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Release Details

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Slicer 5.0

Slicer 5.0.1

- **Date:** 2022/05/01
- [fff8c39ec7fcdeadbea8abf60b4220ab5821b8f0](#), v.5.0.1

Slicer 5.0.1

- Date: 2022/05/01
- [fff8c39ec7fcdeadbea8abf60b4220ab5821b8f0](#), v5.0.1
- Computed revision: 30814

Slicer 5.0.0

- Date: 2022/04/29
- [443372b68a5ac2404503a0ab3af2f567263fb26b](#), v5.0.0
- Computed revision: 30811

Slicer 4.11

Slicer 4.11.20210226

- Date: 2021/02/26
- [7a593c83780166ff9f43f002302e431c9deac06d](#), v4.11.20210226
- Computed revision: 29738

Slicer 4.11.20200930

- Date: 2020/09/30
- [002be18086c3054bb834dd674401ba624629e4f6](#), v4.11.20200930
- Computed revision: 29402

Slicer 4.10

- Release branch:
 - Archived repositories:
 - Svn: <http://viewvc.slicer.org/viewvc.cgi/Slicer4/branches/Slicer-4-10/>
 - Git: <https://github.com/Slicer/SlicerGitSVNArchive/tree/master-410>

Slicer 4.10.2

- Date: 2019/05/16
- [17a1edfe600430d25ee025868a11d84063ff6522](#), v4.10.2
 - Archived repositories:
 - Svn: [28257](#)
 - Git: [1548fde788ae39180b5daf54389ab45b94074aa0](#), v4.10.2

Slicer 4.10.1

- Date: 2019/01/15
- [c69d5d7d1c07955fec12e255df0df30ee77984d3](#), v4.10.1
 - Archived repositories:
 - Svn: [27931](#)
 - Git: [7d48c57524e798f167653b3af281995c7d70375dt](#), v4.10.1

Slicer 4.10.0

- Date: 2018/10/17
- [b75e354caf774b4f439d7614c791e7d8337eb1d9](#), v4.10.0
 - Archived repositories:
 - Svn: [27501](#)
 - Git: [c99aa7619afa679c6fcd6f599785f73d5b3484ae](#), v4.10.0
- Contributors

```
$ git shortlog -s -n v4.8.0..v4.10.0
482 jcfir
233 lassoon
```

■ Contributors

```
$ git shortlog -s -n v4.8.0..v4.10.0
482 jcfr
233 lassoan
33 pieper
33 pinter
28 cpinter
20 ihnorton
10 agirault
8 johan.andruejol
```

■ Impact

```
$ git diff --stat v4.8.0..v4.10.0 | tail -1
1223 files changed, 54094 insertions(+), 53717 deletions(-)
```

Slicer 4.8

■ Release branch:

■ Archived repositories:

- Svn: <http://viewvc.slicer.org/viewvc.cgi/Slicer4/branches/Slicer-4-8/>
- Git: <https://github.com/Slicer/SlicerGitSVNArchive/tree/master-48>

Slicer 4.8.1

■ Date: 2017/12/19

■ [4fce200593a0abf162e53168ba83b31083954715](#), v4.8.1

■ Archived repositories:

- Svn: [26813](#)
- Git: [94a26e017a3aba4a97c17182ffb913d872f897bc](#), v4.8.1

Slicer 4.8.0

■ Date: 2017/10/18

■ [b0d63b8ed0c68e1aa44d4c28e8adc741ea67ed58](#), v4.8.0

■ Archived repositories:

- Svn: [26489](#)
- Git: [944c364a6dd95f1e57dca9ee6b5e1878951de184](#), v4.8.0

■ Contributors

```
$ git shortlog -s -n v4.6.0..v4.8.0
437 jcfr
354 lassoan
146 pinter
51 pieper
17 agirault
12 ihnorton
9 johan.andruejol
7 fedorov
3 memolens
1 bpaniagua
1 cpinter
1 naucoin
```

■ Impact

```
$ git diff --stat v4.6.0..v4.8.0 | tail -1
1831 files changed, 127780 insertions(+), 51570 deletions(-)
```

Slicer 4.6

■ Release branch:

■ Archived repositories:

- Svn: <http://viewvc.slicer.org/viewvc.cgi/Slicer4/branches/Slicer-4-6/>

- Release branch:
 - Archived repositories:
 - Svn: <http://viewvc.slicer.org/viewvc.cgi/Slicer4/branches/Slicer-4-6/>
 - Git: <https://github.com/Slicer/SlicerGitSVNArchive/tree/master-46>

Slicer 4.6.2

- Date: 2016/11/08
- [ed5e5c2439d0a4ba4e30dbd3e67154371562b737](#), v4.6.2
 - Archived repositories:
 - Svn: [25516](#)
 - Git: [ffff494cbacadbb7ec23fb0511ad77e96803fdd0](#), v4.6.2

Slicer 4.6.1

This release was skipped. See <http://slicer-devel.65872.n3.nabble.com/Patch-release-4-6-2-Re-Patch-release-4-6-1-tt4037549.html>

Slicer 4.6.0

- Date: 2016/10/13
- [d2b254463e29869ea4330fd81c7000816f8ea191](#), v4.6.0
 - Archived repositories:
 - Svn: [25441](#)
 - Git: [a4f5de2aef5ef7efe5f11e152c13e3e368bb19a2](#), v4.6.0
- Contributors

```
$ git shortlog -s -n v4.5.0-1..v4.6.0
367  jcfr
185  lassoan
49   pinter
33   memolens
18   pieper
15   johan.andruejol
13   naucoin
11   fedorov
6    alex
```

- Impact

```
$ git diff --stat v4.5.0-1..v4.6.0 | tail -1
1627 files changed, 91685 insertions(+), 65032 deletions(-)
```

Slicer 4.5

Slicer 4.5.0-1

- Date: 2015/11/12
- [130dbc852a40d14ed855af662eb302323cdb9376](#), v4.5.0-1
 - Archived repositories:
 - Svn: [24735](#)
 - Git: [46a42f4fc6e0528989e392c8b08bb8edc39eeecb](#), v4.5.0-1
- Contributors

```
$ git shortlog -s -n v4.4.0..v4.5.0-1
626  jcfr
87   lassoan
69   naucoin
51   pinter
39   pieper
29   fedorov
27   alexy
21   memolens
4    johan.andruejol
2    millerjv
2    pohl
```

```
29 fedorov
27 alexy
21 mamolens
4 johan.andruejol
2 millerjv
2 pohl
1 cpinter
1 finetjul
```

■ Impact

```
$ git diff --stat v4.4.0..v4.5.0-1 | tail -1
1168 files changed, 39591 insertions(+), 33873 deletions(-)
```

Slicer 4.4

Slicer 4.4.0

- Date: 2014/11/02
- 4.4.0 Revisions
- [3ea991538a6cb687753067c84d3e57dd7930458a](#), v4.4.0
 - Archived repositories:
 - Svn: [23774](#)
 - Git: [ec65caed793f1c5ca1d96e06e4fd8d4a8a24d5db](#), v4.4.0
- Contributors

```
$ git shortlog -s -n v4.3.0..v4.4.0
693 jcfrr
161 mwoehlke
86 naucoin
73 pieper
65 finetjul
36 alexy
30 lassoan
24 pohl
22 pinter
17 fedorov
5 hjohnson
2 inorton
2 mccormic
2 millerjv
```

■ Impact

```
$ git diff --stat v4.3.0..v4.4.0 | tail -1
2447 files changed, 110725 insertions(+), 92113 deletions(-)
```

Slicer 4.3

Slicer 4.3.1-1

- Date: 2013/11/14
- 4.3.1-1 Revisions
- NA
 - Archived repositories:
 - Svn: [22704](#)
 - Git: [3024ed86d1f4635f35e88c9fc5409d94d7e1ded0](#)

