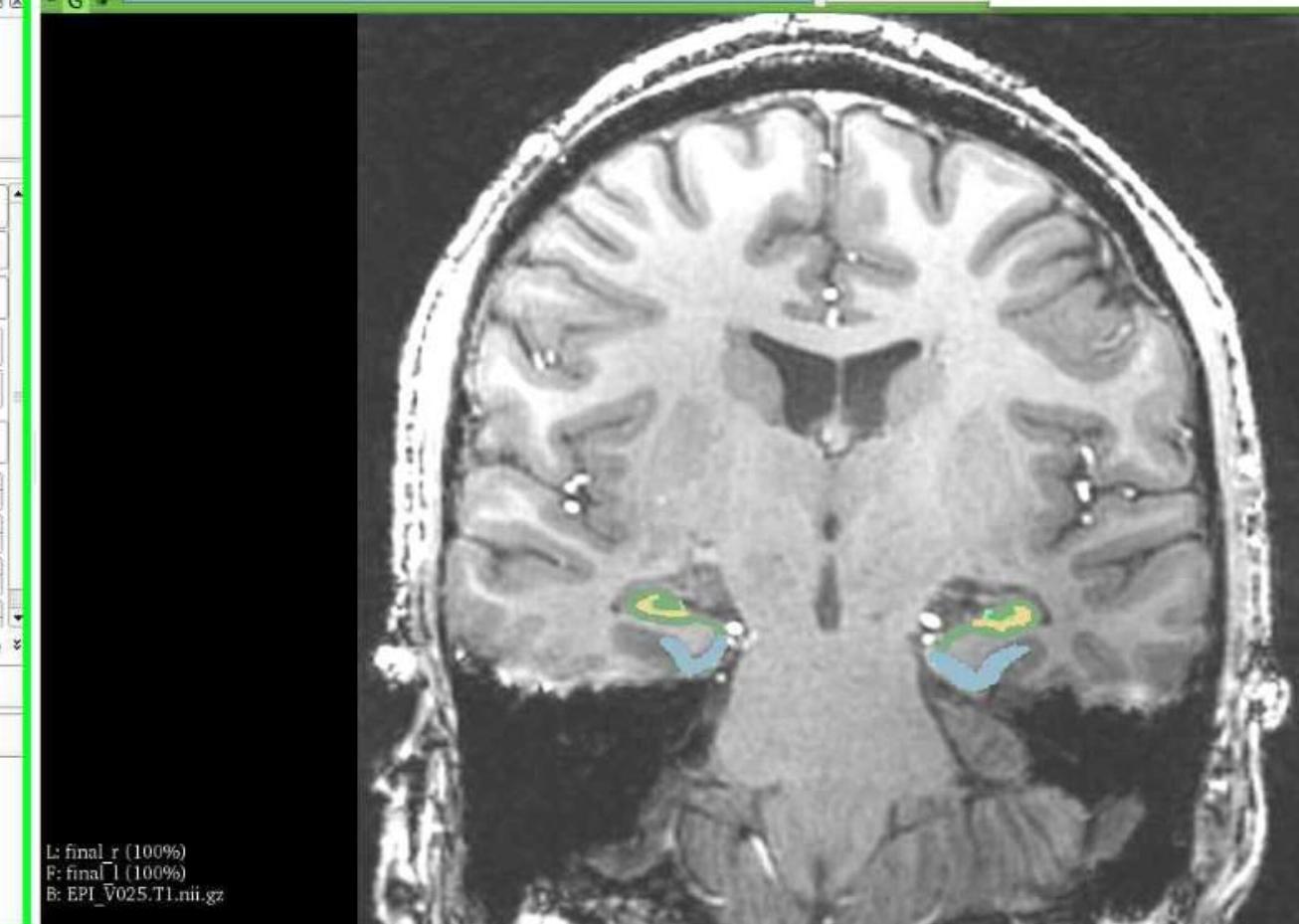
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:30 PM ENG

7/19/2017 1

File Edit View Help



Help &amp; Acknowledgement

## LaplaceModule

Parameter set: LaplaceModule

## Label Maps

Input Label Map None

Output Laplace Field EPI\_V025.T2.nii.gz

Labels

final\_r

Foreground Label 1 final\_l

Source Label 2 Rename current node

Sink Label 3 Delete current node

Max Iterations 500

Restore Defaults AutoRun

Cancel Apply

## Data Probe

 Show Zoomed Slice

L

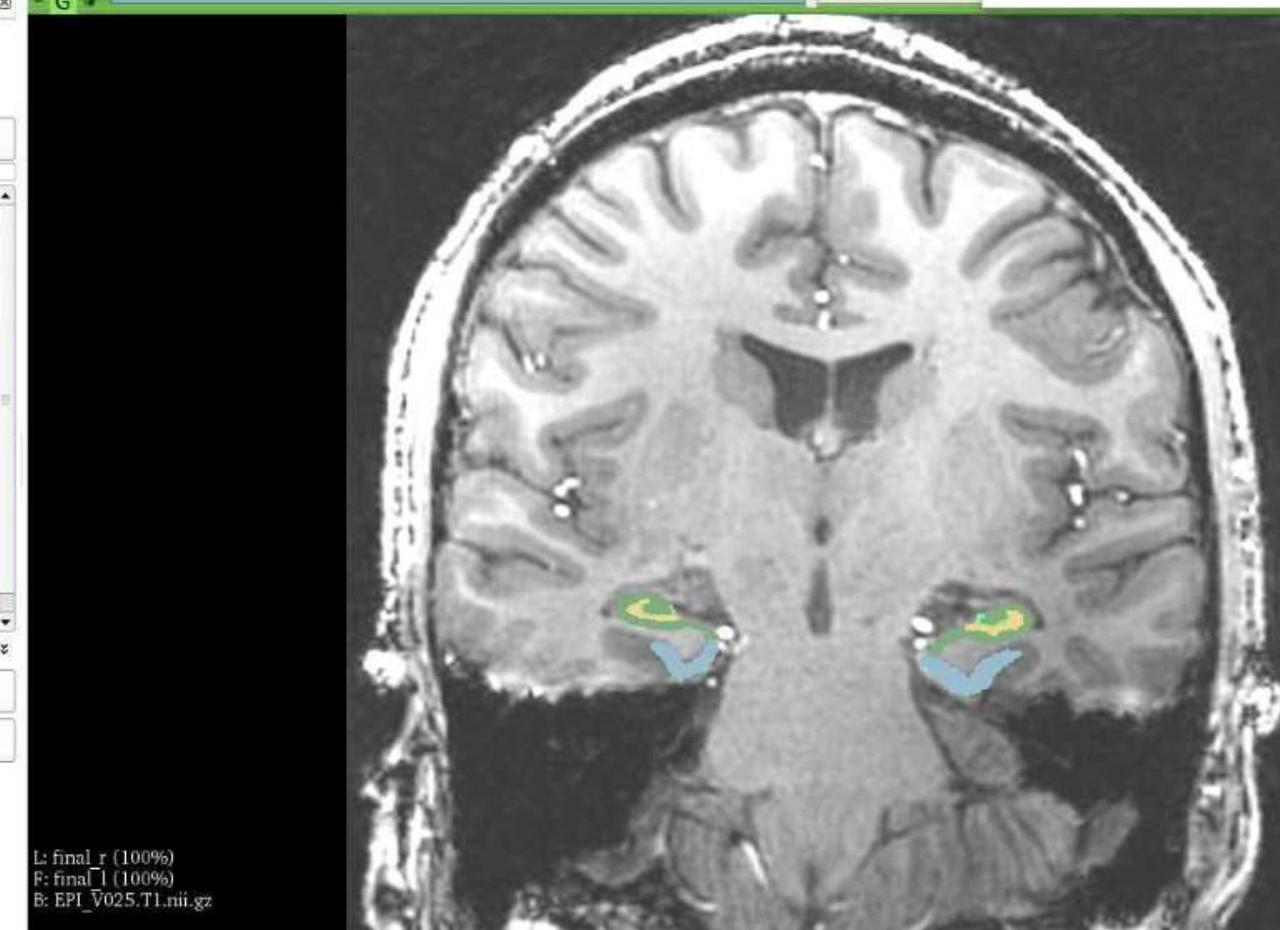
F

B

## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;

