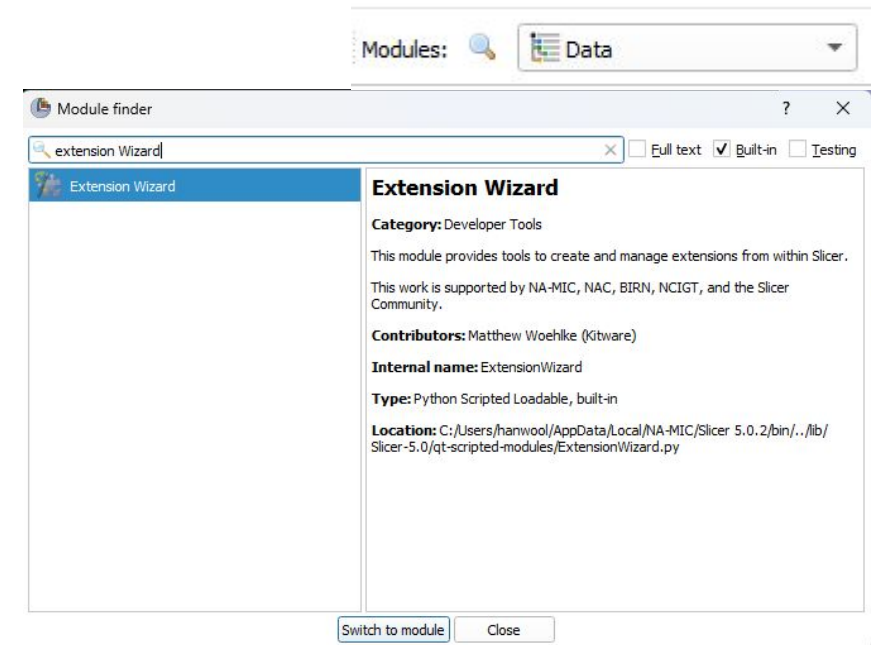


# EasySegmentation v5.6.2

## Tutorial

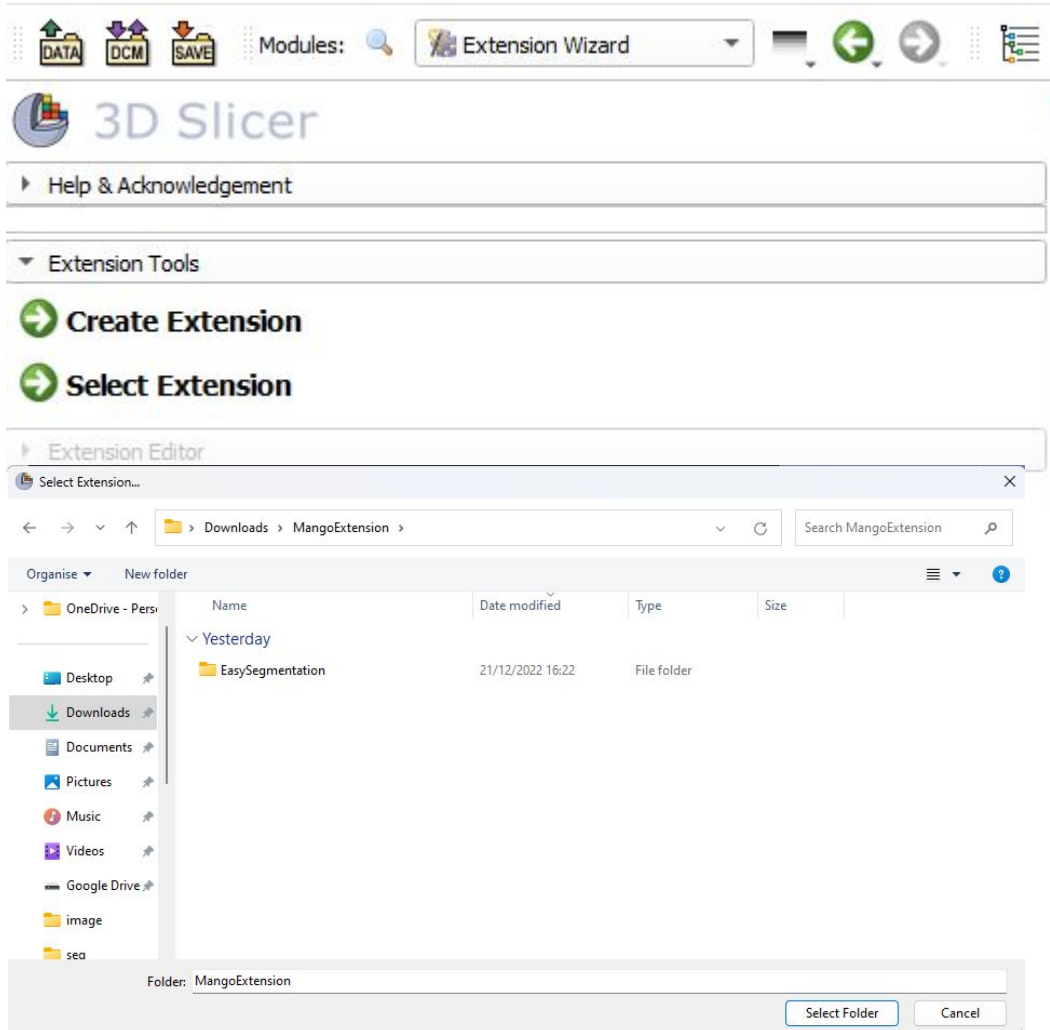
# How to import EasySegmentation Module

1. Download MangoExtensionV562 folder
  - You can use MangoExtensionV562 folder in the same folder with this tutorial.
2. Open Slicer
3. Find Extension Wizard Module in Module finder



