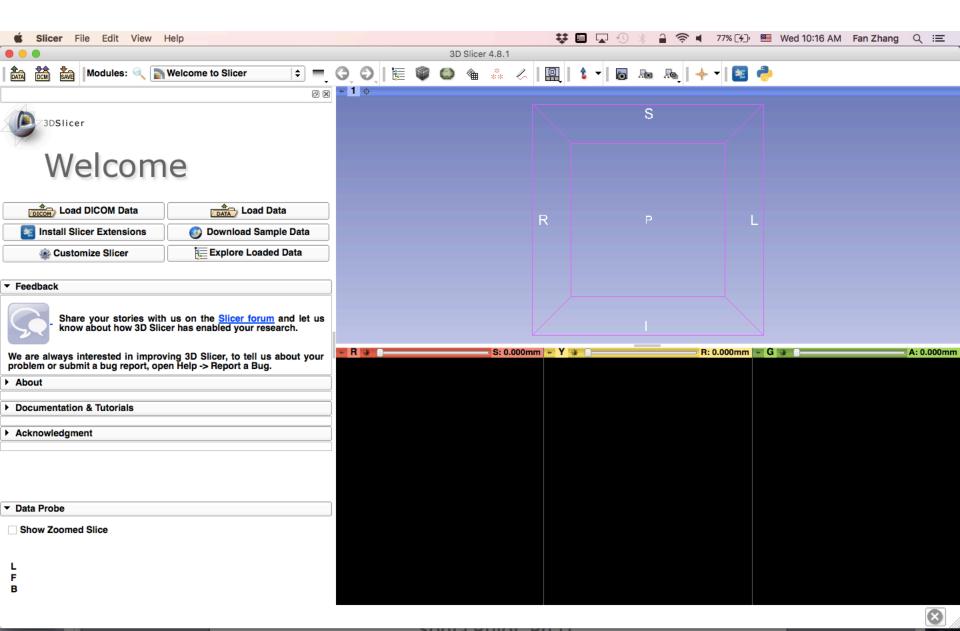
DWI Converter Tutorial

Fan Zhang Harvard Medical School

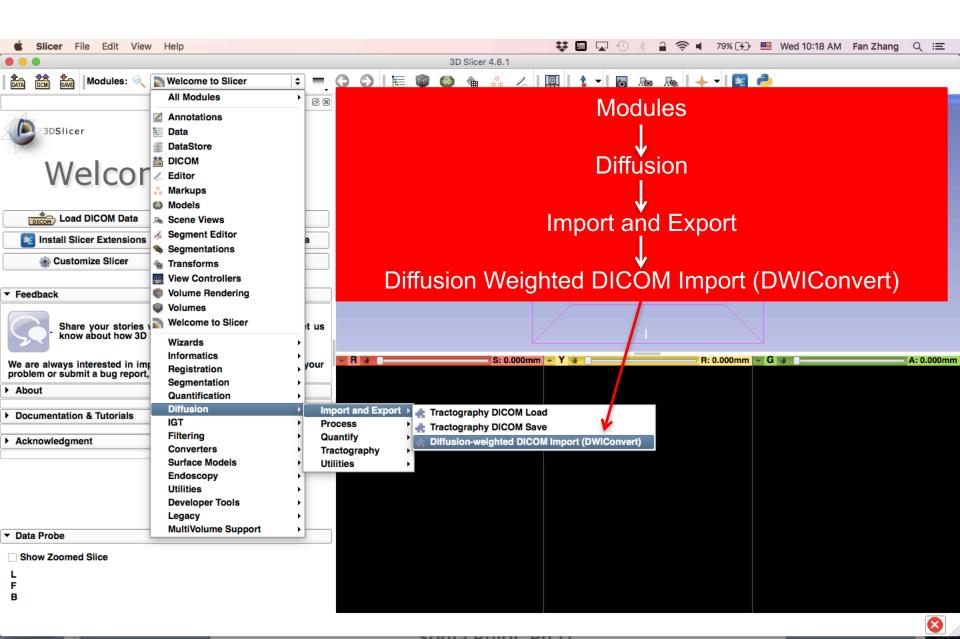


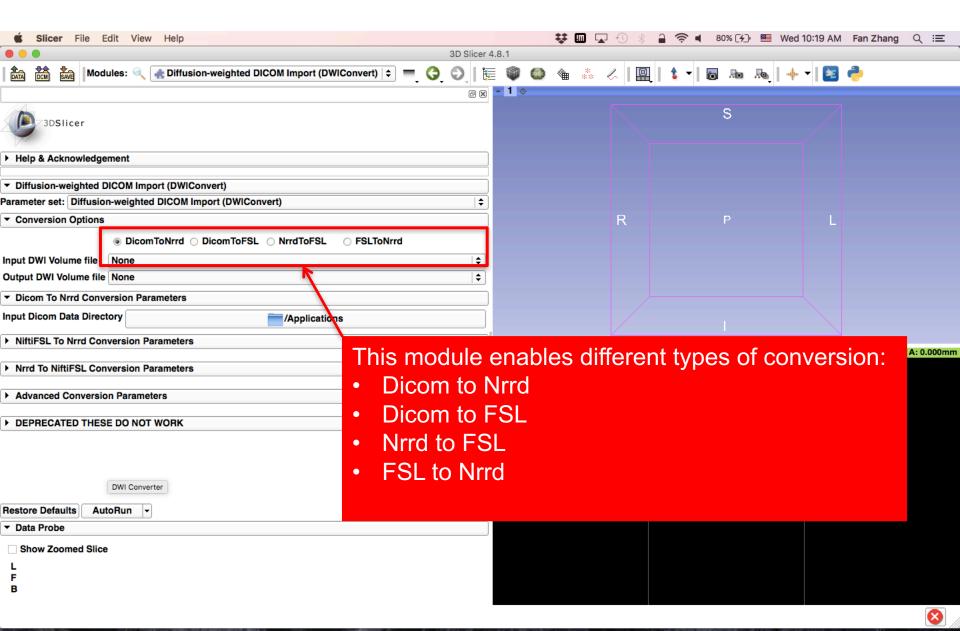