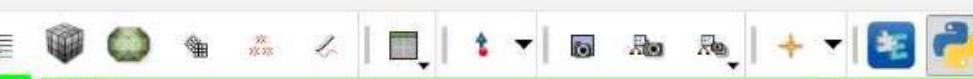


Type here to search

5:30 PM ENG  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: None

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 3

Max Iterations: 500

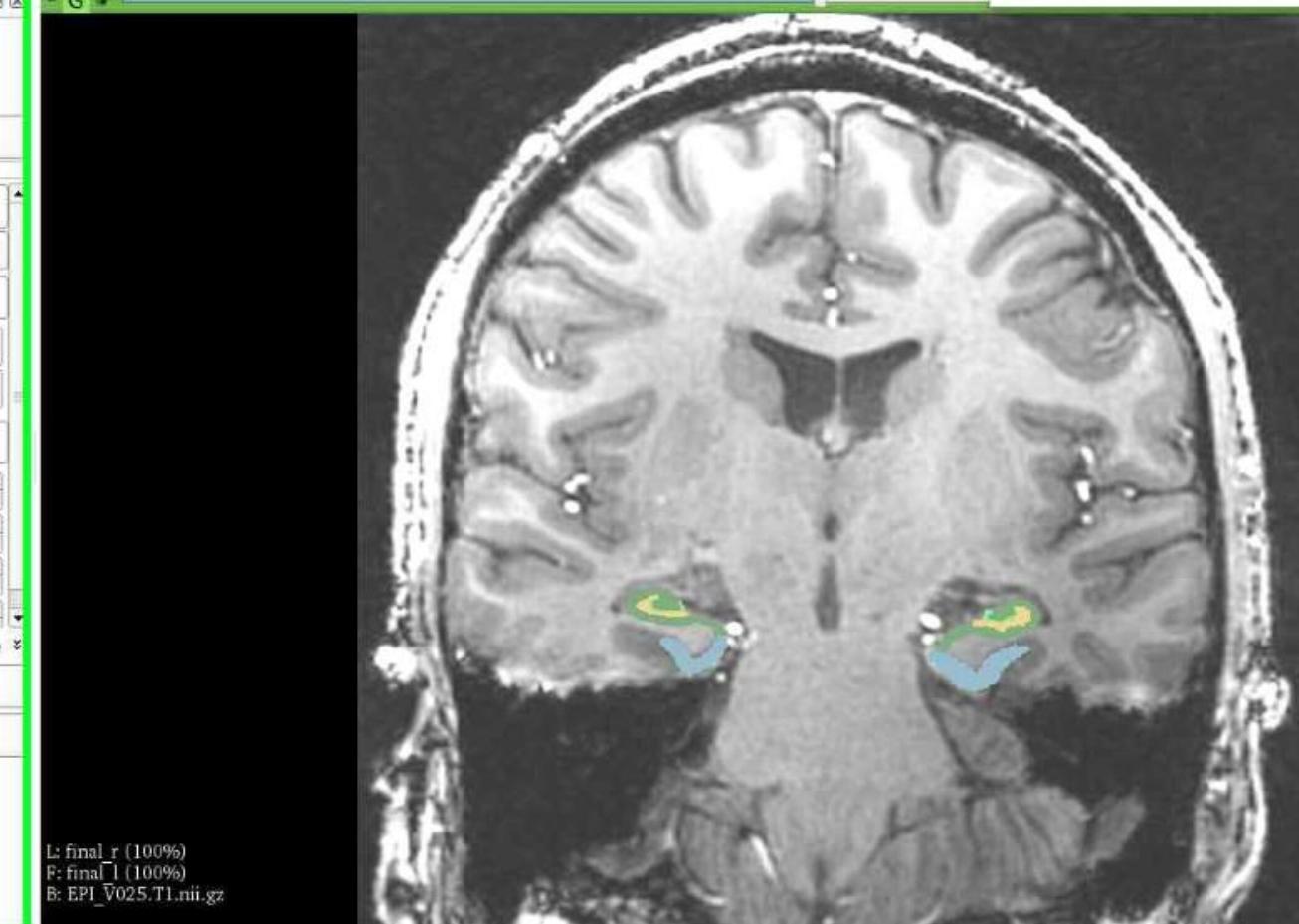
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:30 PM ENG

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

Help &amp; Acknowledgement

## LaplaceModule

Parameter set: LaplaceModule

## Label Maps

Input Label Map final\_I

Output Laplace Field None

## Labels

EPI\_V025.T2.nii.gz

EPI\_V025.T1.nii.gz

Foreground Label 1 final\_r

Source Label 2 final\_I

Sink Label 3 Rename current node LabelMapVolume

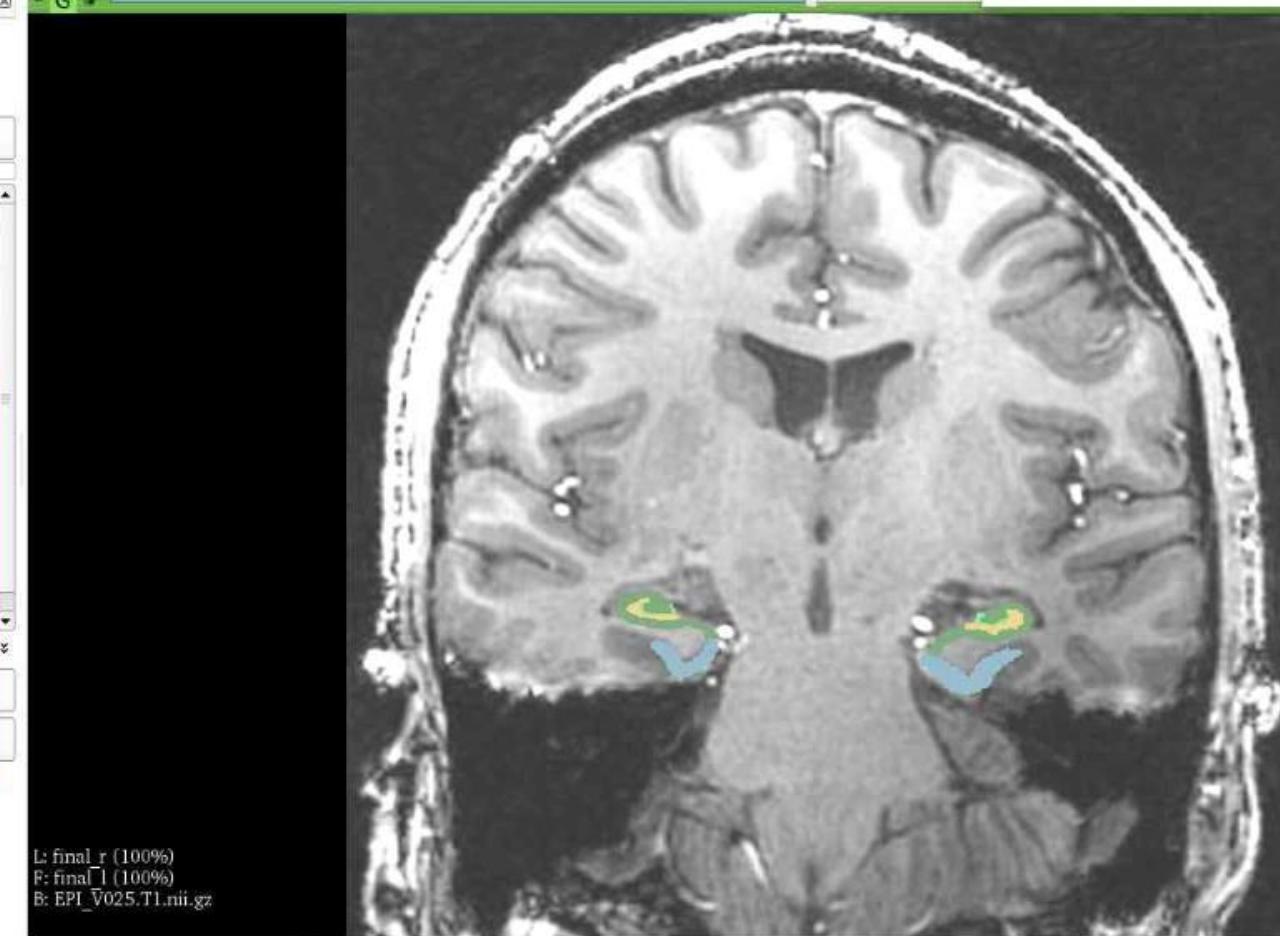
Max Iterations Create new Volume

Create new Volume as...

Create new LabelMapVolume

Create new LabelMapVolume as...

Delete current node

 Show Zoomed SliceL  
F  
B

Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:30 PM

7/19/2017

1

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment



Help &amp; Acknowledgement

## LaplaceModule

Parameter set: LaplaceModule

## Label Maps

Input Label Map final\_I

Output Laplace Field Output Laplace Field

## Labels

Foreground Label 1

Source Label 2

Sink Label 3

Max Iterations 500

Restore Defaults AutoRun

Cancel Apply

## Data Probe

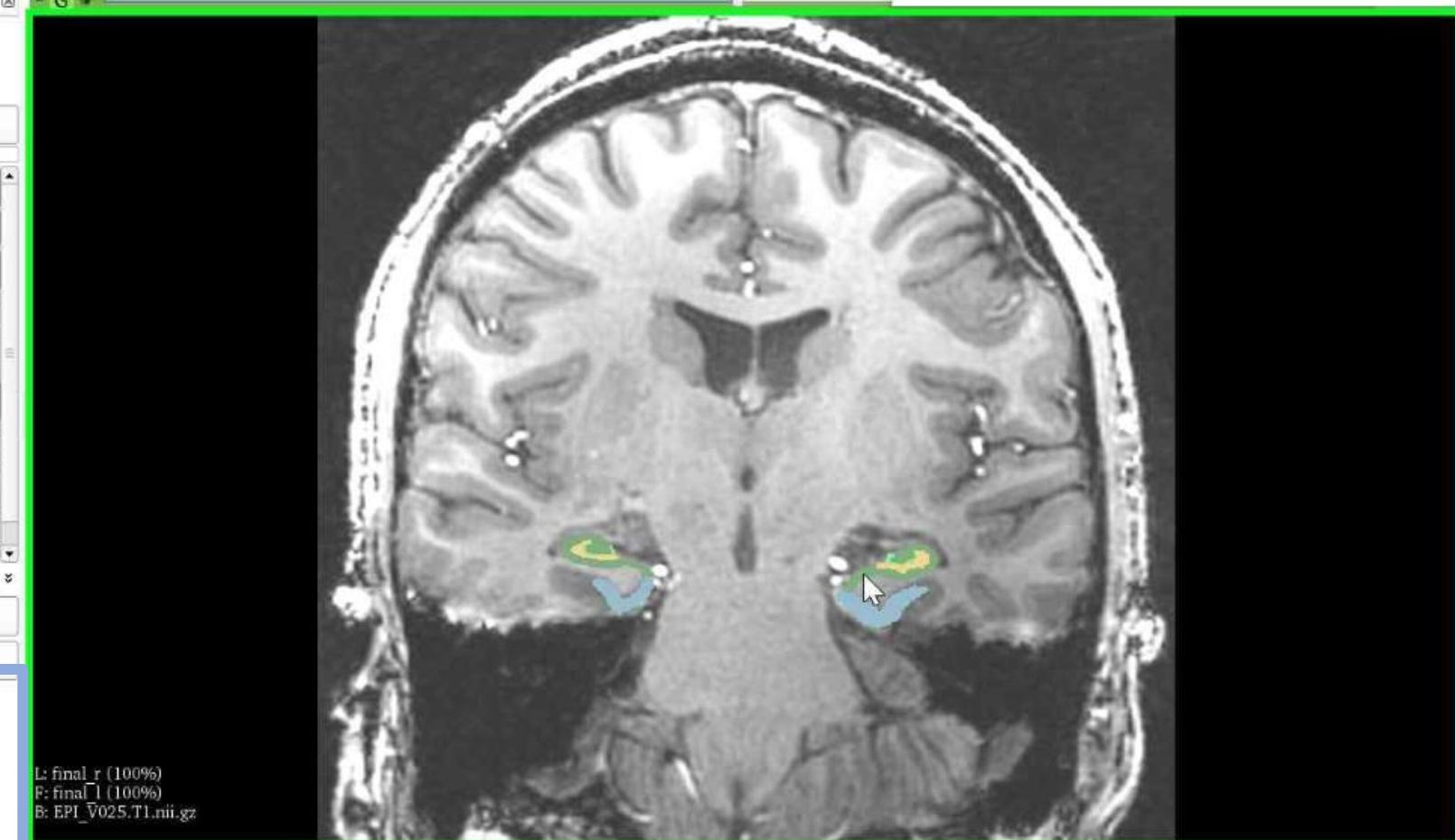
Green (L 19.6, P 2.2, I 22.9) Coronal Sp: 0.3