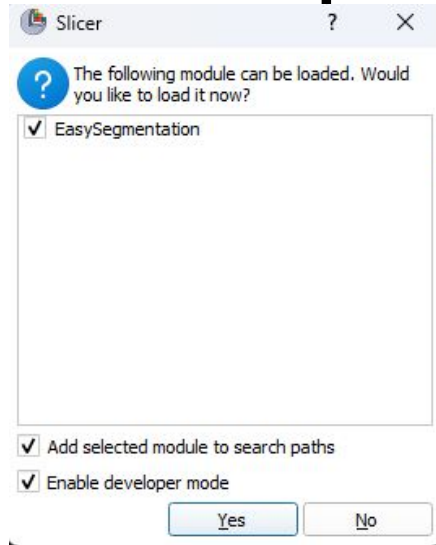
# How to import EasySegmentation Module

4. Click “Select Extension” button

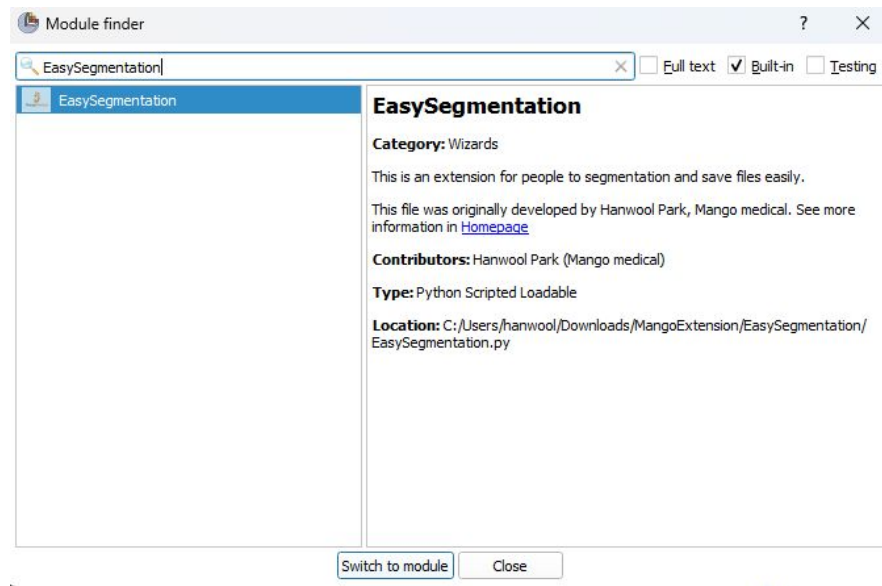


5. Select “MangoExtension” folder. (**Not EasySegmentation folder**)

# How to import EasySegmentation Module

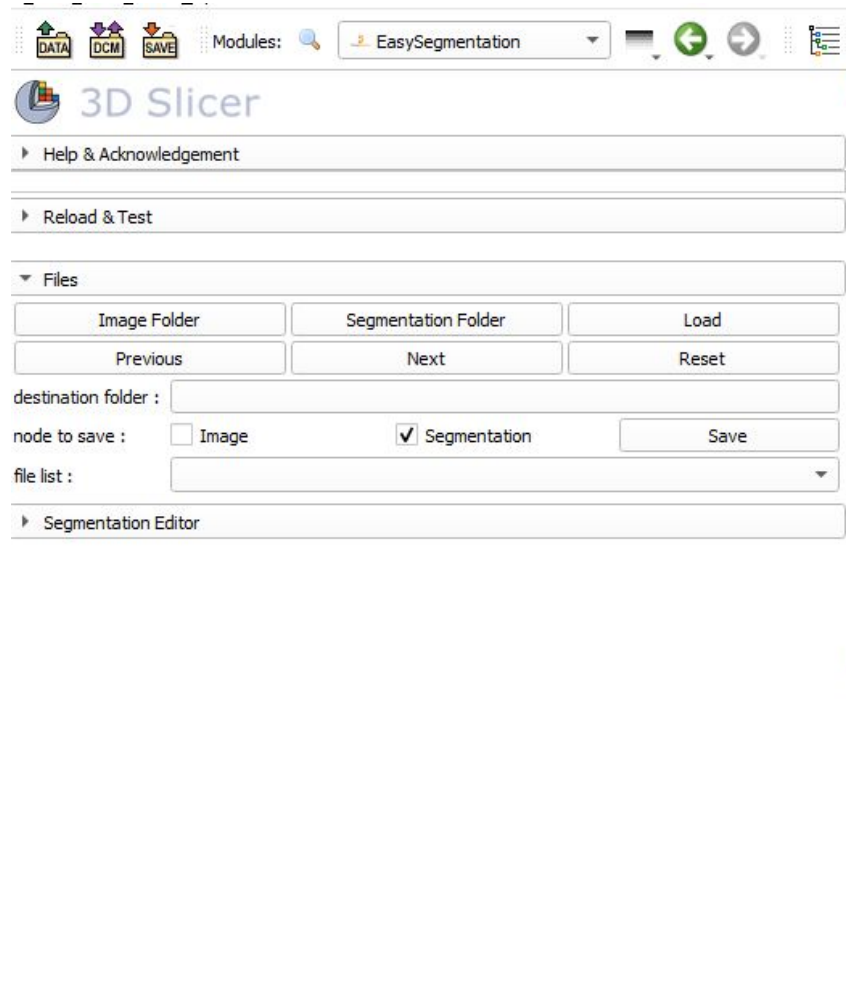


6. Click “Yes” button



7. Go to Module finder and search “EasySegmentation” module

# How to import EasySegmentation Module



8. If you can see this module, you succeed to import this module

# Menu

Files

Image Folder

Segmentation Folder

Load

Previous

Next

Reset

destination folder :

node to save :

☐ Image
 ☒ Segmentation
 

Save

suffix segmentation name :

\_seg

Apply Suffix Naming

file list :

ANON\_2022\_7\_6\_17\_26\_36\_115

Automatic Volume Rendering : ☐ On

Threshold

☐ On
 

Min: 0.1

Max: 100000

Apply

Volume Rendering

Preset: CT-AAA

Shift:

Display Volume Rendering

Segmentation Editor

Segmentation: ANON\_2022\_7\_6\_17\_26\_36\_115\_seg.nii.gz

Source volume: ANON\_2022\_7\_6\_17\_26\_36\_115

+ Add

- Remove

Show 3D

→

🖱️

🖼️

📏

📏

👁️

👁️

👁️

Name

Segment\_1

Segment\_2

Segment\_3

🔍

🔍

🔍

## • Files:

- **Image Folder :**
  - choose the folder includes image volume files
- **Segmentation Folder :**
  - choose the folder includes segmentation files corresponding image volume files
  - need to include image file name. Ex) image : **test1**.nii.gz , segmentation : **test1\_seg**.nii.gz
  - The file extensions can be .nii.gz, .nii or .nrrd
- **Load :**
  - after choose image and segmentation folder, we can load file in slicer
- **Previous :**
  - move previous file
- **Next :**
  - move next file
- **Reset :**
  - reset all setup this module
- **Destination folder :**
  - choose destination folder to save image or segmentation files
- **Node to save :**
  - you can choose to image or segmentation file to be saved
- **Save :**
  - save your file into destination folder
- **Suffix segmentation name :**
  - You can set the suffix name for segmentation file.
  - If you don't want to use suffix function, you can click "Apply Suffix Naming" button
- **File list :**
  - after you load files, you can see file list in combo box and you can click specific file.
- **Automatic Volume Rendering :**
  - You can check to load volume rendering view automatically
- **Threshold :**
  - When there is no segmentation data corresponding volume data, you can set up threshold values for new segmentation

# Menu

Files

Image Folder

Segmentation Folder

Load

Previous

Next

Reset

destination folder :

node to save :

☐ Image
☒ Segmentation

Save

suffix segmentation name :

\_seg

Apply Suffix Naming

file list :

ANON\_2022\_7\_6\_17\_26\_36\_115

Automatic Volume Rendering :

☐ On

Threshold

☐ On

Min: 0.1

Max: 100000

Apply

Volume Rendering

Preset: CT-AAA

Shift:

Display Volume Rendering

Segmentation Editor

Segmentation: ANON\_2022\_7\_6\_17\_26\_36\_115\_seg.nii.gz

Source volume: ANON\_2022\_7\_6\_17\_26\_36\_115

+ Add

- Remove

Show 3D

→

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Name

Segment\_1

Segment\_2

Segment\_3

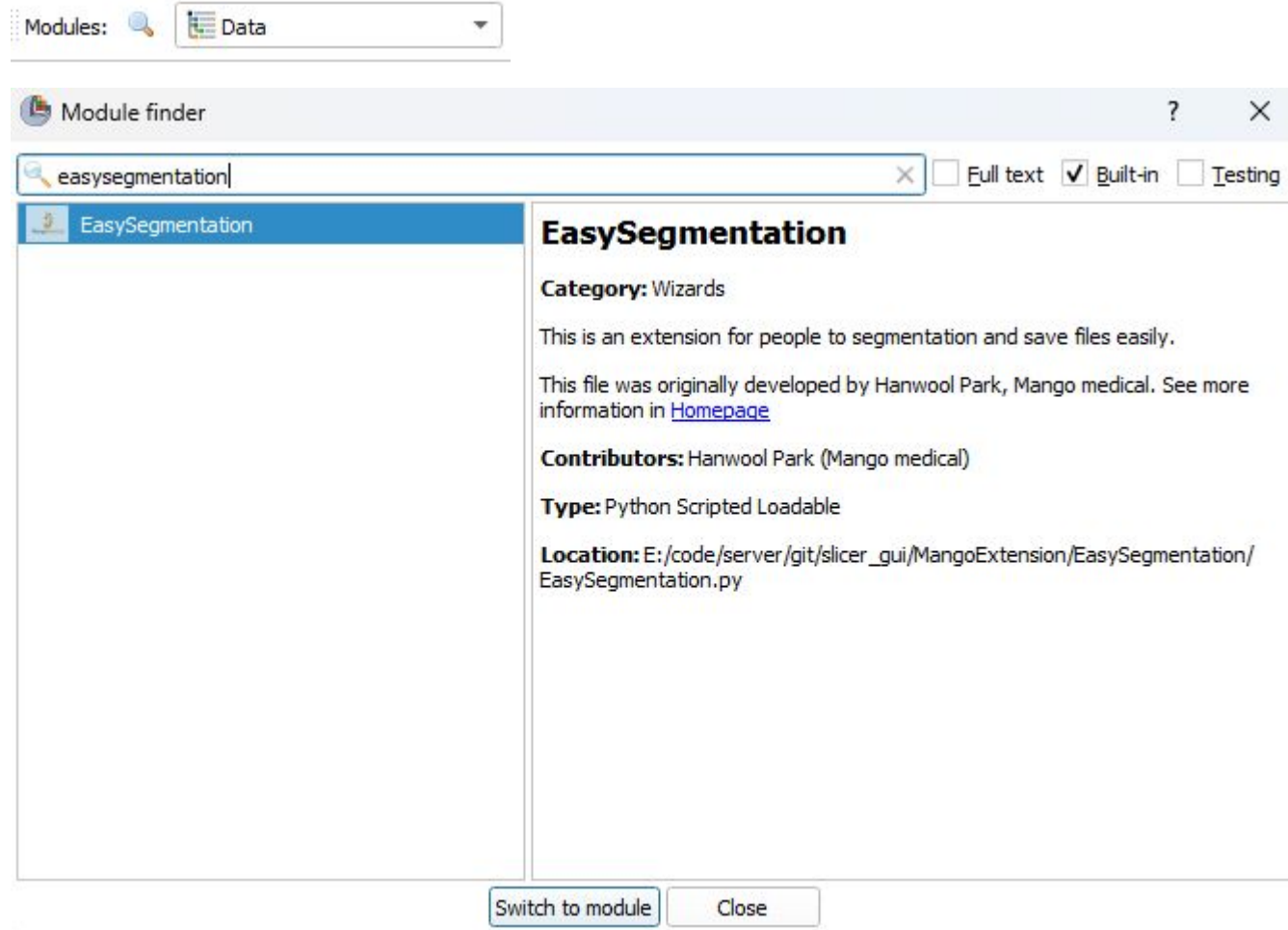
🔍

🔍

🔍

- **Volume Rendering:**
  - This is volume Rendering module. You can check information [here](#).
- **Segmentation Editor:**
  - This is Slicer Segmentation Editor module. You can check information [here](#).