Slicer 4.3.1

- Date: 2013/10/04
- 4.3.1 Revisions
- [65c69986a9996be5a54b16cbef12e32c03e6e4c9](#), v4.3.1
 - Archived repositories:
 - Svn: [22599](#)
 - Git: [3024ed86d1f4635f35e88c9fc5409d94d7e1ded0](#)

- ```
$ git diff --stat v4.3.0..v4.3.1 | tail -1
214 files changed, 3202 insertions(+), 1887 deletions(-)
```

- Date: 2013/09/04
- 4.3.0 Revisions
  - [85ff8dcf0a5c1eb604df8a7c6a4238b197bdd298](#), v4.3.0
  - Archived repositories:
    - Svn: [22408](#)
    - Git: [a1f6594fdb9d7b5400253c828302b25df2083532](#), v4.3.0
- Contributors

- Impact

```
$ git diff --stat v4.2.0..v4.3.0 | tail -1
2193 files changed, 122562 insertions(+), 85483 deletions(-)
```

Slicer 4.2.2-1

- Slicer 4.2.2

- 7

- Date: 2012/12/07
- 4.2.2 Revisions
- [70d6d2854f9f1b0951705fdd0af8dfd7b7413ab6](#), v4.2.2
- Archived repositories:
  - Svn: [21508](#)
  - Git: [8ea8cf733888ca359605ef590b884f4df702675b](#), v4.2.2

## Slicer 4.2.1

- Date: 2012/11/16
- 4.2.1 Revisions
- [d6cbe3464c0f250e0e6711213360b294fa86f516](#), v4.2.1
- Archived repositories:
  - Svn: [21438](#)
  - Git: [e797ddf5792cba435ef3f4a5dd73e8f2e9f06a3d](#), v4.2.1

## Slicer 4.2.0

- Date: 2012/10/31
- 4.2.0 Revisions
- [bc6ed78e09ad9785f3c5702a75245bb51168fbd1](#), v4.2.0
- Archived repositories:
  - Svn: [21298](#)
  - Git: [dfe6ab0a0b7f76087f968cffe6dacefd22a4c446](#), v4.2.0
- Contributors

```
$ git shortlog -s -n v4.1.0..v4.2.0
343 jcfr
226 finetjul
200 pieper
106 naucoin
59 fedorov
49 alexy
44 millerjv
39 demian
33 benjamin.long
27 mccormic
25 hjohnson
19 sankhesh
16 Michael.jeulinl
12 christopher.mullins
10 pinter
10 pohl
9 vrnova
8 inorton
4 ungi
3 lorensen
2 joe.snyder
2 lassoon
2 tokuda
```

- Impact

```
$ git diff --stat v4.1.0..v4.2.0 | tail -1
1833 files changed, 90186 insertions(+), 45562 deletions(-)
```

## Slicer 4.1

### Slicer 4.1.1-1

- Date: 2012/06/04
- 4.1.1-1 Revisions
- [67c38818420571e401f8d83046c8a35777a4401c](#)
- Archived repositories:
  - Svn: [20318](#)
  - Git: [755168ae7320e4cac1ab19735d6b400ab21d153b](#)

- Archived repositories:
  - Svn: [20318](#)
  - Git: [755166ae7320e4cac1ab19735d6b400ab21d153b](#)

Revision 20318 was used as the base to create the Windows packages officially associated with the 4.1.1 release. Release 4.1.1-1 was created in June 2021 for the sole purpose of organizing packages on <https://slicer-packages.kitware.com/>

## Slicer 4.1.1

- Date: 2012/06/01
- 4.1.1 Revisions
- [15c2e01d57977b72ccb6e31be9b7016f67a2e90c](#), v4.1.1
  - Archived repositories:
    - Svn: [20313](#)
    - Git: [6e4cedd9889d4939185decfee50e2a5bf270a5b6](#), v4.1.1
- Contributors - Since all commits have been back-ported, in the original authorship has been lost.

```
$ git shortlog -s -n 347ac58..v4.1.1
118 jcfr
```

### ■ Impact

```
$ git diff --stat 347ac58..v4.1.1
506 files changed, 14426 insertions(+), 12192 deletions(-)
```

- Changes
  - [ChangeLog-Slicer-4.1.1.txt](#)
  - Summary
    - Extensions Manager fixes
    - Extensions build system fixes
    - Documentation update
- Mantis permalinks
  - 39 [Issues resolved](#) / 39 issue targeted

## Slicer 4.1.0

- Date: 2012/04/12
- 4.1.0 Revisions
- [dcd1305a651d23677a8f39d86b4e1af1497f2da6](#), v4.1.0
  - Archived repositories:
    - Svn: [19886](#)
    - Git: [cdc4b6cdd5adebaba4e8d29a0ab62af200f56b91](#), v4.1.0
    - RC3 Svn: [19843](#)
    - RC2 Svn: [19693](#)
    - RC1 Svn: [19609](#)
- Contributors

```
$ git shortlog -s -n 401..410
349 jcfr
184 finetjul
76 pieper
51 naucoin
41 millerjv
38 fedorov
29 demian
17 hjohnson
17 pohl
8 alexy
7 wjp@bwh.harvard.edu
6 vrnova
6 Michael.jeulin1
5 inorton
5 haehn
3 joe.snyder
3 tokuda
2 lorensen
1 dpace
```

```
5 naenn
3 joe.snyder
3 tokuda
2 lorensen
1 dpace
```

#### ■ Impact

```
$ git diff --stat 400 401
1853 files changed, 91446 insertions(+), 95322 deletions(-)
```

#### ■ Changes

##### ■ [ChangeLog-Slicer-4.1.0.txt](#)

##### ■ Summary

- Extension Manager
- MultiVolume support (MultiVolumeExplorer)
- Chart support
- OpenIGTLink, DICOM, Welcome modules added/improved
- Compare Views, Slice View Controller improved
- *Prefer executable CLIs* option
- *ENH: Seeding with no input label map now performs a full brain tractography*

#### ■ Mantis permalinks

- [72 Issues resolved](#)
- [Issues reported](#)
- [Open issues](#)
- Known Issues
  - Extension Manager hidden by default (Need to turn on setting in Application Settings dialog)

## Slicer 4.0

### Slicer 4.0.1

- Date: 2012/01/06
- Revisions
  - [689aa5161652f452bb878aa33e4189234fe400f7](#), v4.0.1
  - Archived repositories:
    - Svn: [19033](#)
    - Git: [e56745aa8a9b5d21e11ece556d13b6499d83d5ed](#), v4.0.1
- Contributors

```
$ git shortlog -s -n 400..401
124 jcfr
84 finetjul
12 naucoin
9 pieper
7 fedorov
6 alexy
4 hjohnson
3 benjamin.long
2 Michael.jeulin1
1 millerjv
1 tokuda
1 wjp@bwh.harvard.edu
1 zach.mullen
```

#### ■ Impact

```
$ git diff --stat 400 401
6838 files changed, 361906 insertions(+), 2249448 deletions(-)
```

#### ■ Changes

- [ChangeLog-Slicer-4.0.1.txt](#), [ChangeLog-Slicer-4.0.1-digest.txt](#)
- Summary
  - VTK GPU Raycast mapper fixed on Mac Os X with ATI GPU
  - Install fixed on ubuntu 11.04
  - DWI full tractography install fixed on Mac Os X

- Summary
  - VTK GPU Raycast mapper fixed on Mac Os X with ATI GPU
  - Install fixed on ubuntu 11.04
  - DWI full tractography install fixed on Mac Os X
  - Faster scene load
  - Drag&Drop files in Slicer
  - Volume rendering method is an application setting
  - Load annotation files
- Mantis permalinks
  - [Issues resolved](#)
  - [Issues reported](#)
  - [Open issues](#)
  - Known Issues
    - views loose settings on layout change