L final\_r (350, 366, 340) 0 (0)

F final\_I (350, 366, 340) 1 (1) ←

B EPI\_V025.T1.nii.gz (350, 366, 340) 13795.083008

Can use the  
Data Probe to  
see the label  
value



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



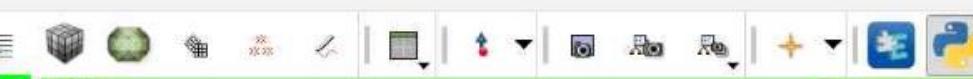
5:30 PM

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 3

Max Iterations: 500

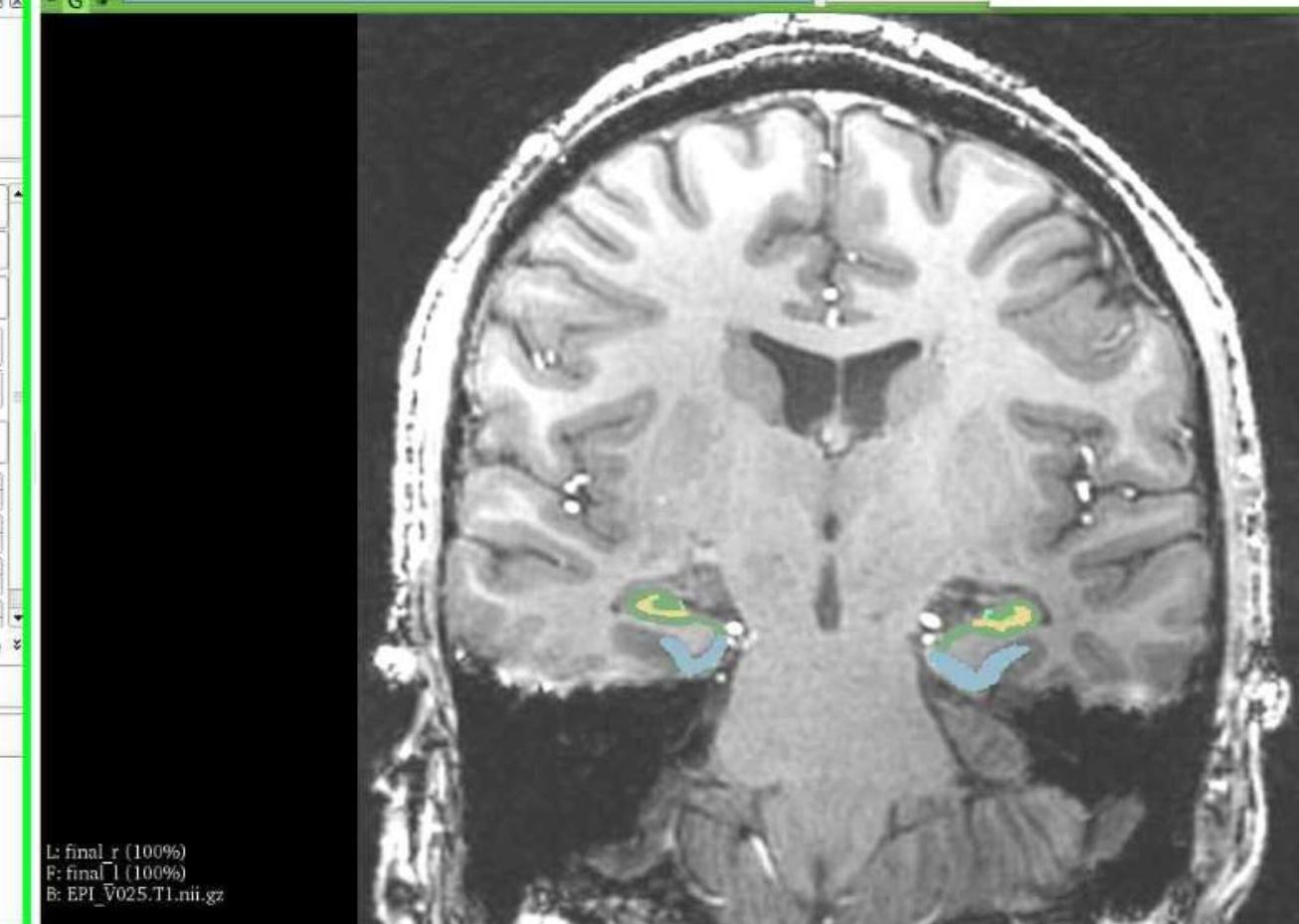
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:30 PM ENG

7/19/2017 1

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment



3D Slicer

Help &amp; Acknowledgement

## LaplaceModule

Parameter set: LaplaceModule

## Label Maps

Input Label Map final\_I

Output Laplace Field Output Laplace Field

## Labels

Foreground Label 1

Source Label 2

Sink Label 3

Max Iterations 500

Restore Defaults AutoRun

Cancel Apply

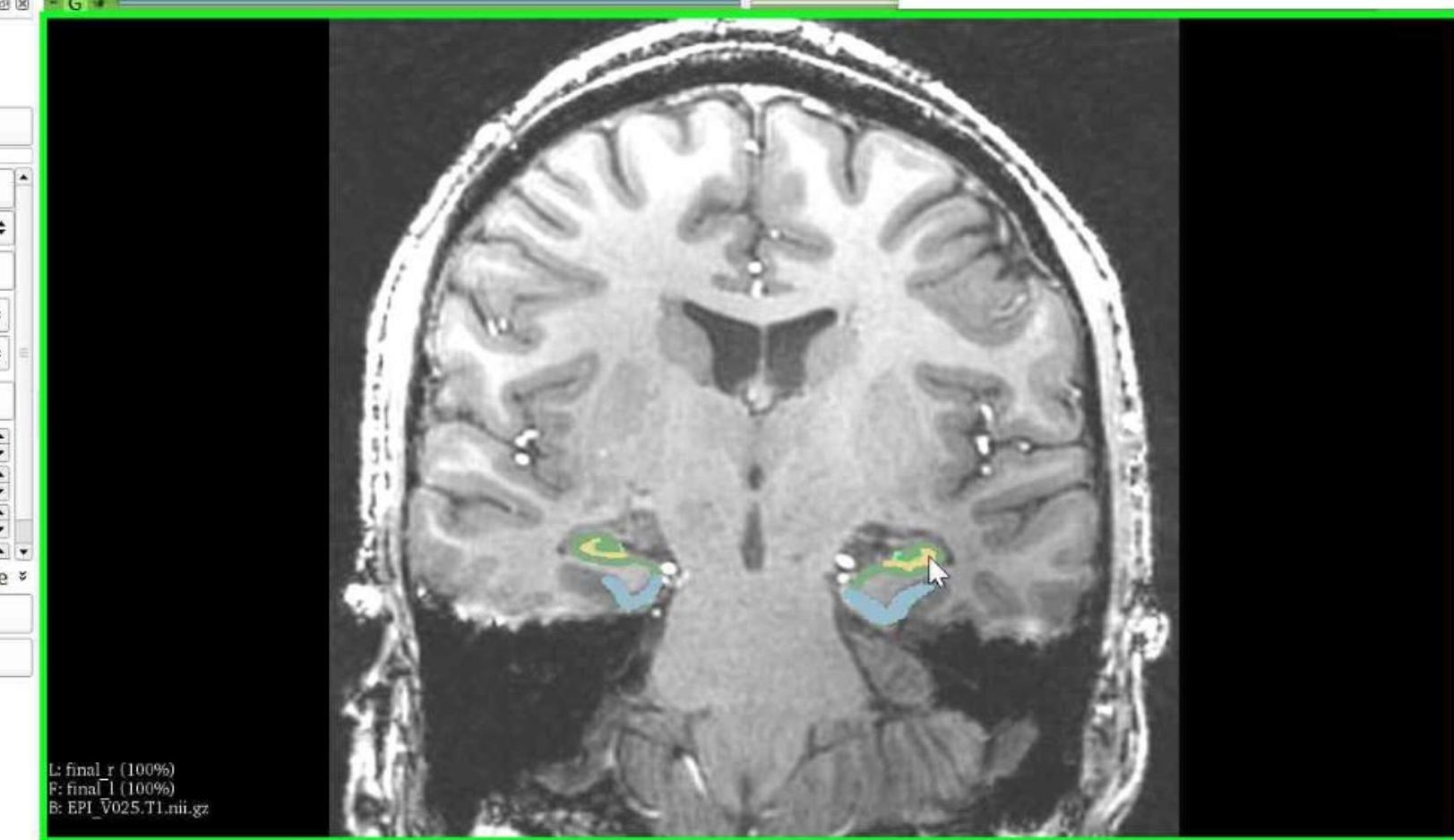
## Data Probe

Green (L 30.6, P 2.2, I 20.0) Coronal Sp: 0.3

L final\_r (340, 366, 376) 0 (0)

F final\_I (340, 366, 376) 2 (2)