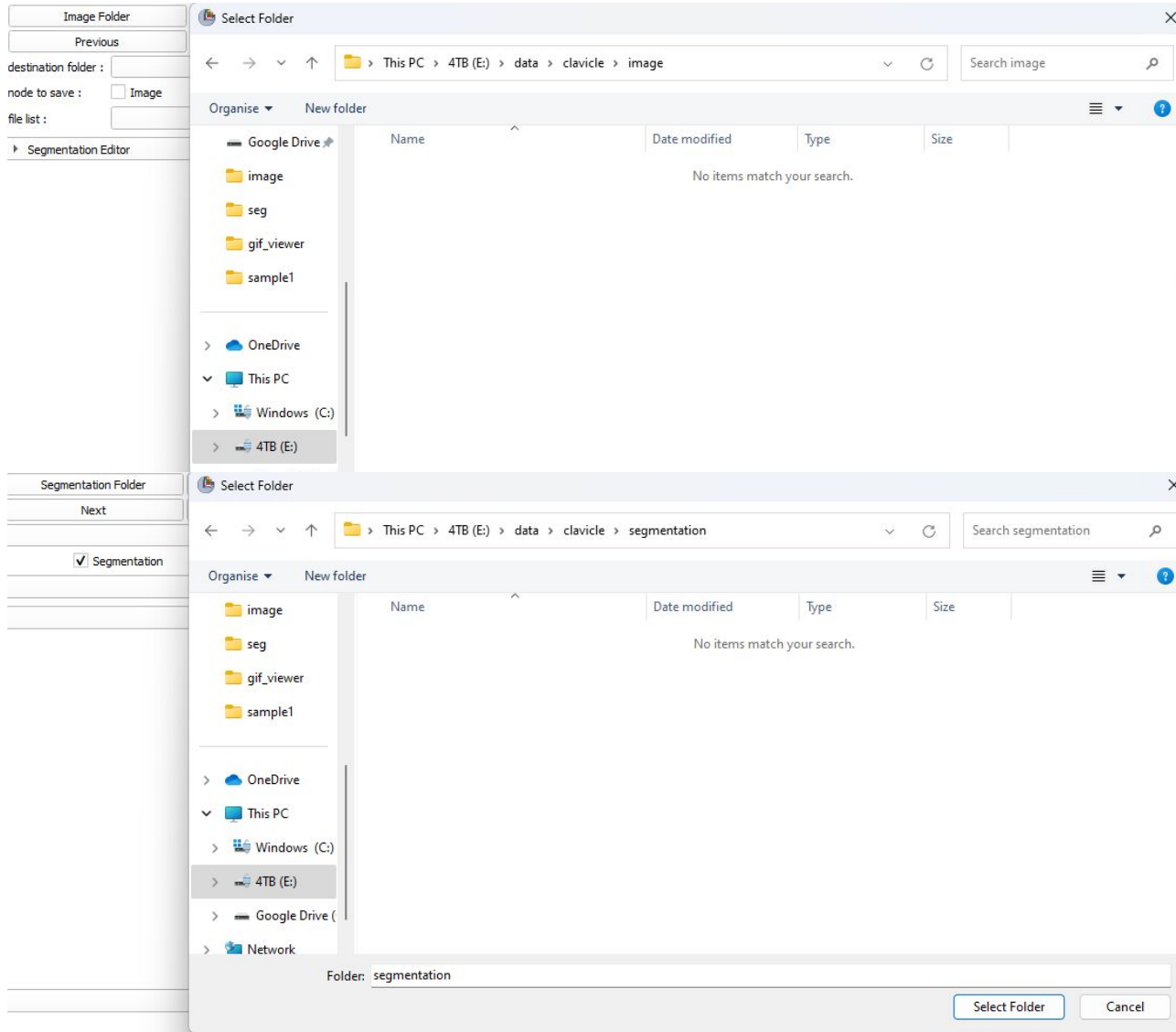
# How to use



Click Module finder on Toolbar  
and search Easysegmentation