## Slicer 4.0.0

- Date: 2011/11/27
- Revisions
  - [7d399f5e451aeb3a0a71e7db991d519ecc98bbe6](#), v4.0.0
  - Archived repositories:
    - Svn: [18777](#)
    - Git: [8b1733199c02cfea668fd4de6f7b3f22136c0fab](#), v4.0.0
- Contributors

```
$ git shortlog -s -n 400rc2..400
450 jcfrr
389 finetjul
159 pieper
158 nauccoin
91 wjp@bwh.harvard.edu
62 alexy
56 millerjv
43 haehn
43 fedorov
39 demian
34 hjohnson
23 inorton
20 benjamin.long
14 zach.mullen
11 ilknur.kabul
10 pohl
9 Michael.jeulin1
6 lorenson
3 domibel
2 kedar_p
1 harveerar
1 taylor
```

- Impact

```
$ git diff --stat 400rc2 400
4315 files changed, 165575 insertions(+), 233077 deletions(-)
```

- Target for [RSNA 2011](#)
- New features
  - Application
    - Slice controller popups
    - Compare Views
    - Reformat widget
    - Slice intersection
    - Crosshair widget
    - Volume Rendering presets
    - Colors/Modules search
  - Modules
    - Facelift of Volume Rendering, Editor, Models, Tractography Display, Sceneviews...
    - Data probe (instead of corner annotations)
    - Crop

- Modules
  - Facelift of Volume Rendering, Editor, Models, Tractography Display, Sceneviews...
  - Data probe (instead of corner annotations)
  - Crop
  - EMSegment
  - Brainsfit
- Under the hood
  - Speed improvement
  - 99% tcl/tk free
  - Online documentation (wiki)
- Missing Features
  - Extensions (Plastimatch...)
  - DICOM module
  - DICOM to DWI module
  - More annotations types (angle, bspline...)
  - Status report
- Mantis permalinks
  - [Issues resolved](#) in 4.0.0
  - [Issues reported](#) in 4.0.0
  - [Open issues](#)
- Known issues
  - No VTK GPU Raycast VR on Mac
  - views loses settings on layout change
  - Broken ROI annotations: <http://www.na-mic.org/Bug/view.php?id=1628>
  - Doesn't start on some Linux machines (e.g. Ubuntu 11.10): delete the file libqsvg.so in the directory Slicer-4.0.0-linux-amd64/lib/QtPlugins/imageformats)

## Slicer 4.0.0 gamma

- Note: gamma for developers.
- Slicer 4.0.0 gamma-RC2 (2011/06/20)
  - Archived repositories:
    - Svn: [17159](#)
    - Git: [702cf25cb71972c3809315b62c4f7c81a86795c9](#)
- Slicer 4.0.0 gamma-RC1 (2011/06/13)
  - svn [17005](#)
  - git [57839c4ad2a82f9ddaeb9242ffca76dff1af2032](#)
- Contributors

```
$ git shortlog -s -n 400betaRC2..400gammaRC2
571 jefr
301 finetjul
165 nauccoin
78 pieper
67 alexy
37 haehn
37 fedorov
35 lorensen
19 harveerar
13 partyd
8 millerjv
6 dpace
5 domibel
4 zach.mullen
4 demian
4 inorton
4 matthew.bowman
4 mecully
3 hjohnson
1 francois_budin
```

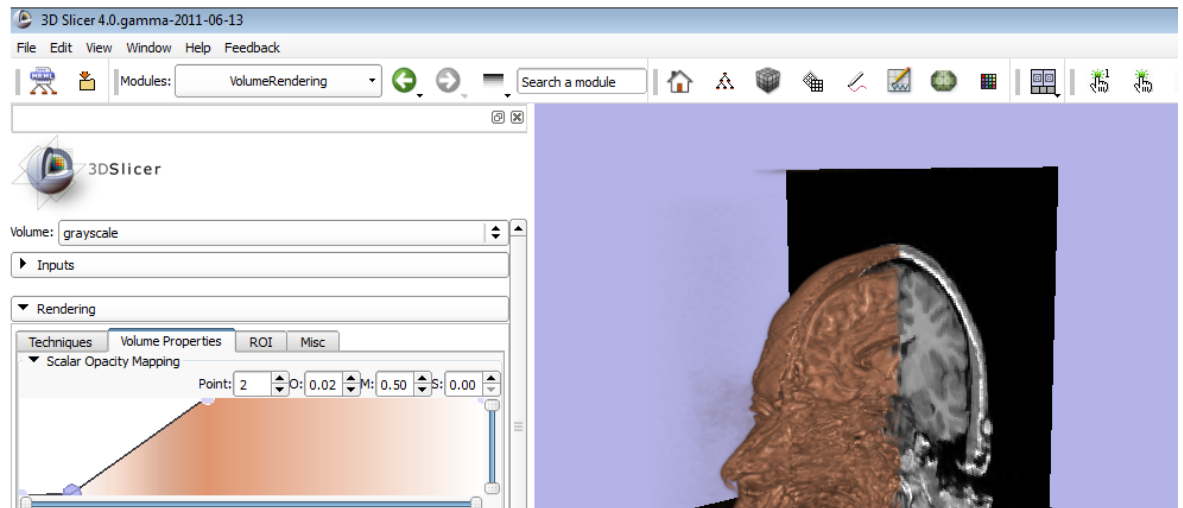
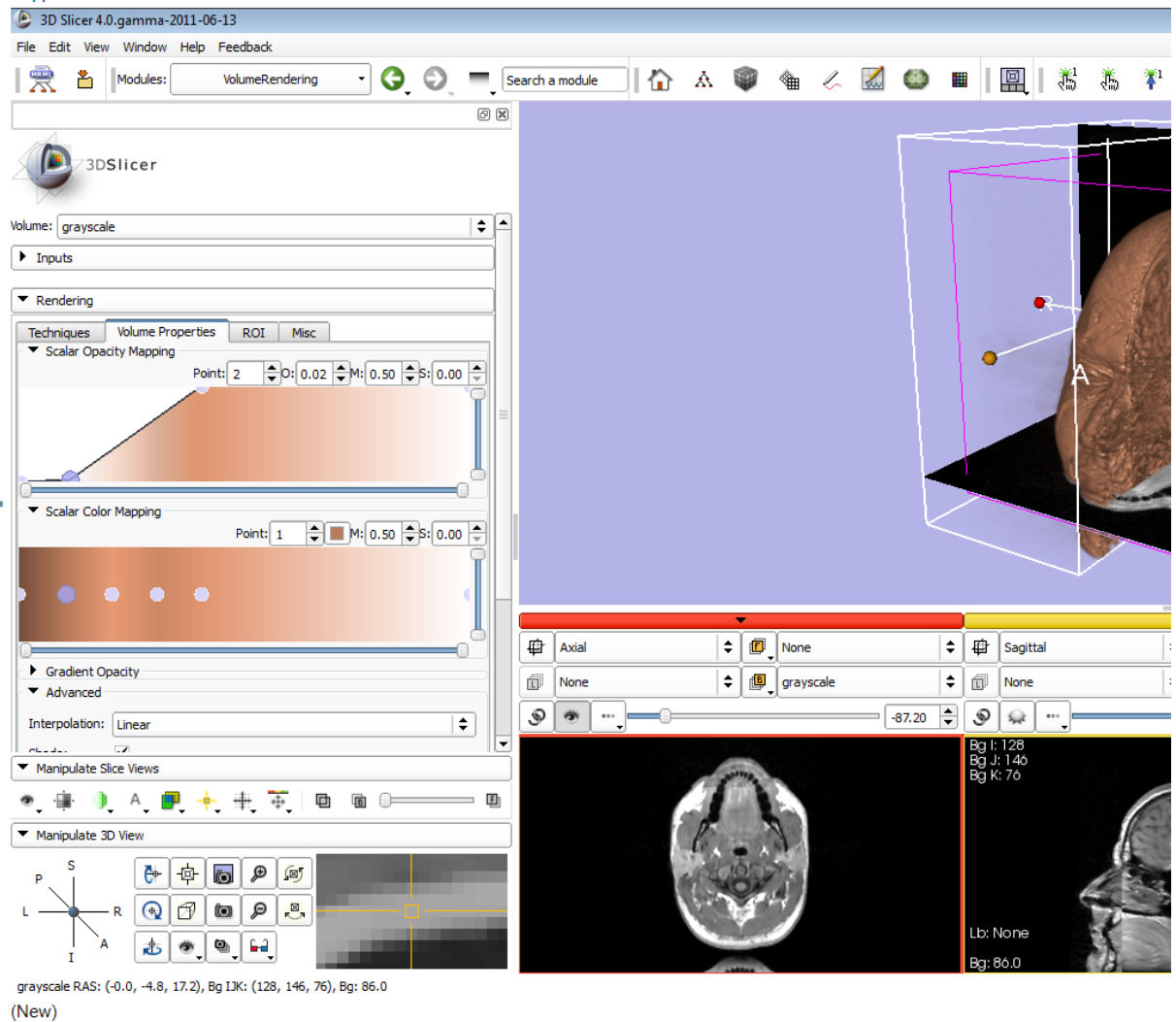
- Impact

```
$ git diff --stat 400betaRC2 400gammaRC2
2617 files changed, 109115 insertions(+), 357477 deletions(-)
```