B EPI\_V025.T1.nii.gz (340, 366, 376) 10881.108398



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



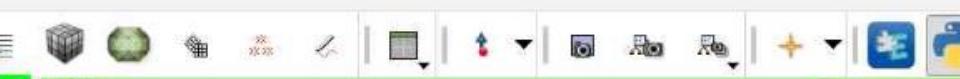
5:30 PM

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 3

Max Iterations: 500

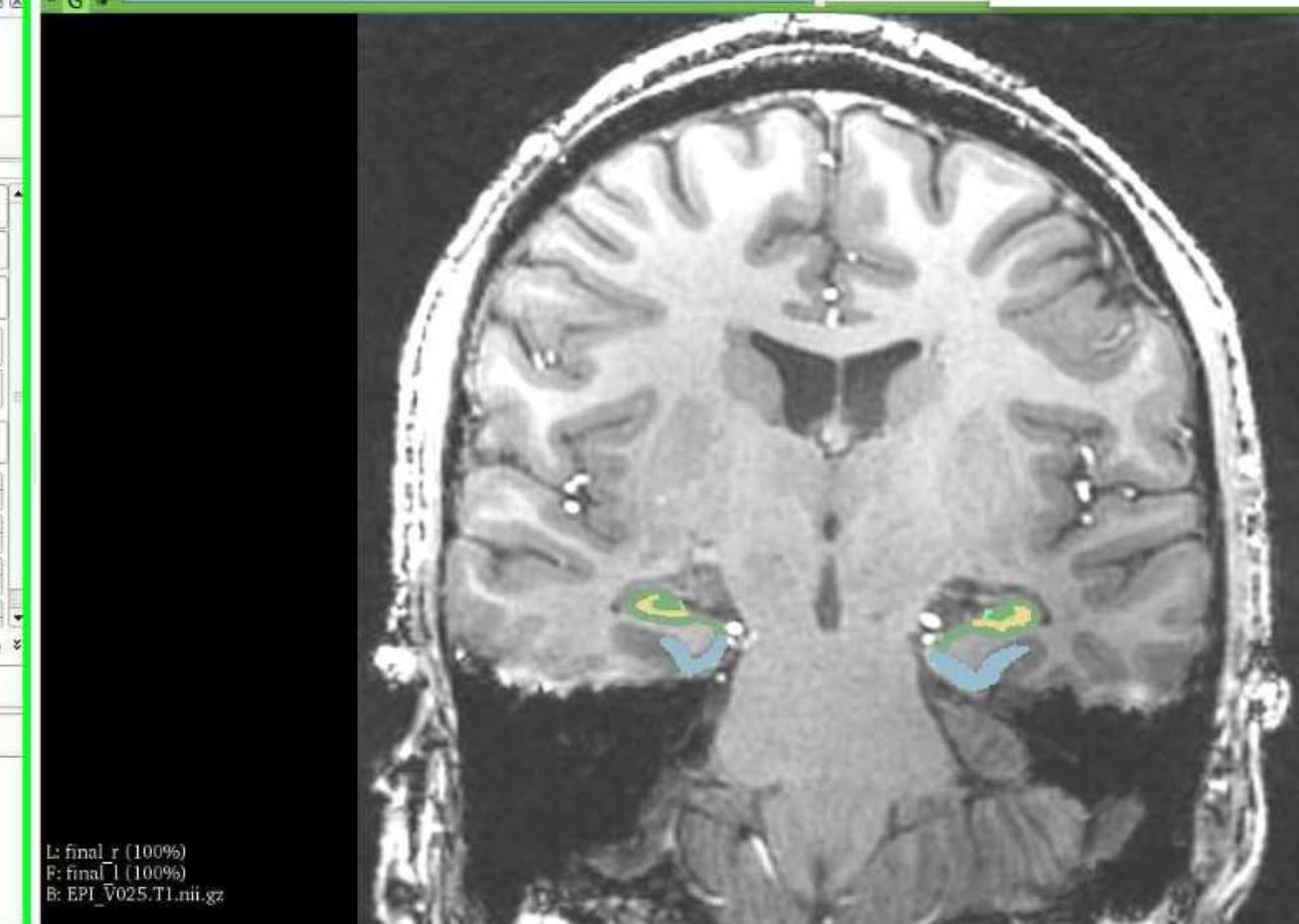
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

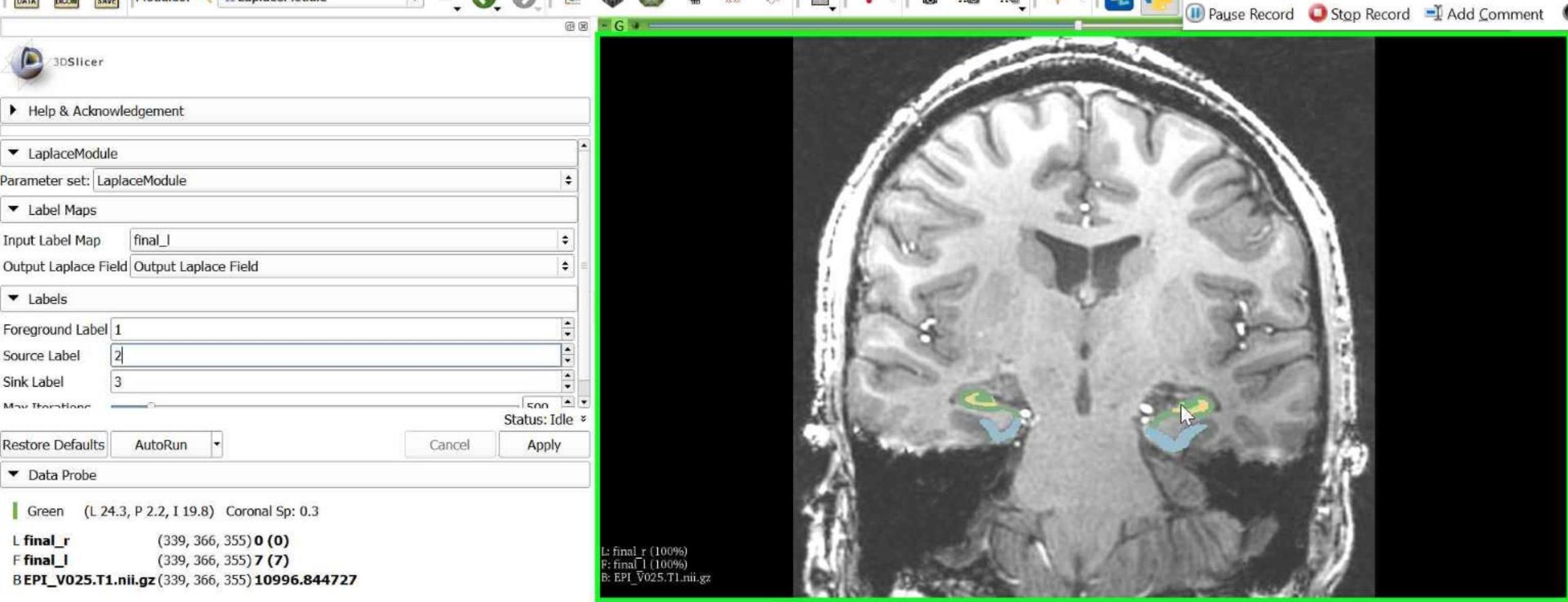


5:30 PM ENG

7/19/2017 1

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:30 PM

7/19/2017



File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 3

Max Iterations: 500

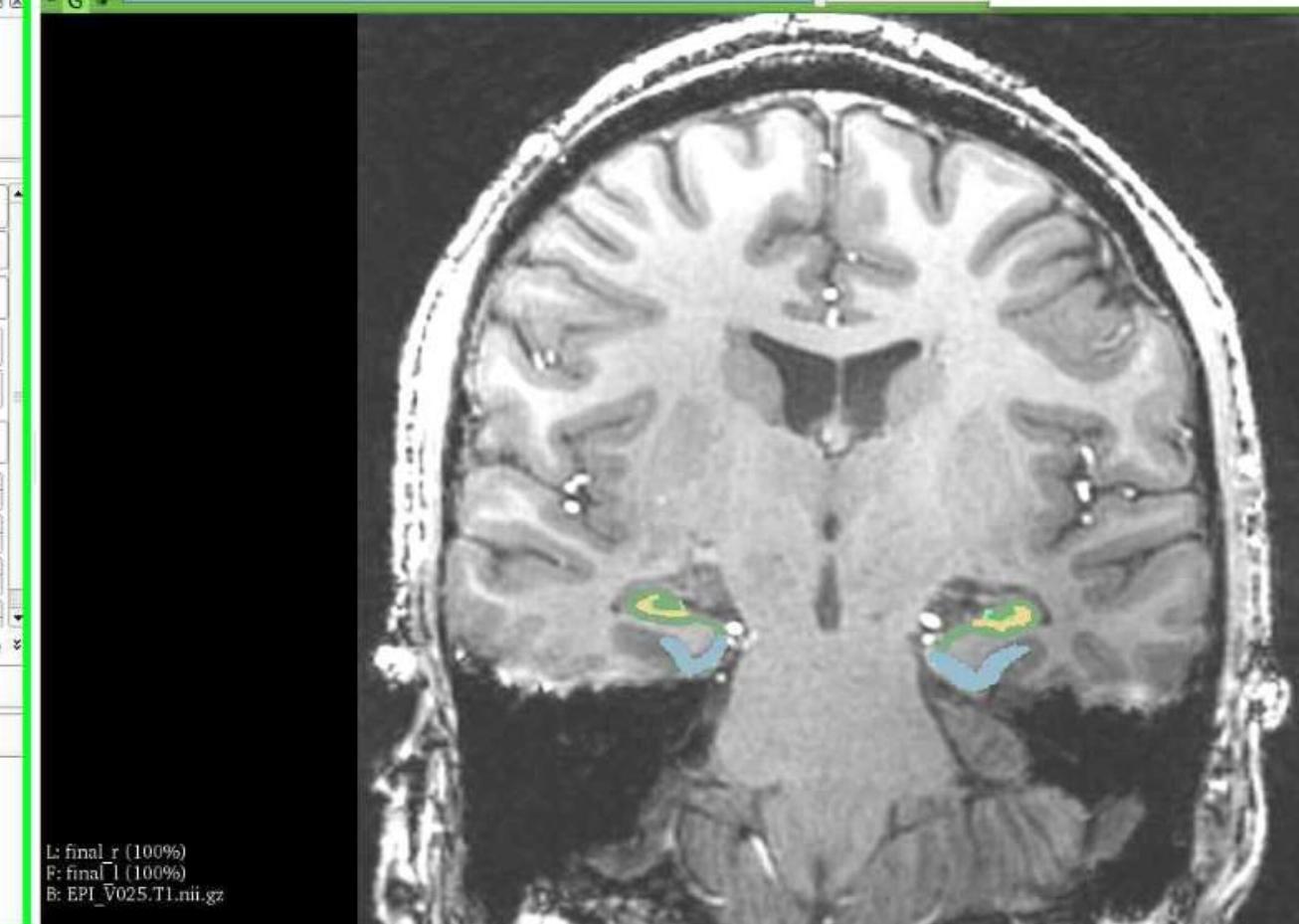
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;