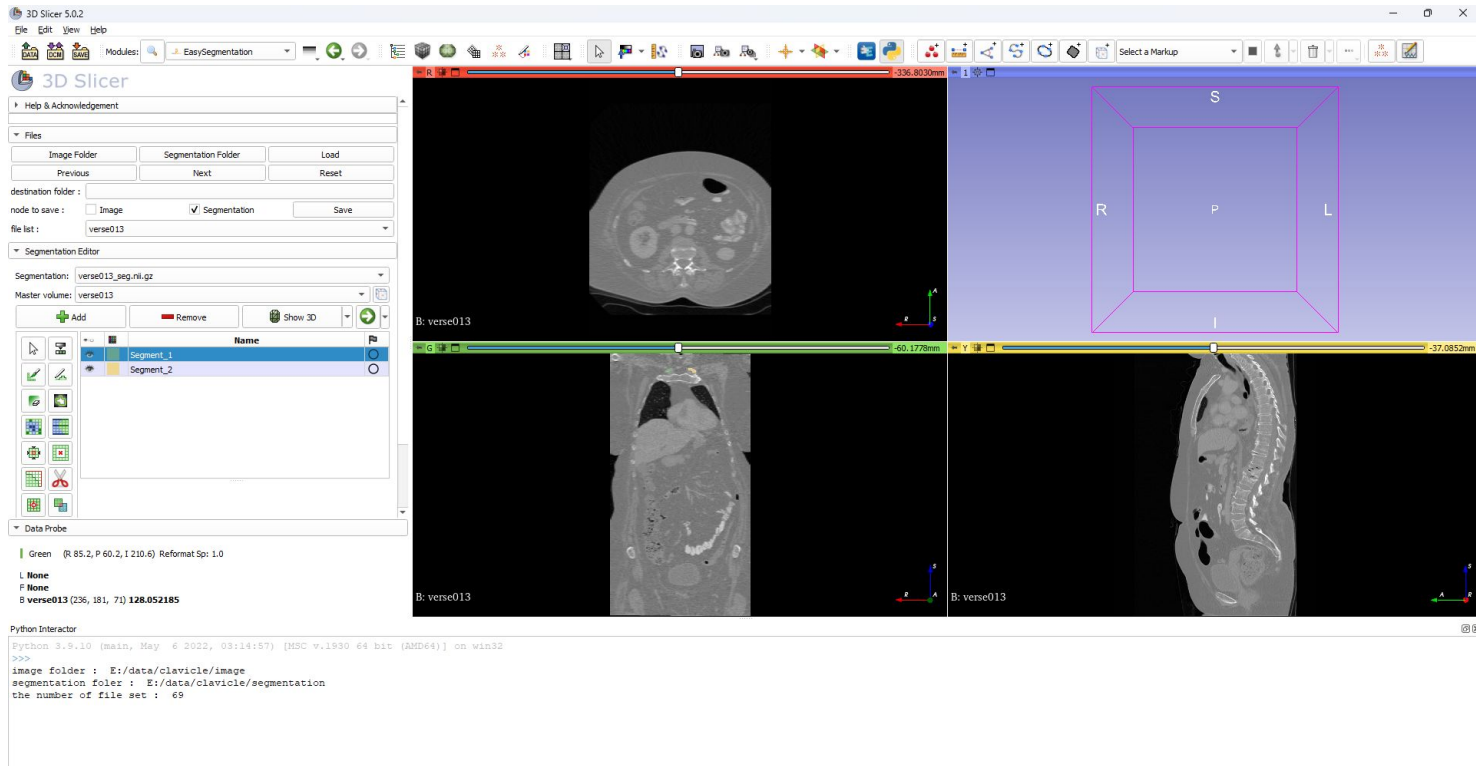


# How to use



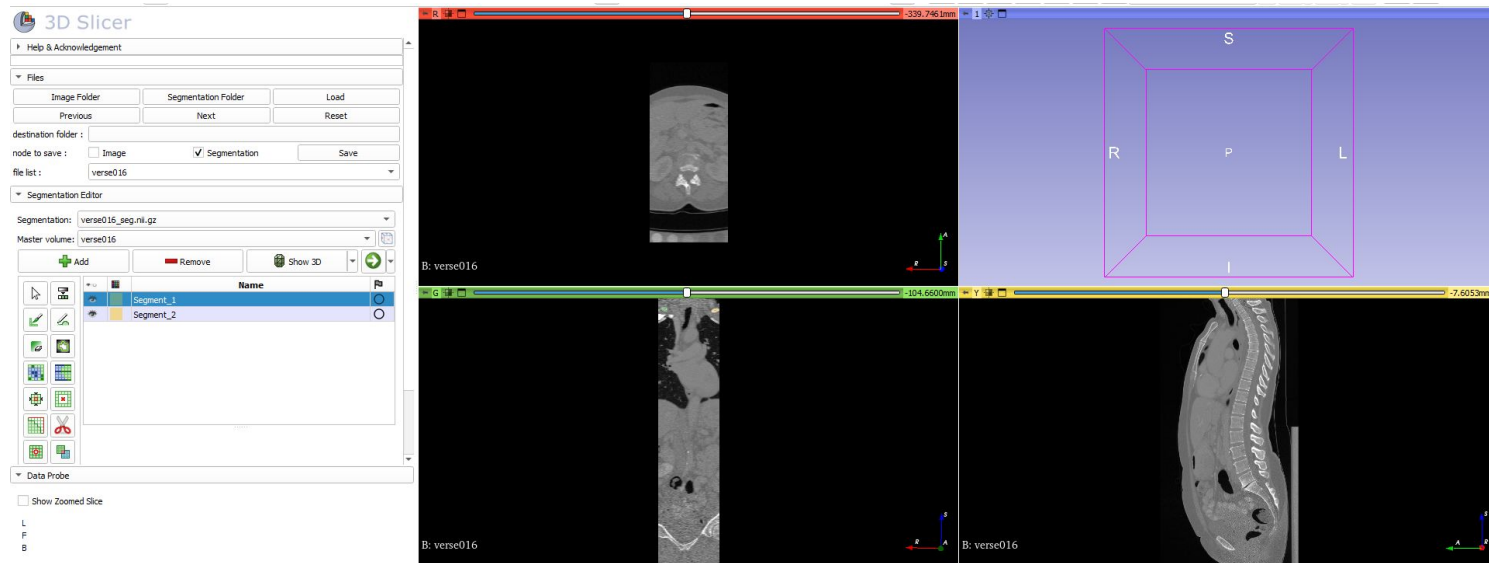
Choose image folder and  
segmentation folder