- ■ Known issues

```
$ git diff --stat 400betaRC2 400gammaRC2
2617 files changed, 109115 insertions(+), 357477 deletions(-)
```

- Known issues
  - Crash when loading DTI images.
- New features
  - Modules
    - Support for "Command Line Executables"





**▲ Glyphs on Slices Display**

Slice Visibility: ☒ Red ☒ Yellow ☐ Green

Opacity:

Scalar ColorMap:  Rainbow

Color by Scalar: FractionalAnisotropy

Scalar Range:

Glyph Type: Lines

Scale Factor:

Spacing:

Glyph Eigenvector: Major

- Control over the slider range when editing Window/Level.

- Data

- Option menu (Insert transform, Edit properties, Delete...) on right click.

- Annotations

L-R Range:

P-A Range:

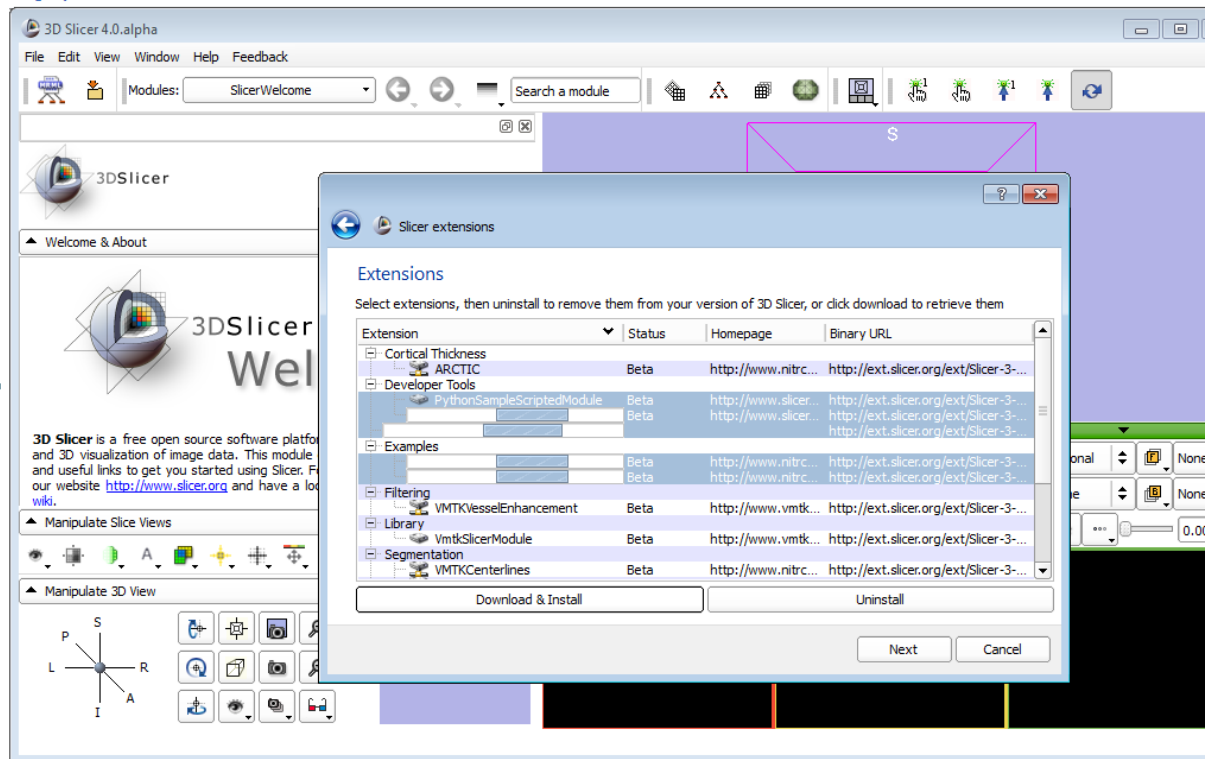
I-S Range:

☐ Display Clipping box ☒ Interactive Mode

(New)

- Application

- Magnify view



- Dynamic Layouts

- Error&Warnings Logger

- Misc.

- Automatic package submission system
  - CMake configuration template for building extensions
  - Mac Bundle
  - Python testing

- What is missing?

- Mac Bundle
- Python testing
- What is missing?
  - Speed improvement
  - Status report
  - "Compare Views"
  - UI for DICOM loading
  - Reformat widget
  - Crosshair widget
  - Slice intersections
  - Volume Rendering presets
  - More annotation types
  - ...

## Slicer 4.0.0 beta

- Beta for developers.
- Slicer 4.0.0 beta-2 (2011/01/08)
  - Archived repositories:
    - Svn: [15784](#)
    - Git: [25765eff42efb5c33056896af5601ab6a79d003f](#)
  - Known issues:
    - Can't load volumes (.nrrd) using "Add Data" dialog
- Slicer 4.0.0 beta-1 (2010/12/18)
  - svn 15678
  - git [de67f79dfb745dc7534197eb0012d61c3c91ee30](#)
  - Known issues:
    - Can't load models (.vtk) using "Add Data" dialog
- Contributors

```
$ git shortlog -s -n 400alpha..400betaRC2
283 jofr
191 finetjul
107 hashn
85 pieper
28 dpace
20 naucoin
18 partyd
12 wjp@bwh.harvard.edu
11 alexy
9 pohl
6 fedorov
5 zach.mullen
4 hjohnson
3 lorenzen
2 ygao
2 mscully
2 millerjv
2 domibel
1 aylward
1 tokuda
```

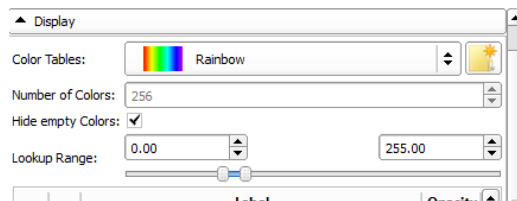
### ■ Impact

```
git diff --stat 400alpha..400betaRC2
2178 files changed, 91605 insertions(+), 71850 deletions(-)
```

### ■ New features

#### ■ Modules

##### ■ Annotation



Number of Colors: 256

Hide empty Colors: ☒

Lookup Range: 0.00 255.00

|   | Label                           | Opacity |
|---|---------------------------------|---------|
| 1 | R=1.000 G=0.000 B=0.000 A=1.000 | 1       |
| 2 | R=1.000 G=0.020 B=0.000 A=1.000 | 1       |
| 3 | R=1.000 G=0.039 B=0.000 A=1.000 | 1       |
| 4 | R=1.000 G=0.055 B=0.000 A=1.000 | 1       |
| 5 | R=1.000 G=0.075 B=0.000 A=1.000 | 1       |
| 6 | R=1.000 G=0.000 B=0.000 A=1.000 | 1       |

▲ Scalar Bar

☐ Display scalar bar

**Title properties:**

Text: (mm)

Color: #ffffff

▲ Create and Select Label Maps

Master Volume: 1

Merge Volume: I-label Set...

☐ Advanced...