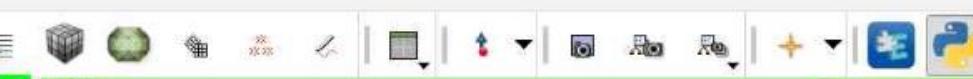


Type here to search

5:30 PM  
7/19/2017

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 3

Max Iterations: 500

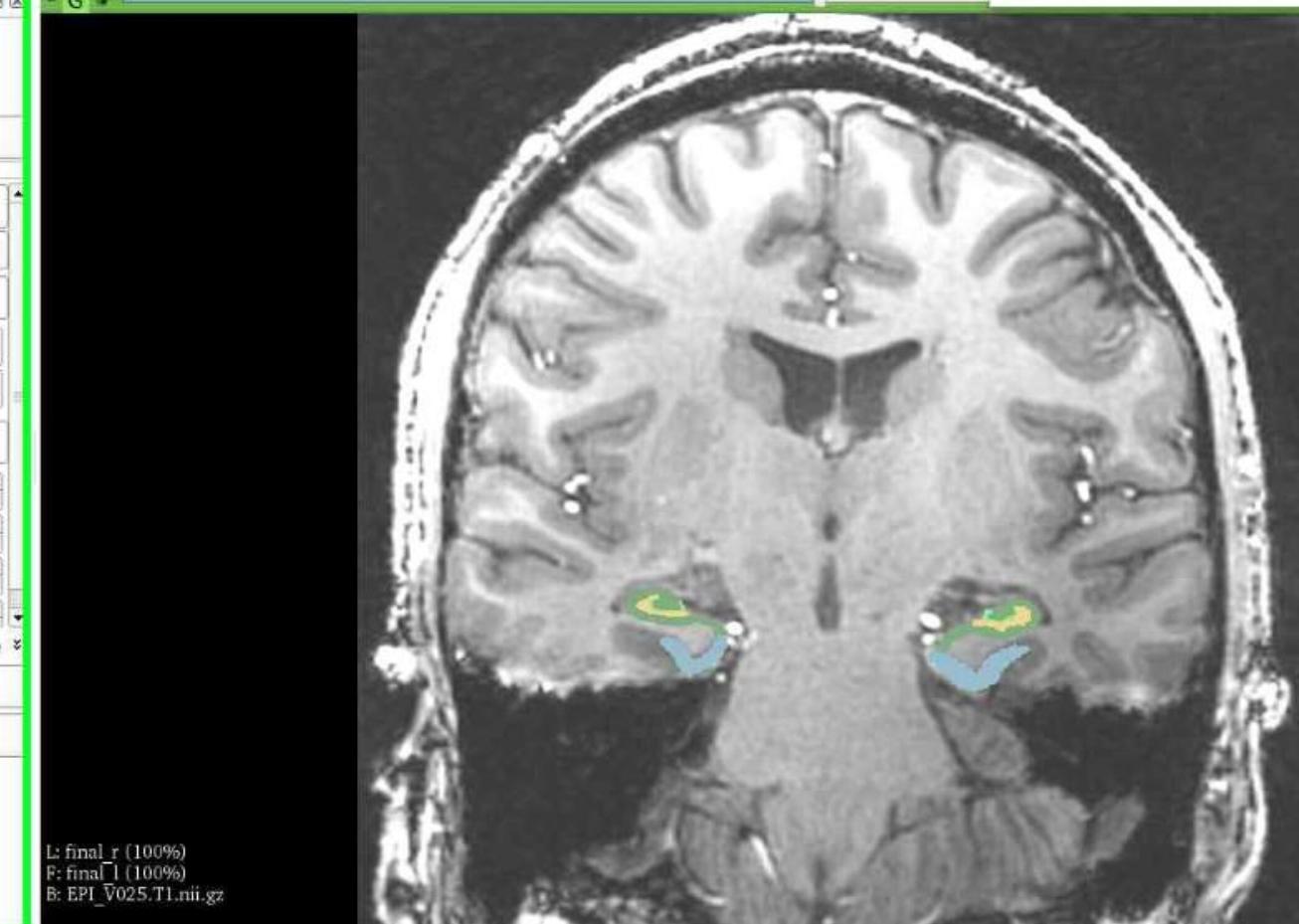
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



## Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search

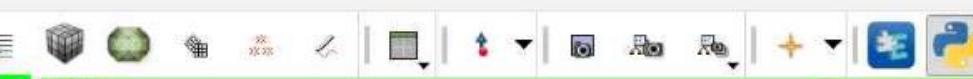


5:30 PM ENG

7/19/2017 1

File Edit View Help

DATA DICOM SAVE Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 7

Max Iterations: 500

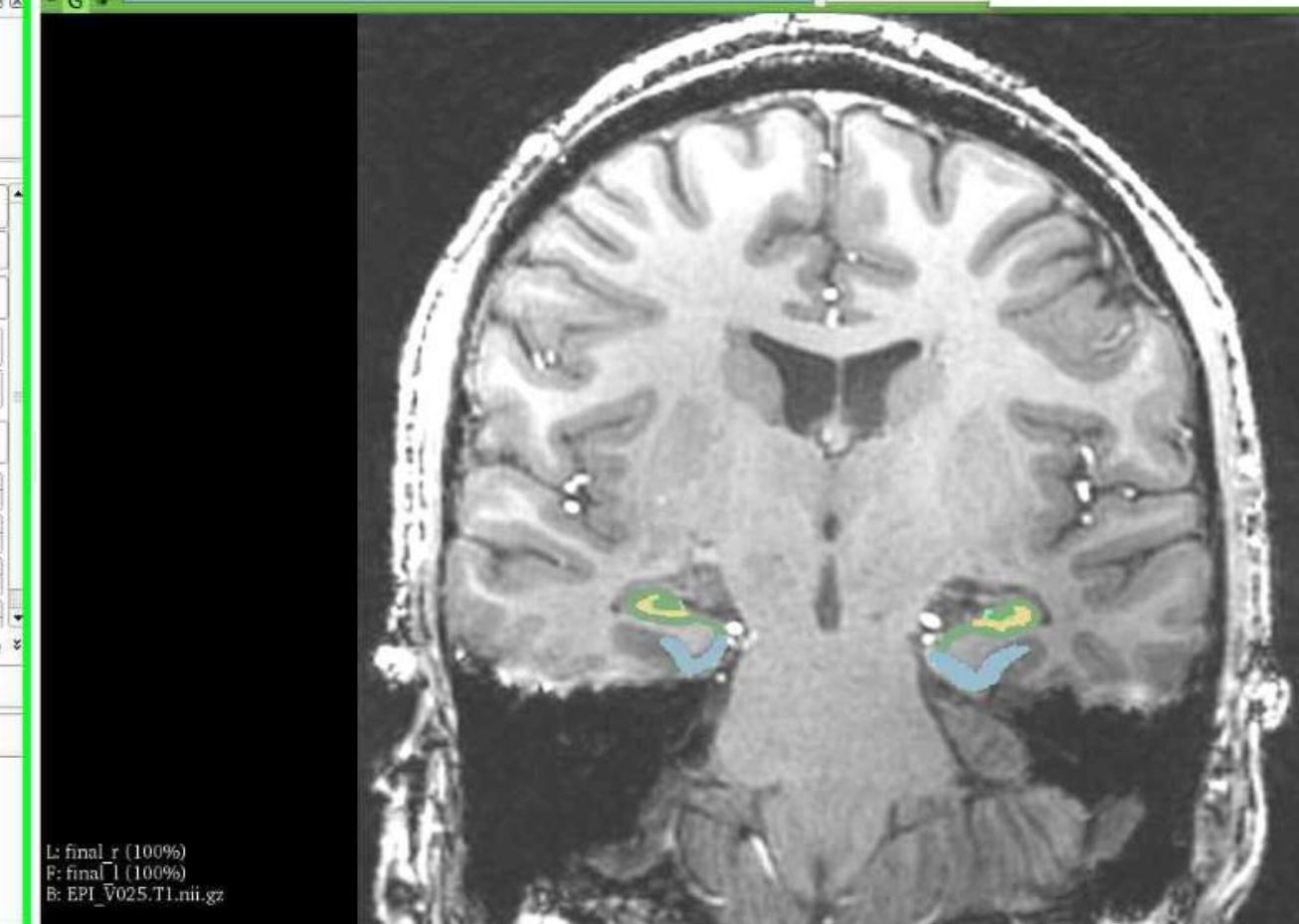
Status: Idle

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B



Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt;



Type here to search



5:30 PM ENG

7/19/2017 1

DATA DICOM NIFTI Modules: LaplaceModule

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_J

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 7

Max Iterations: 2417

Varies depending on  
distance between  
source and sink.