# How to use

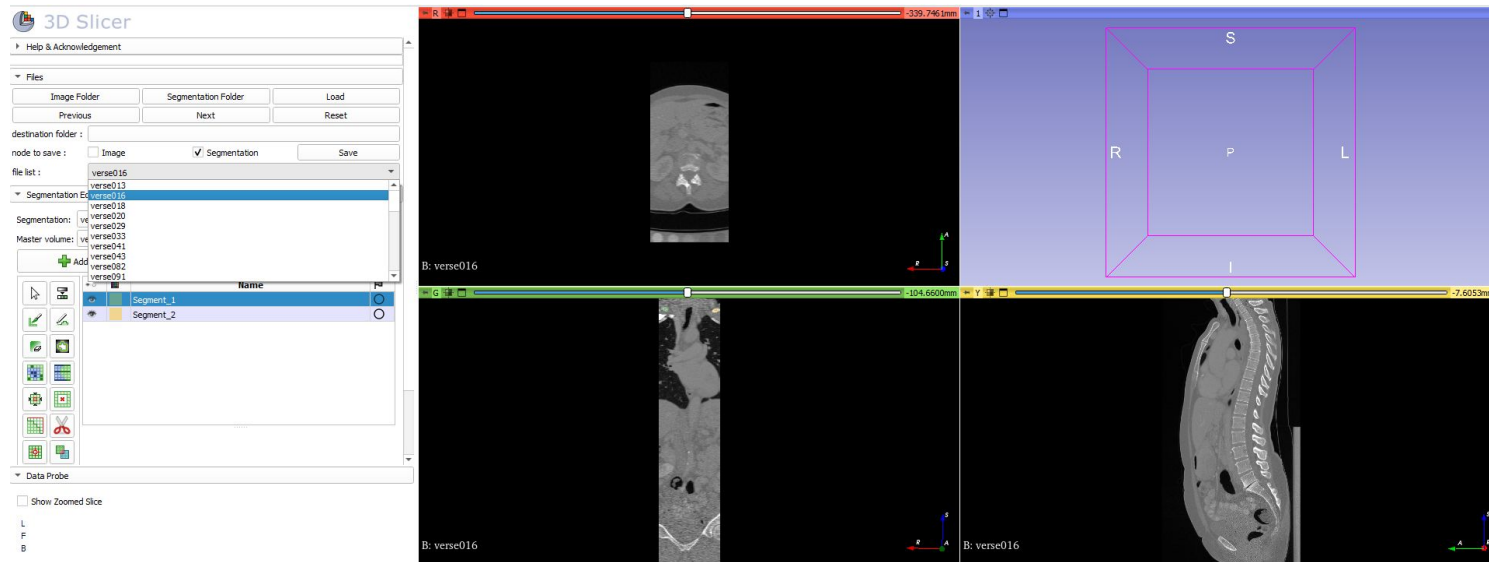


Click Load button. You can see how many files are found in Python Interactor.