▲ Edit Selected Label Map

Label: 1

Active Tool:

▲ Path

Camera: Default Scene Camera

Input Fiducials: L1

Create path

▲ Flythrough

Frame: 448

Frame skip: 1

Frame delay: 63 ms

View Angle: 37

Stop

► Help & Acknowledgement

Scene

|                                      |      |
|--------------------------------------|------|
| Model_19_sartorius_muscle.vtk        | 1.00 |
| Model_18_gracilis_muscle.vtk         | 1.00 |
| Model_17_semitendinosus_muscle.vtk   | 0.70 |
| Model_16_semimembranosus_muscle.vtk  | 0.21 |
| Model_15_biceps_femoris_muscle.vtk   | 0.50 |
| Model_13_vastus_medialis_muscle.vtk  | 1.00 |
| Model_12_vastus_lateralis_muscle.vtk | 1.00 |

Information

Surface Area: 5789.30mm<sup>2</sup>

Volume Area: 27736.23mm<sup>3</sup>

Number of Points: 43309

▼ Information

Surface Area: 5789.30mm<sup>2</sup>

Volume Area: 27736.23mm<sup>3</sup>

Number of Points: 43309

Number of Cells: 15377

Number of Points Scalars: 3

Number of Cells Scalars: 0

Filename: 2011/Model\_13\_vastus\_medialis\_muscle.vtk

▼ Display

Visible: ☒

Selected: ☐

Clip: ☐

Slice Intersections Visible: ☐

▼ Material Properties

Color:

Opacity:  1.00

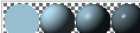
Ambient:  0.00

Diffuse:  1.00

Specular:  0.00

Power:  1.0

Backface Culling: ☒

Preview:  Presets: 

► Scalars

▼ Clipping

Clipping Type: ☐ Union ☒ Intersection

☐ Red Slice Clipping: ☐ Positive ☐ Negative

☐ Yellow Slice Clipping: ☐ Positive ☐ Negative

☐ Green Slice Clipping: ☐ Positive ☐ Negative

▲ SceneViews

▲ Create and Edit

| Preview/Edit                                                                        | Restore                                                                             | Name       | Description |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|-------------|
|  |  | SceneView  |             |
|  |  | SceneView1 |             |