Status: Idle

Restore Defaults AutoRun

Cancel Apply

Data Probe

Show Zoomed Slice

L

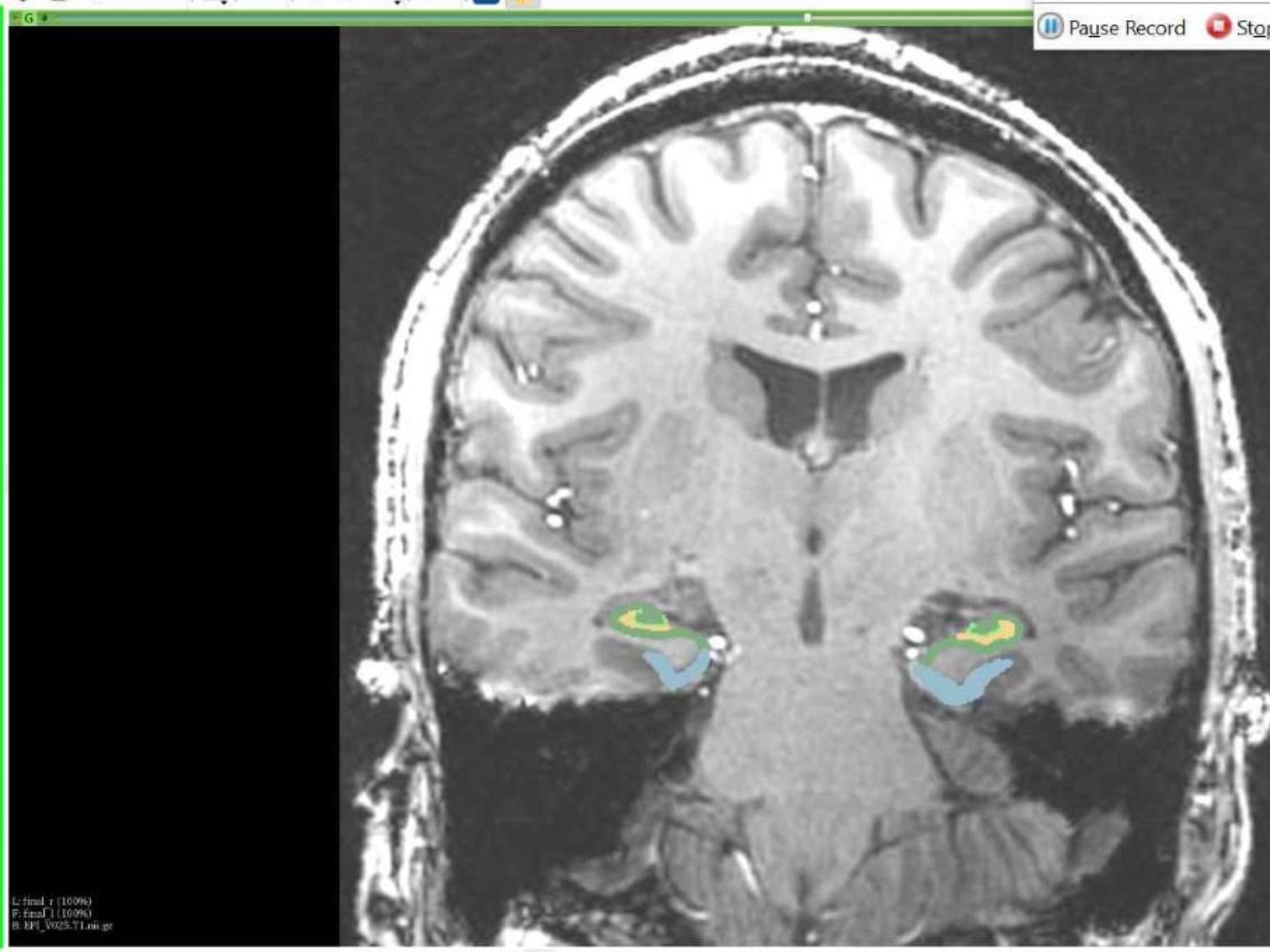
F

B

Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

>>>



Steps Recorder - Recording Now

Pause Record

Stop Record

Add Comment

DATA DICOM NIFTI Modules: LaplaceModule

3DSlicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_J

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 7

Max Iterations: 100

Status: Idle

Restore Defaults AutoRun

Cancel Apply

Data Probe

Show Zoomed Slice

L

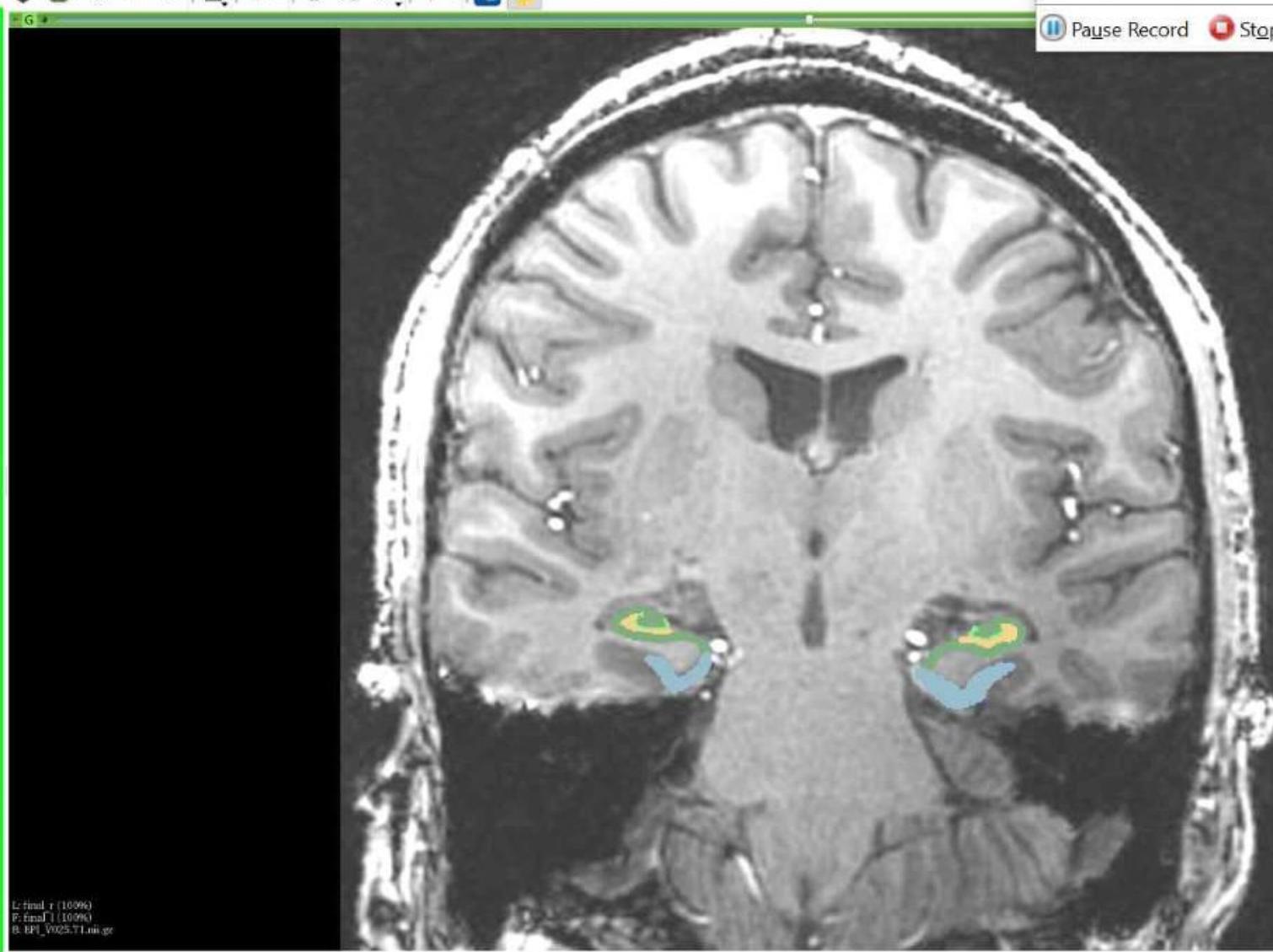
F

B

Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

>>>



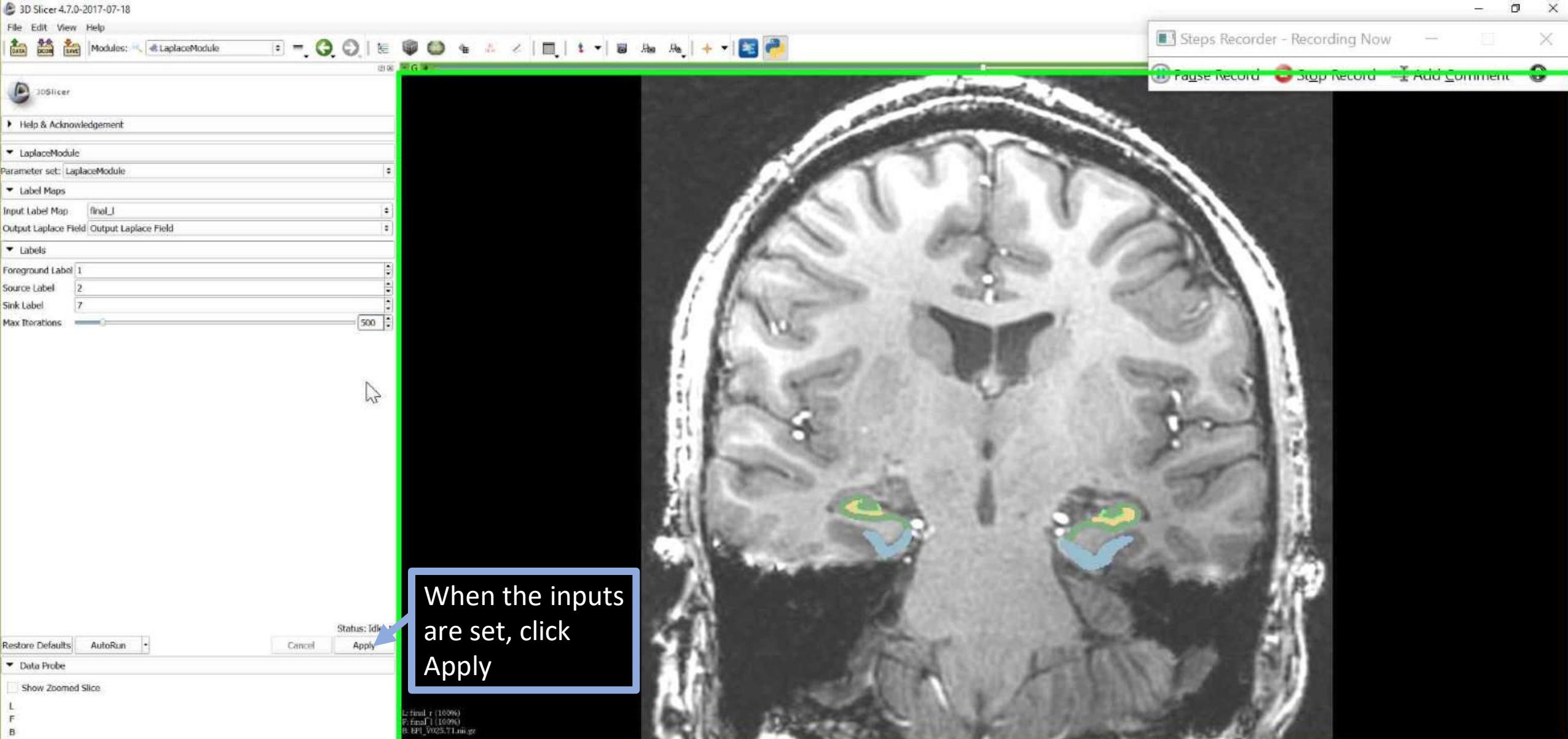
Steps Recorder - Recording Now

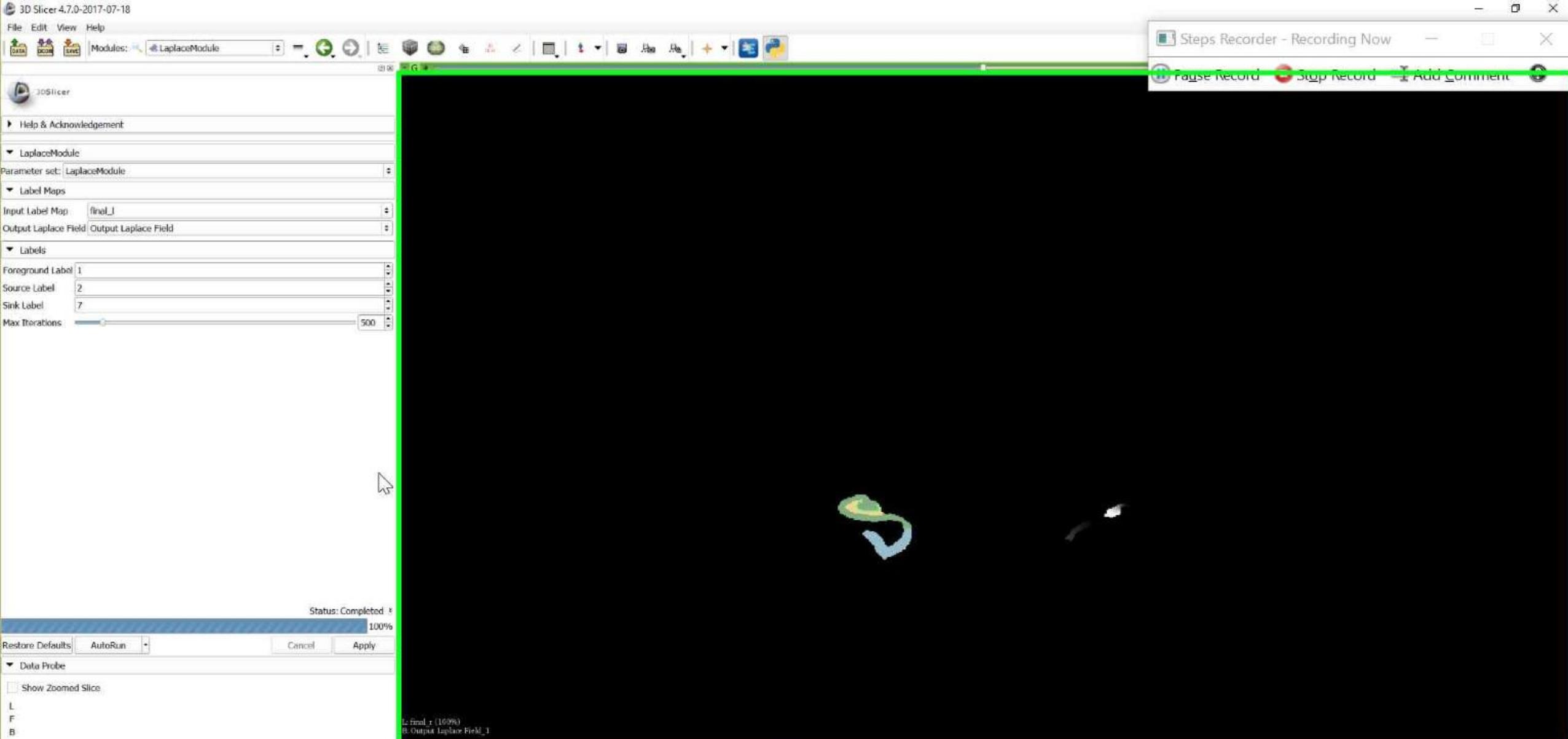
Pause Record Stop Record Add Comment

Type here to search



5:01 PM ENG 7/19/2017





# 3. Visualizing the output

laplaceutil.py - [C:\Users\jrogers\AppData\Local\Temp\laplaceutil.py] - laplaceutil.py - PyCharm 2017.1.4

File Edit View Navigate Code Refactor Run Tools VCS Window Help

laplaceutil.py

Project laplaceutil.py External Libraries

laplaceutil.py

No Python interpreter configured for the project

```
1 import slicer
2
3 # add to path: import sys
4 # sys.path.append('C:\Users\jrogers\Documents\LaplaceModule')
5 # import laplaceutil
6
7 def rainbowize(labelname):
8     mapNode = slicer.util.getNode(labelname)
9     mapDisplayNode = mapNode.GetDisplayNode()
10    mapDisplayNode.SetAndObserveColorNodeID('vtkMRMLColorTableNodeFullRainbow')
11    mapDisplayNode.AutoThresholdOff()
12    mapDisplayNode.SetThreshold(0.000001, 1)
13    mapDisplayNode.ApplyThresholdOn()
```

Steps Recorder - Recording Now

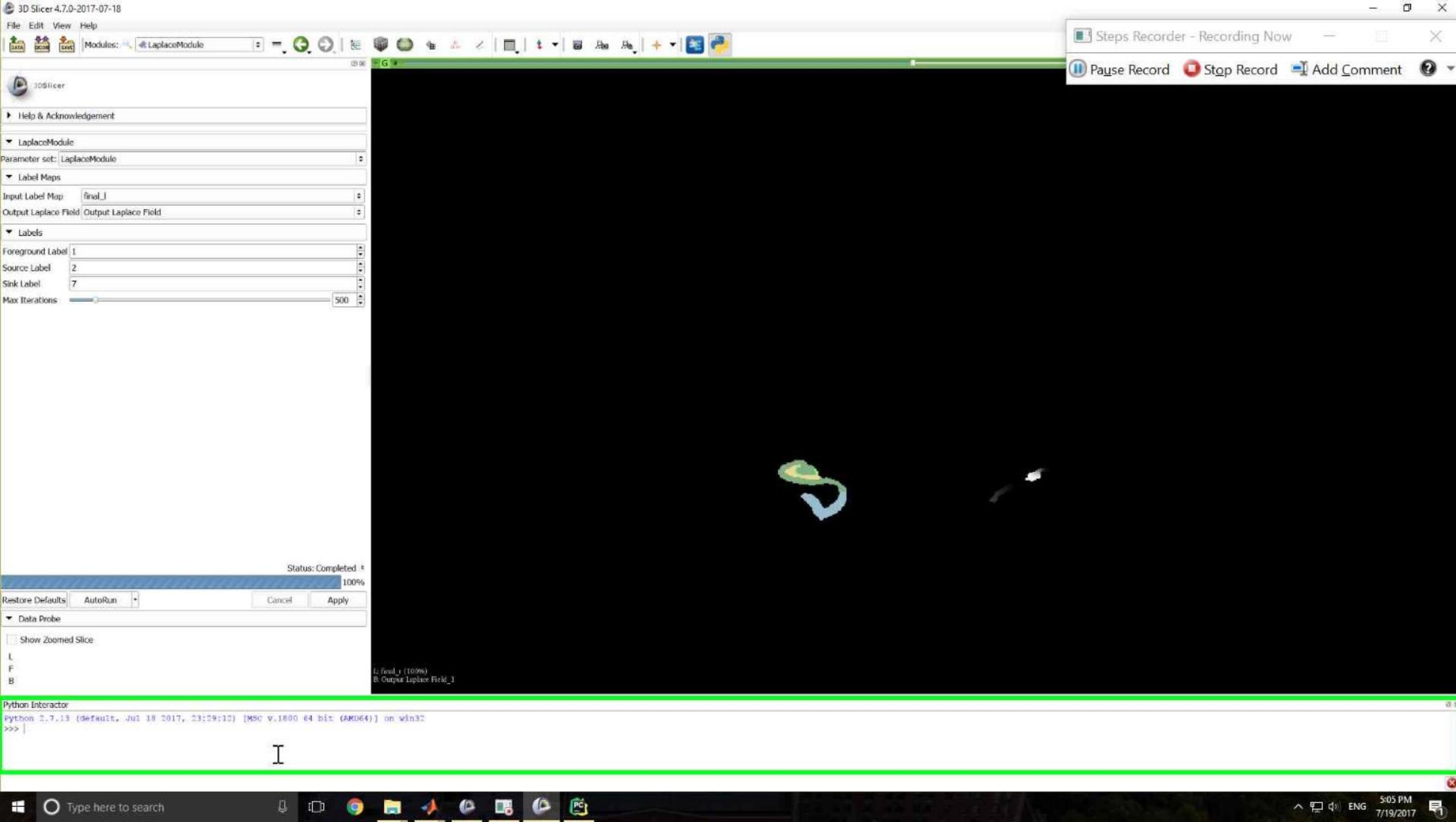