# How to use

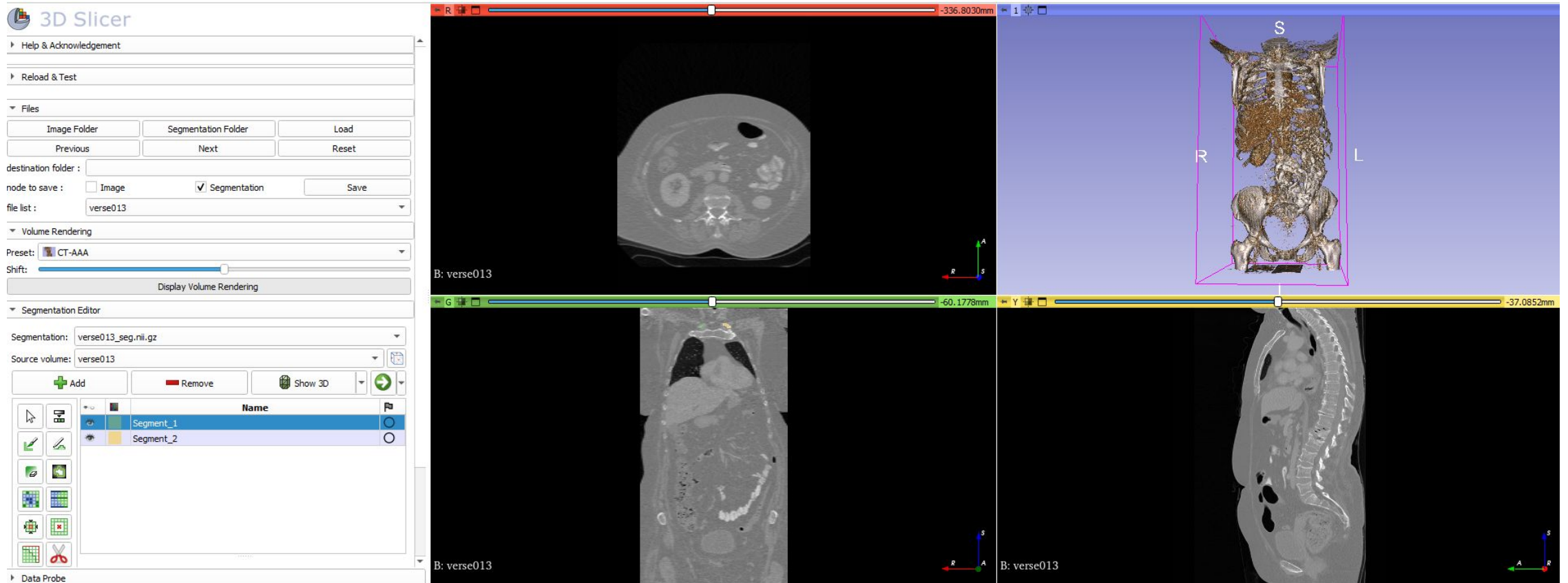


Click Next or Previous Button. You can move next or previous file.



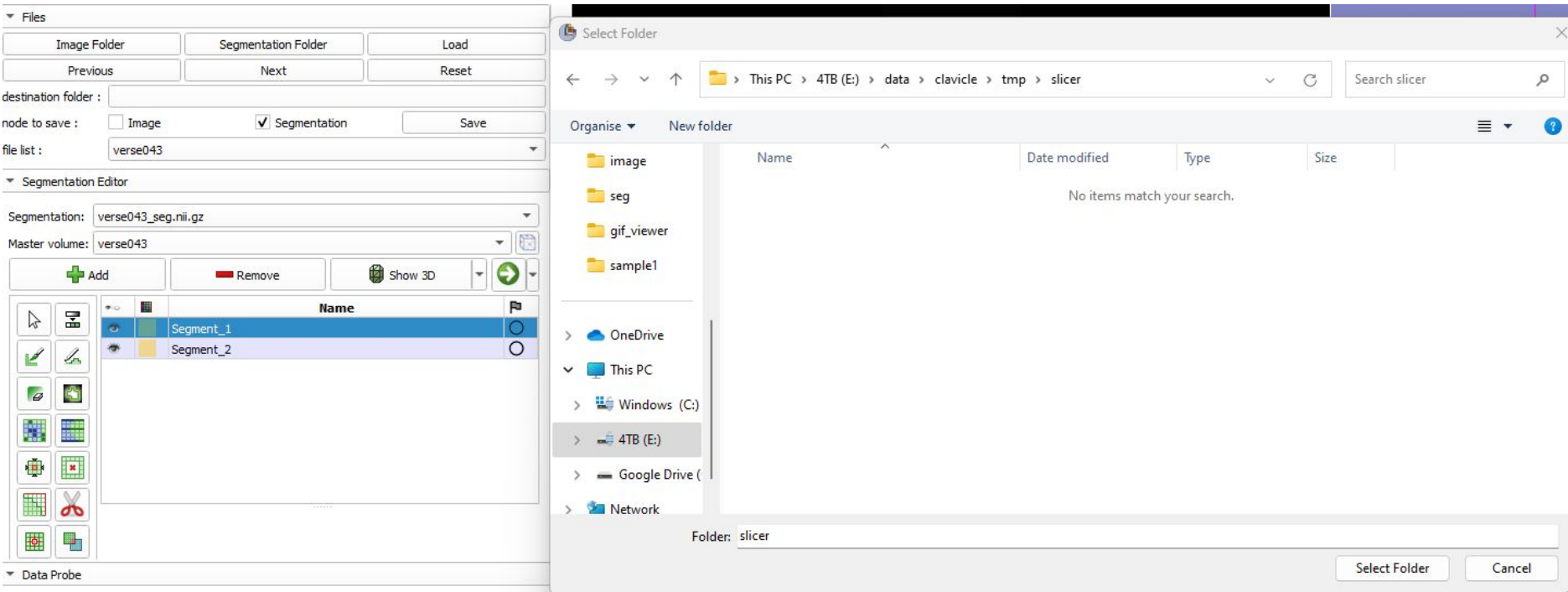
You can also click file list and choose specific file.