▲ Linear registration

Parameter set: Linear registration

Status: CompletedWithErrors 100%

▼ Preprocessing

▲ Registration Parameters

Histogram Bins:  30.00

Spatial Samples:  10000.00

Iterations:  1000,1000,500,200

Learning Rates:  0.01,0.005,0.0005,0.0002

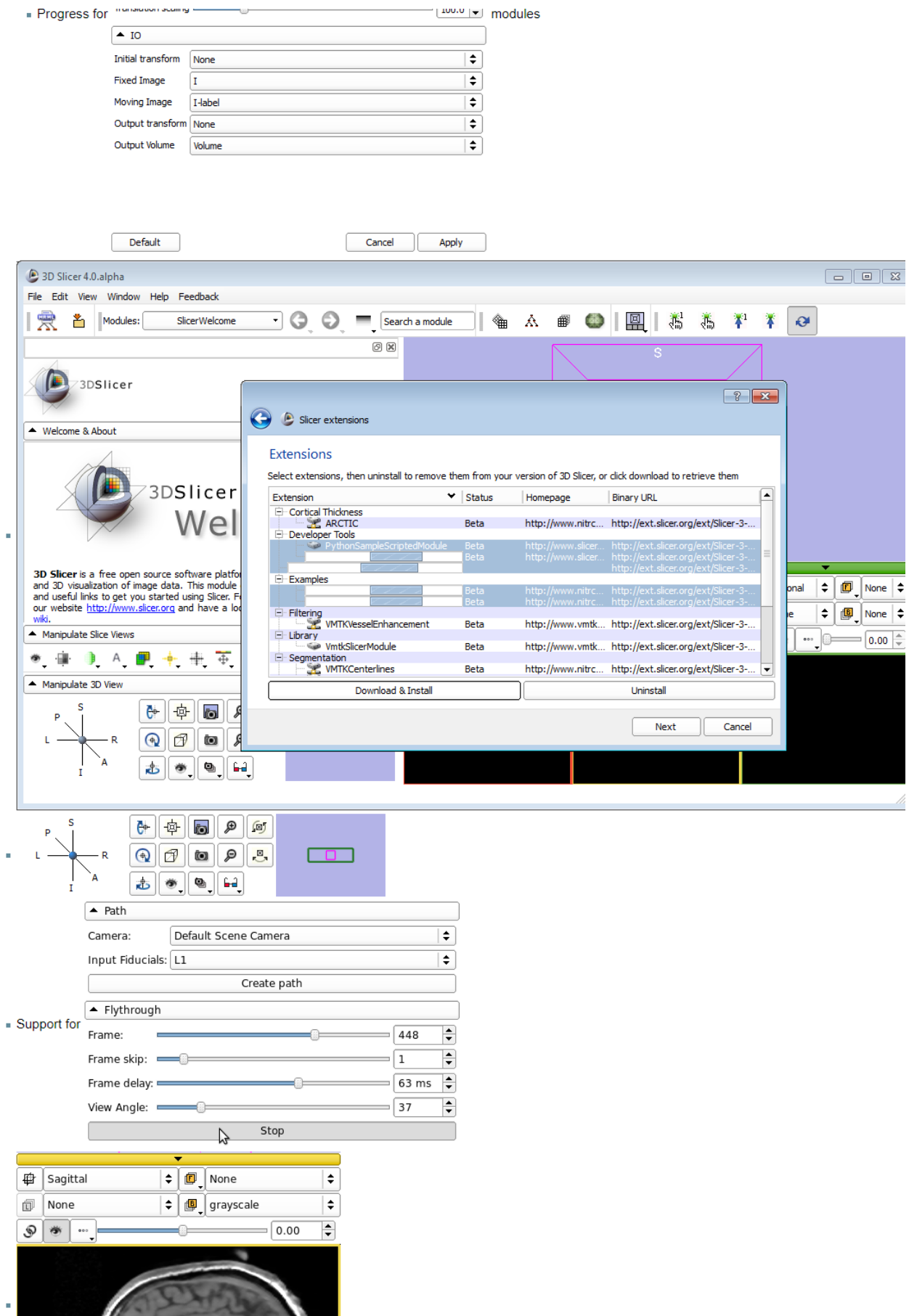
Translation scaling:  100.0

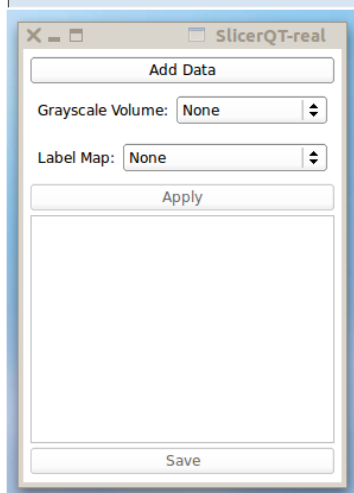
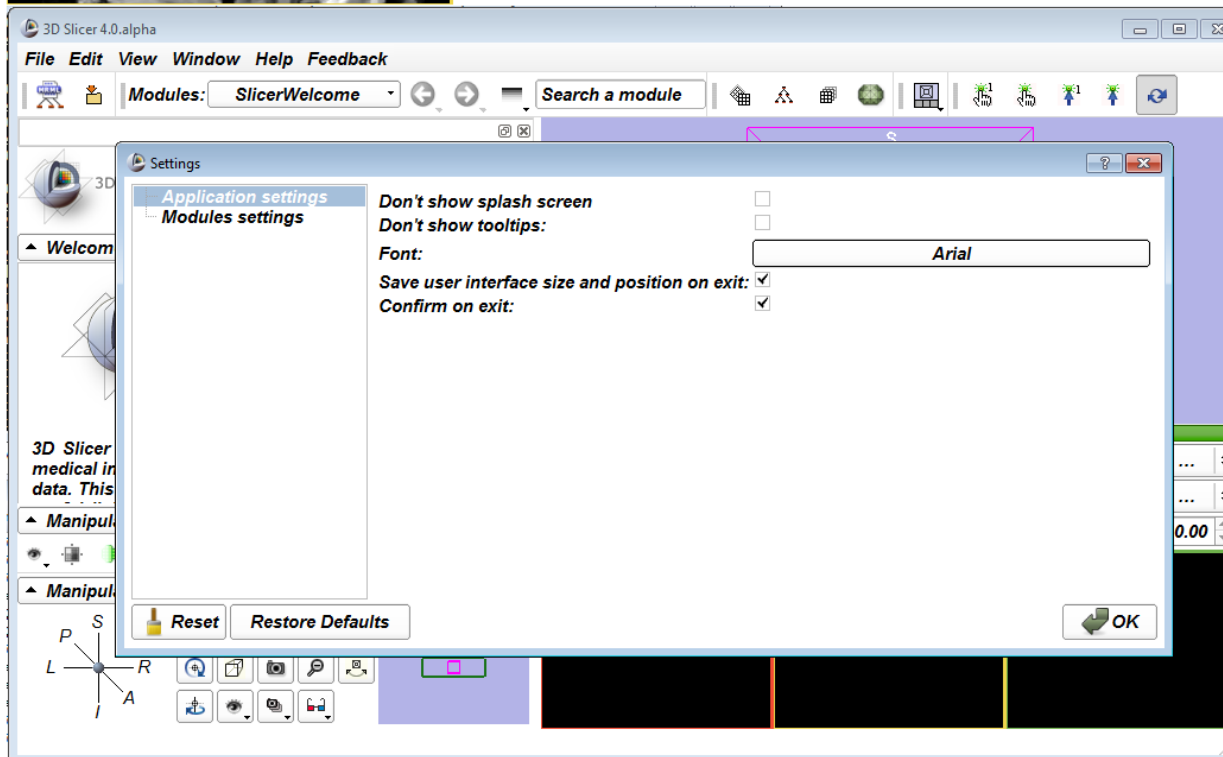
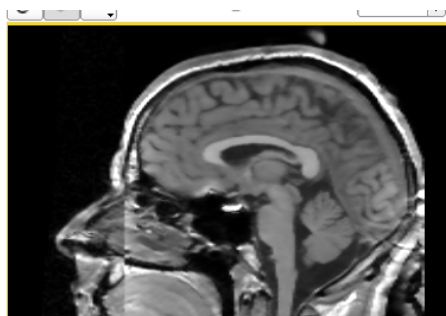
Progress for modules

▲ IO

Initial transform:  None

Fixed Image:  I





- What is missing?
  - Layouts (Compare, Tabbed, Dual 3D view...)
  - UI for DICOM loading
  - Volume Rendering
  - Cache&Remote I/O Manager (Download Sample Data)
  - Logger
  - Reformat widget
  - DWI support in the Volumes module

- Cache&Remote I/O Manager (Download Sample Data)
- Logger
- Reformat widget
- DWI support in the Volumes module

## Slicer 4.0.0 alpha

- Alpha release for developers
- Date: 2010/09/09
- Revisions
  - Archived repositories:
    - Svn: [14976](#)
    - Git: [b21afba04d282e44af2c0e40668f9d91aef9b2ad](#)
- Contributors

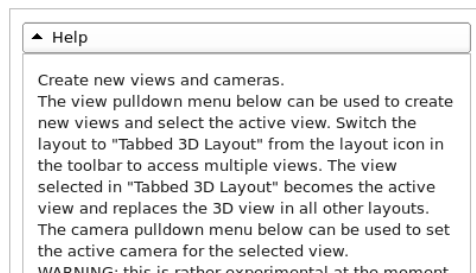
```
git shortlog -s -n 3..400alpha
 989 jcfjr
 595 finetjul
 462 pieper
 403 naucoin
 170 ibanez
 157 partyd
 145 fedorov
 131 vrnova
 116 haehn
 97 alexy
 93 millerjv
 89 wjp@bwh.harvard.edu
 69 hjohnson
 50 pohl
 49 taqx
 49 tokuda
 48 casey.goodlett
 43 francois_budin
 40 hliu
 37 lorensen
 29 lassoon
 18 sylvain
 16 hayes
 13 aylward
 10 pkarasev
 9 barre
 8 maddah
 8 vmagnotta
 7 Yong
 7 domibel
 6 clisle
 5 ygao
 4 awiles
 4 rjosest
 4 blezek
 3 johan.andruejol
 2 demian
 1 lantiga
 1 harveerar
 1 jvs
 1 lauren
```

### ■ Impact

```
git diff --stat 3 400alpha
4987 files changed, 1940991 insertions(+), 178447 deletions(-)
```

### ■ Features

- Modules
  - Annotation



the toolbar to access multiple views. The view selected in "Tabbed 3D Layout" becomes the active view and replaces the 3D view in all other layouts. The camera pulldown menu below can be used to set the active camera for the selected view.  
WARNING: this is rather experimental at the moment (fiducials, IO/data, closing the scene are probably broken for new views).

Camera

View: View1

Camera: Camera2

Linear registration

Parameter set: Linear registration

Status: CompletedWithErrors 100%

Preprocessing

Registration Parameters

Histogram Bins 30.00

Spatial Samples 10000.00

Iterations 1000, 1000, 500, 200

Learning Rates 0.01, 0.005, 0.0005, 0.0002

Translation scaling 100.0

IO

Initial transform None

Fixed Image I

Moving Image I-label

Output transform None

Output Volume Volume

Default Cancel Apply

Help

Display & Modify Scene

MRML Tree

| Name                 | Id                |
|----------------------|-------------------|
| Scene                |                   |
| View                 | vtkMRMLViewNode1  |
| Default Scene Camera | vtkMRMLCameraNode |
| MRMLROINode          | vtkMRMLROINode1   |

☒ Display MRML ID's

MRML Node Inspector

Load & Add Scenes Or Individual Datasets

☒ Display MRML ID's

▼ MRML Node Inspector

▲ Load & Add Scenes Or Individual Datasets

Use this option to add a new scene to the existing scene. Supported file formats include Slicer3.x MRML files (\*.mrml), Slicer2.x MRML files (\*.xml), data collections in XNAT Catalog

▲ Slice Controllers

▲ Slice Information

Slice Node: redAxial

Layout Name: Red

Orientation: Axial

Slice visible: ☐

Widget visible: ☐

Dimension: 256 256 1

Field of view: 250 250 1

Lightbox layout: 1 1

Slice spacing mode: ☒ Automatic ☐ Prescribed

Prescribed spacing: 1.0

▲ Help

The ROI module creates and edits Region Of Interest (ROI). An ROI is a rectangle region in the RAS space. It is defined by the location of it's center and three extents of it's sides. The ROI can be rotated and/or translated relative to the RAS space by placing it inside the Transformation node in the Data module. The ROI module allows user to create new ROI's, change their visibility, and also change the size and location of ROI's. Region Of Interest (ROI) is used in other modules such as ClipModels, VolumeRendering, etc. For more information see <http://wiki.slicer.org/slicerWiki/index.php/Modules:ROI> Module-Documentation-3.6

▲ ROI Display

Select a ROI : MRMLROINode

L-R Range: -59.00 44.00

P-A Range: -47.00 83.00

I-S Range: -73.00 -23.00

P-A Range:

I-S Range:

☐ Display Clipping box ☒ Interactive Mode

▲ Help

The Tractography Fiducial Seeding Module creates fiber tracts at specified seeding location.  
<http://www.slicer.org/slicerWiki/index.php/Modules:FiducialSeeding-Documentation-3.4>

Parameters

DTI Volume

Fiducial List or Model

Output Fiber Bundle

Stopping Criteria

Stopping Value

Stopping Track Curvature

Integration Step Length (mm)

Minimum Path Length (mm)

Fiducial Region Size (mm)

Fiducial Seeding Step Size

☐ Seed Selected Fiducials

Maximum Number Of Seeds

Display Tracts As:

☒ Enable Seeding Tracts

► Help & Acknowledgement

Active Transform:

▼ Display & Edit

▼ Transform Matrix

|   |   |   |     |
|---|---|---|-----|
| 1 | 0 | 0 | 100 |
| 0 | 1 | 0 | 0   |
| 0 | 0 | 1 | 0   |
| 0 | 0 | 0 | 1   |

▼ Translation

LR

PA

IS

Min  Max

▼ Rotation

LR

PA

IS

Coordinate Reference

☒ Global ☐ Local

▼ Transformed nodes

Transformable:

- Default Scene Camera
- Transform 1
- Volume 1
- Transform 3

Transformed:

- Volume 2



**Previous, Next, and History** icons, and the **Search** icon with text-box as convenient ways to move quickly among loaded modules. To customize the modules you'd like Slicer to include, select **View->ApplicationSettings->Module Settings** from Slicer's File Menu, select the **Load Modules** checkbox, and the **Select Modules** button.