Pause Record Stop Record Add Comment

This optional bit of Python code will quickly change the visualization settings so the Laplace field is more easily visible. Any colour lookup table can be used but this function defaults to FullRainbow

Platform and Plugin Updates: PyCharm is ready to update. (moments ago)

Type here to search

1:1 CRLF: UTF-8: ENG 7/19/2017



File Edit View Help



Modules: LaplaceModule



3DSlicer

Python Interactor

Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32

&gt;&gt;&gt; import sys

&gt;&gt;&gt; I

B  
P: final\_I (100%)  
B: EPI\_V025.T1.nii.gz

Type here to search

5:53 PM  
7/19/2017

File Edit View Help



Modules: LaplaceModule



Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment



3DSlicer

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
>>> import sys
>>> sys.path.append('C:\Users\jrogers\Documents\LaplaceModule')
>>> I
```

B  
F: final\_I (100%)  
B: EPI\_V025.T1.nii.gz



Type here to search



5:53 PM ENG  
7/19/2017 1

File Edit View Help



Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

3DSlicer

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
>>> import sys
>>> sys.path.append('C:\Users\jrogers\Documents\LaplaceModule')
>>> import laplaceutil
>>> |
```

|

B  
F: final\_I (100%)  
B: EPI\_V025.T1.nii.gz



Type here to search



ENG

5:53 PM  
7/19/2017

File Edit View Help



Modules: LaplaceModule

Steps Recorder - Recording Now  
Pause Record Stop Record Add Comment

## Python Interactor

```
Python 2.7.13 (default, Jul 18 2017, 23:29:12) [MSC v.1800 64 bit (AMD64)] on win32
>>> import sys
>>> sys.path.append('C:\Users\jrogers\Documents\LaplaceModule')
>>> import laplaceutil
>>> laplaceutil.rainbowize('Output Laplace Field')
```