# How to use



You can see volume rendering view to click “Display Volume Rendering” button  
You can also check Preset to see different types of views

# How to use



To save modified files, you need to choose destination folder.

# How to use

▼ Files

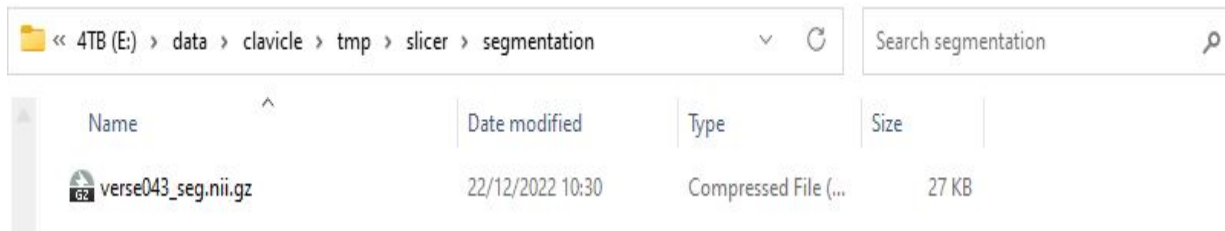
Image Folder	Segmentation Folder	Load
Previous	Next	Reset

destination folder :

node to save : ☐ Image ☒ Segmentation

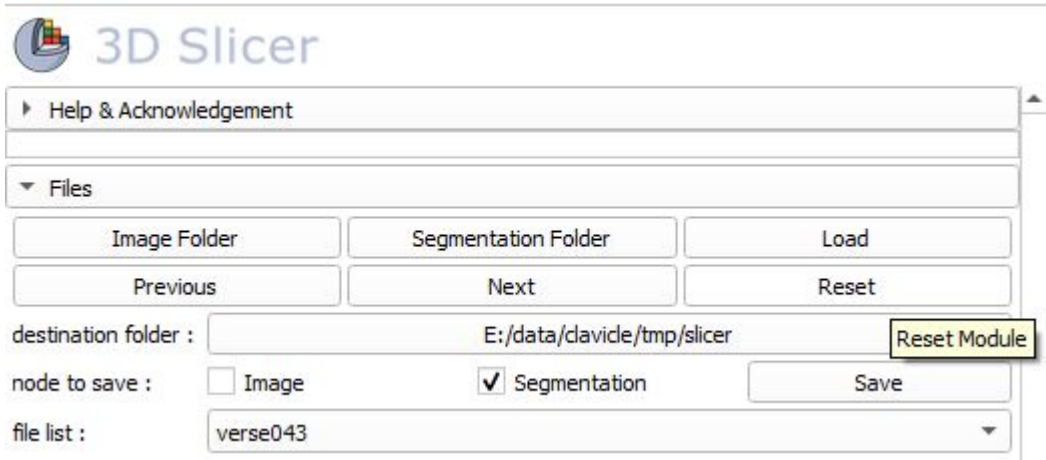
file list :

You can choose Image or Segmentation to save.



You can check save result into destination folder

# How to use



You can reset this module with Reset button.



Everything is reset. You can start module again

# Version Notes

- **Version 1.1**
  - fixed warning issues regarding deprecated functions
  - Now, all image data can be loaded without corresponding segmentation file. You can create your own segmentation now.
- **Version 1.2**
  - add volume rendering feature
- **Version 1.3**
  - add file extensions (nii.gz, nii or nrrd)
- **Version 1.4**
  - add automatic rendering volume checkbox
  - center the 3D view on the scene
- **Version 1.5**
  - Add threshold feature to create segmentation data when there is no segmentation data corresponding volume data
- **Version 1.6**
  - add suffix naming feature to save segmentation file with specific name



# Notes

- Build Slicer version : 5.2.1
- OS : Windows, Linux (I don't know it works in MacOS)
- If you have any problem, please write email to [hanwool@mangomedical.io](mailto:hanwool@mangomedical.io)