**Extended Modules:** this toolbar also provides access, via the **Extensions** (gear) icon, to the Module Extensions Wizard. This Wizard can be used to locate, and add/remove additional extension modules to/from Slicer. This Wizard requires a network connection.

▼ Loading Scenes & Data

▼ Saving Scenes & Data

▼ Adjusting Data Display

▼ Configuring Viewers & Layout

▼ Mouse Modes

▼ Customizing Slicer

▼ Other Useful Hints

▼ Community

▼ Acknowledgment

Add Directory

Add File(s)

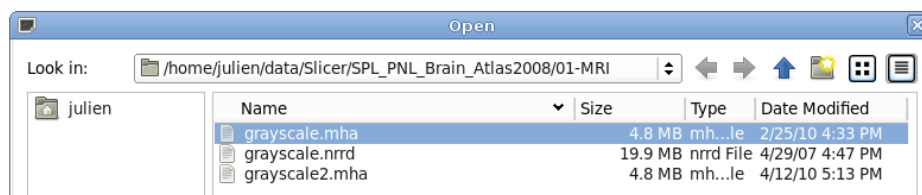
| <input checked="" type="checkbox"/> | File                                                                     | Description ^  | Options                                                                                                                                         |
|-------------------------------------|--------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | /home/julien/data/Slicer/SPL_PNL_Brain_Atlas2008/02-labels/seg.nrrd      | Volume         | <input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input type="checkbox"/> Single |
| <input checked="" type="checkbox"/> | ...e/julien/data/Slicer/SPL_PNL_Brain_Atlas2008/01-MRI/grayScale2.mha    | Volume         | <input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input type="checkbox"/> Single |
| <input checked="" type="checkbox"/> | /home/julien/data/Slicer/SPL_PNL_Brain_Atlas2008/01-MRI/grayScale.nrrd   | Volume         | <input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input type="checkbox"/> Single |
| <input checked="" type="checkbox"/> | /home/julien/data/Slicer/SPL_PNL_Brain_Atlas2008/01-MRI/grayScale.mha    | Volume         | <input type="checkbox"/> Centered <input type="checkbox"/> Ignore Orientation <input type="checkbox"/> LabelMap <input type="checkbox"/> Single |
| <input type="checkbox"/>            | .../julien/data/Slicer/SPL_PNL_Brain_Atlas2008/01-MRI/grayScale.nrrd.vti | Scalar Overlay |                                                                                                                                                 |
| <input checked="" type="checkbox"/> | ...PNL_Brain_Atlas2008/05-cranial_nerves/vestibulocochlear_nerve_R.vtk   | Model          |                                                                                                                                                 |
| <input checked="" type="checkbox"/> | ...PNL_Brain_Atlas2008/05-cranial_nerves/vestibulocochlear_nerve_L.vtk   | Model          |                                                                                                                                                 |
| <input checked="" type="checkbox"/> | .../Slicer/SPL_PNL_Brain_Atlas2008/05-cranial_nerves/vagal_nerve_R.vtk   | Model          |                                                                                                                                                 |
| <input checked="" type="checkbox"/> | .../Slicer/SPL_PNL_Brain_Atlas2008/05-cranial_nerves/vagal_nerve_L.vtk   | Model          |                                                                                                                                                 |

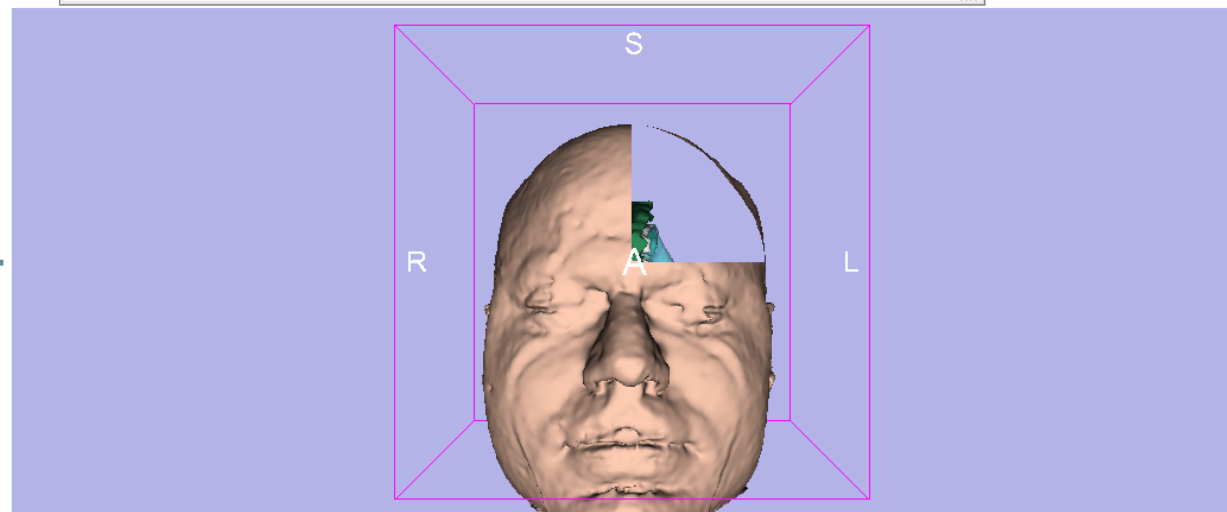
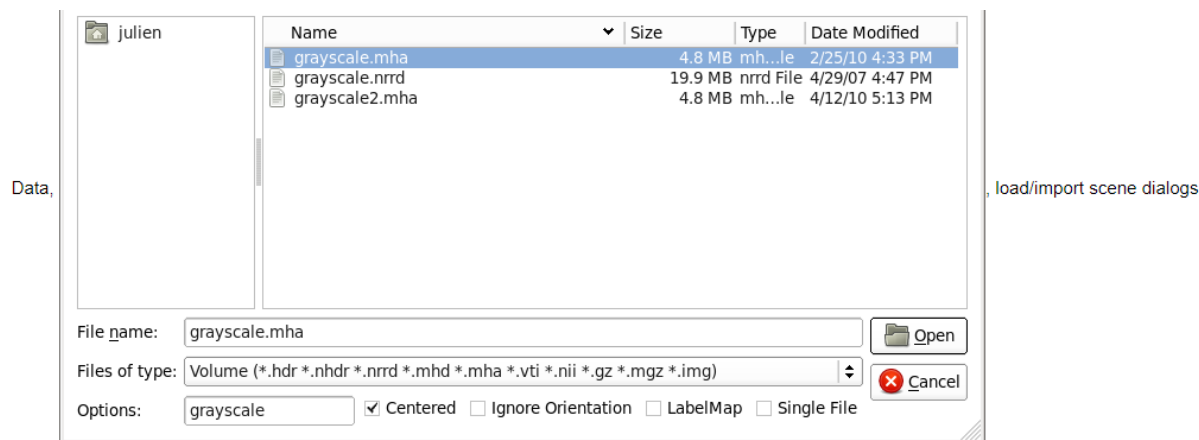
 Reset