I

B  
P: final\_I (100%)  
B: EPI\_V025.T1.nii.gz

Type here to search

5:53 PM  
7/19/2017

ENG



3D Slicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_I

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 7

Max Iterations: 500

63

Coronal

final\_r

None

Output Laplace Field

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

Status: Completed 100%

Restore Defaults AutoRun Cancel Apply

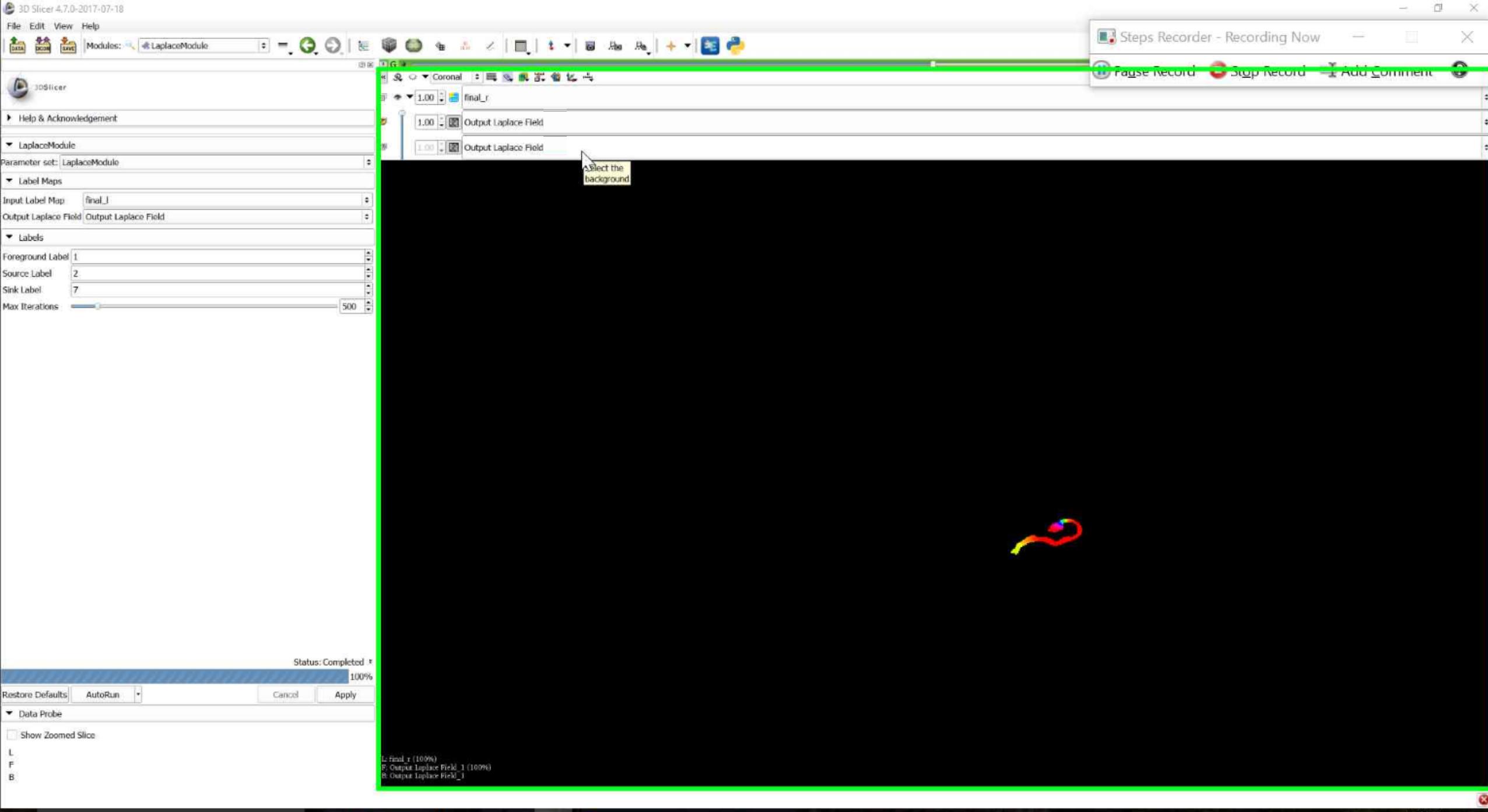
Data Probe

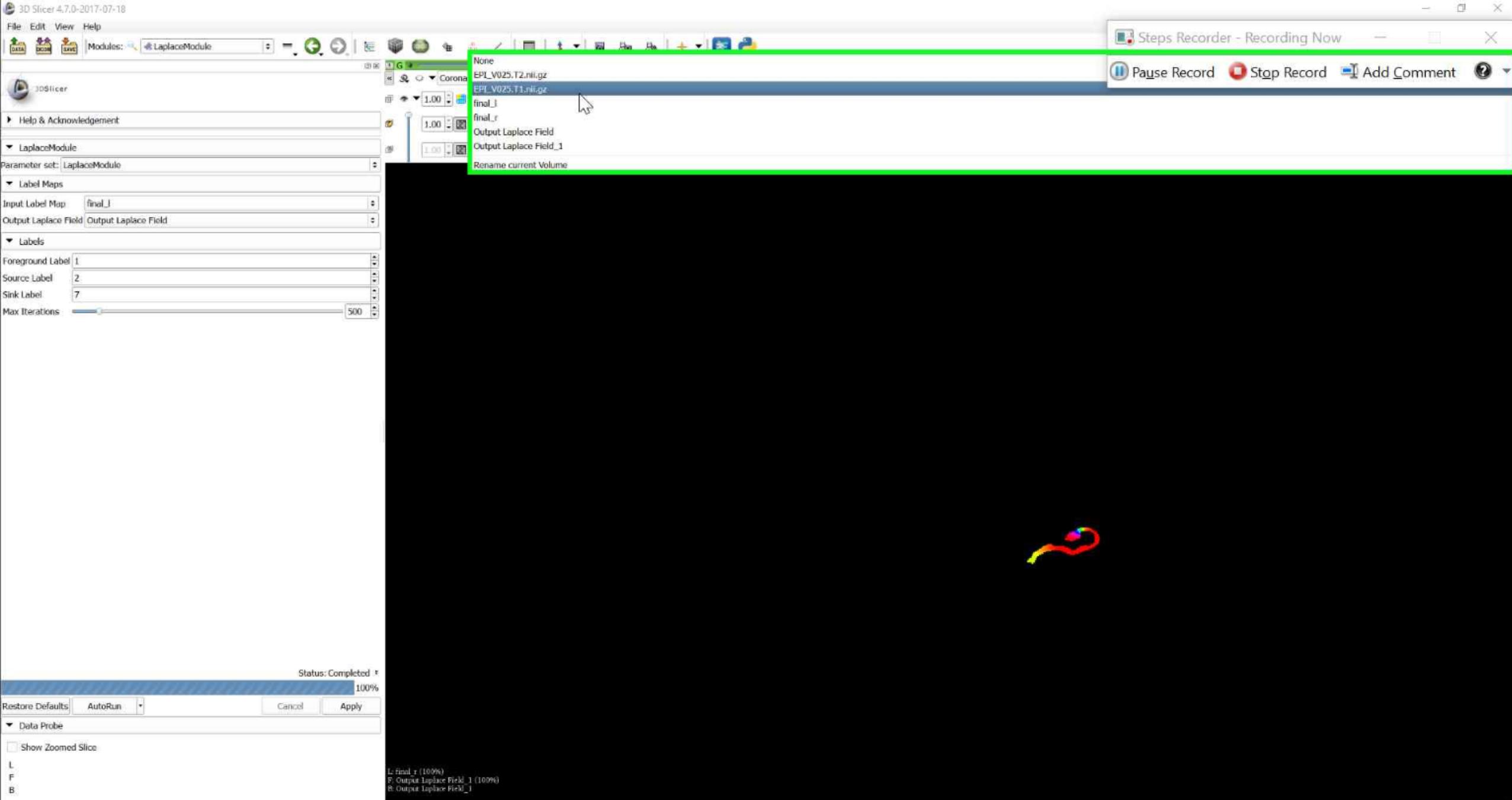
Show Zoomed Slice

L F B

L: final\_r (100%)  
R: Output Laplace Field\_r

The screenshot shows the 3D Slicer software interface. A green border highlights the 'LaplaceModule' panel on the left. Inside this panel, under the 'Labels' section, are fields for 'Foreground Label' (set to 1), 'Source Label' (set to 2), and 'Sink Label' (set to 7). A 'Max Iterations' slider is set to 500. The main workspace shows a coronal slice of a brain with a red and yellow segmented region. The status bar at the bottom indicates 'Status: Completed 100%'. The top right corner shows a 'Steps Recorder' window with buttons for 'Pause Record', 'Stop Record', and 'Add Comment'.





3D Slicer

Help & Acknowledgement

LaplaceModule

Parameter set: LaplaceModule

Label Maps

Input Label Map: final\_l

Output Laplace Field: Output Laplace Field

Labels

Foreground Label: 1

Source Label: 2

Sink Label: 7

Max Iterations: 500

Status: Completed 100%

Restore Defaults AutoRun Cancel Apply

Data Probe

Show Zoomed Slice

L F B

L: final\_r (100%)  
F: Output Laplace Field\_1 (100%)  
B: EPI\_V025.T1.nii.gz

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

This screenshot shows a coronal MRI slice of a brain within the 3D Slicer software interface. The slice displays various anatomical structures. Two specific regions in the basal ganglia area have been segmented and highlighted with colored overlays: one in green on the left side and one in red on the right side. The software's user interface includes a parameter panel on the left for the 'LaplaceModule' (set to 'Parameter set: LaplaceModule'), a status bar at the bottom indicating 'Status: Completed 100%', and a 'Steps Recorder' window at the top right showing the recording of steps. The overall background is white, and the brain image is grayscale.