| <input checked="" type="checkbox"/> | Node Name                                                                        | Node Type | Node Status  | File Format      | File Name      | Data Dir                       |
|-------------------------------------|----------------------------------------------------------------------------------|-----------|--------------|------------------|----------------|--------------------------------|
| 1                                   | <input checked="" type="checkbox"/> (Scene Description)                          | (SCENE)   | Modified     | MRML (.mrm)      | Slicer4-build  | /home/ju                       |
| 2                                   | <input checked="" type="checkbox"/> atlas.vtk                                    | Model     | Not Modified | Poly Data (.vtk) | atlas.vtk      | /home/julien/data/Slicer/SPL_P |
| 3                                   | <input checked="" type="checkbox"/> anterior_substantia_perforata_R.vtk          | Model     | Not Modified | Poly Data (.vtk) | anterior_su... | /home/julien/data/Slicer/SPL_P |
| 4                                   | <input checked="" type="checkbox"/> anterior_substantia_perforata_L.vtk          | Model     | Not Modified | Poly Data (.vtk) | anterior_su... | /home/julien/data/Slicer/SPL_P |
| 5                                   | <input checked="" type="checkbox"/> anterior_commissure.vtk                      | Model     | Not Modified | Poly Data (.vtk) | anterior_co... | /home/julien/data/Slicer/SPL_P |
| 6                                   | <input checked="" type="checkbox"/> angular_gyrus_inferior_parietal_lobule_L.vtk | Model     | Not Modified | Poly Data (.vtk) | angular_gyr... | /home/julien/data/Slicer/SPL_P |
| 7                                   | <input checked="" type="checkbox"/> angular_gyrus_inferior_parietal_lobule_R.vtk | Model     | Not Modified | Poly Data (.vtk) | angular_gyr... | /home/julien/data/Slicer/SPL_P |
| 8                                   | <input checked="" type="checkbox"/> amygdaloid_body_R.vtk                        | Model     | Not Modified | Poly Data (.vtk) | amygdaloid...  | /home/julien/data/Slicer/SPL_P |

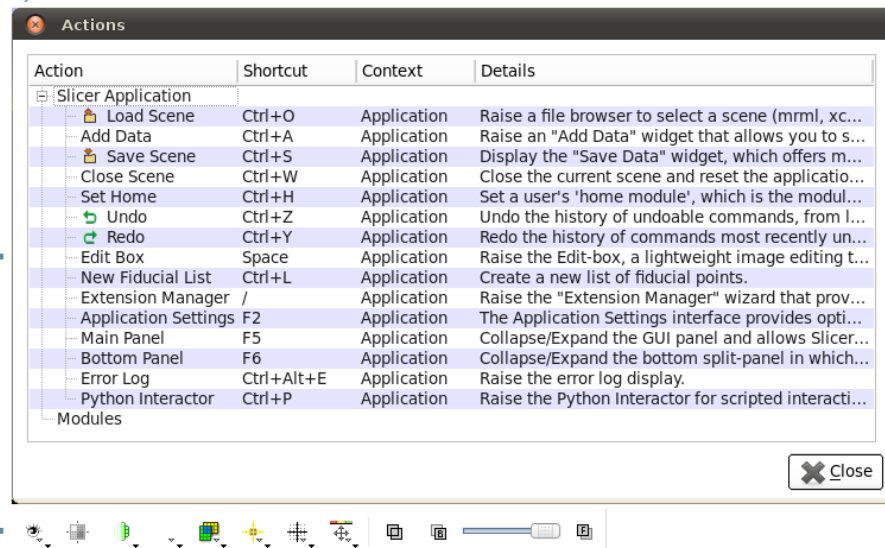
Destination for all selected: 





/slice views

- Layouts: Conventional, FourUp, 3D/Red/Yellow/Green only layouts
- Python console



## Slicer 4

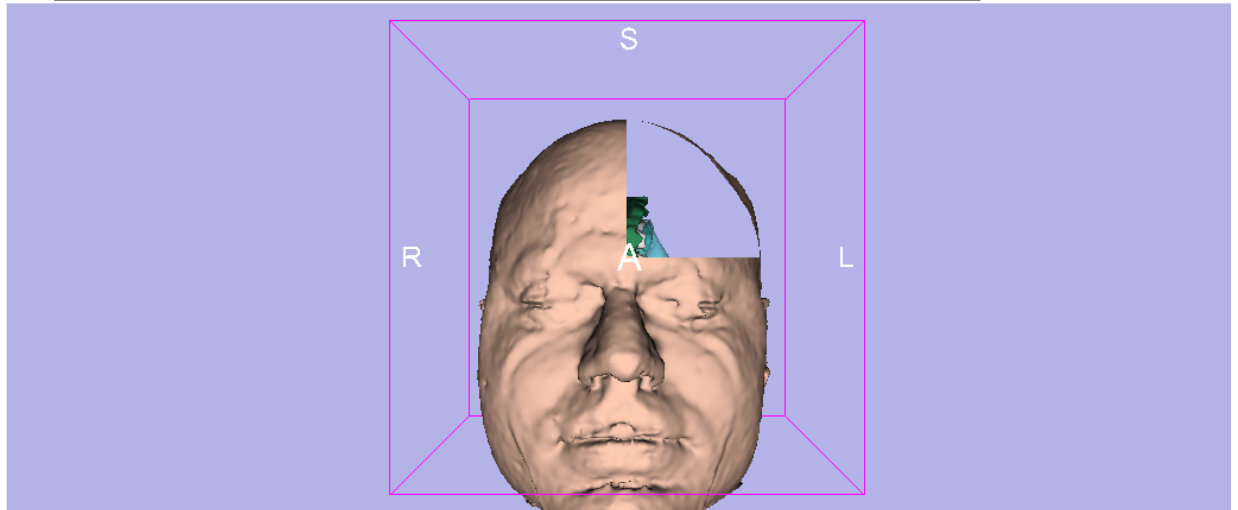
- First commit
  - date 2009/10/07
  - Archived repositories:
    - Svn: [10581](#)
    - Git: [553df44bbfb766a24edeb48622694f5303737322](#)

Data, load/import scene dialogs

File name:  Open

Files of type:  Cancel

Options:  ☒ Centered ☐ Ignore Orientation ☐ LabelMap ☐ Single File



/slice views

- Layouts: Conventional, FourUp, 3D/Red/Yellow/Green only layouts
- Python console

| Actions              |            |             |                                                       |
|----------------------|------------|-------------|-------------------------------------------------------|
| Action               | Shortcut   | Context     | Details                                               |
| Slicer Application   |            |             |                                                       |
| Load Scene           | Ctrl+O     | Application | Raise a file browser to select a scene (mrmr, xc...   |
| Add Data             | Ctrl+A     | Application | Raise an "Add Data" widget that allows you to s...    |
| Save Scene           | Ctrl+S     | Application | Display the "Save Data" widget, which offers m...     |
| Close Scene          | Ctrl+W     | Application | Close the current scene and reset the applicatio...   |
| Set Home             | Ctrl+H     | Application | Set a user's 'home module', which is the modul...     |
| Undo                 | Ctrl+Z     | Application | Undo the history of undoable commands, from l...      |
| Redo                 | Ctrl+Y     | Application | Redo the history of commands most recently un...      |
| Edit Box             | Space      | Application | Raise the Edit-box, a lightweight image editing t...  |
| New Fiducial List    | Ctrl+L     | Application | Create a new list of fiducial points.                 |
| Extension Manager    | /          | Application | Raise the "Extension Manager" wizard that prov...     |
| Application Settings | F2         | Application | The Application Settings interface provides opti...   |
| Main Panel           | F5         | Application | Collapse/Expand the GUI panel and allows Slicer...    |
| Bottom Panel         | F6         | Application | Collapse/Expand the bottom split-panel in which...    |
| Error Log            | Ctrl+Alt+E | Application | Raise the error log display.                          |
| Python Interactor    | Ctrl+P     | Application | Raise the Python Interactor for scripted interacti... |
| Modules              |            |             |                                                       |

Close

## Slicer 4

- First commit
  - date 2009/10/07
  - Archived repositories:
    - Svn: [10581](#)
    - Git: [553df44bbfb766a24edeb48622694f5303737322](#)



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