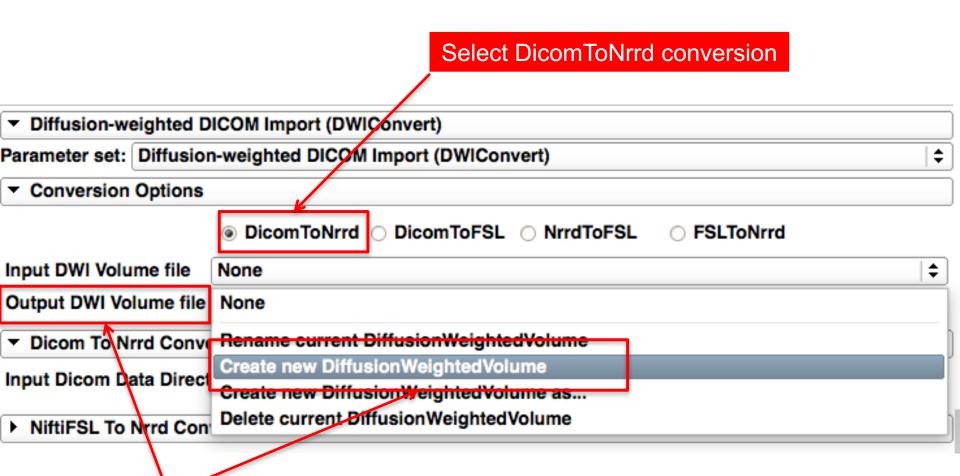
3DSlicer



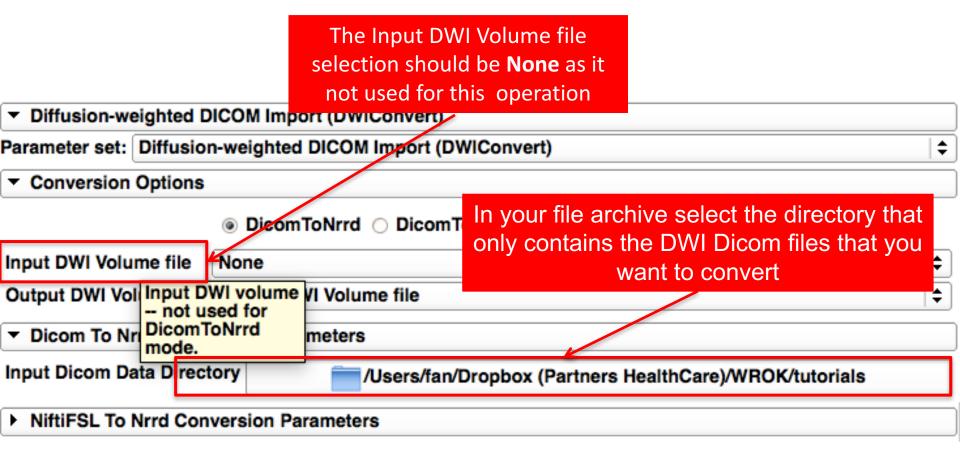
DWI Converter Module

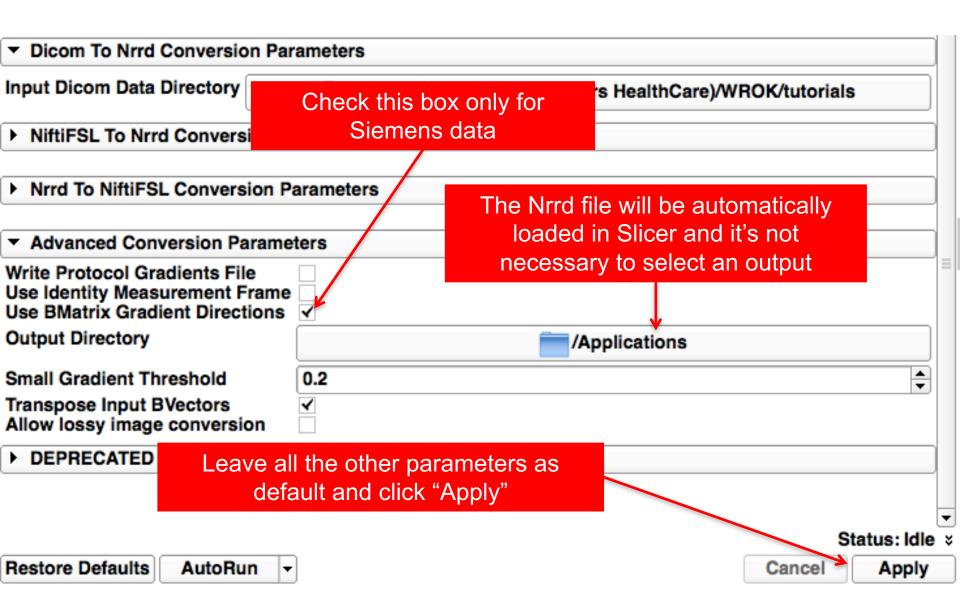




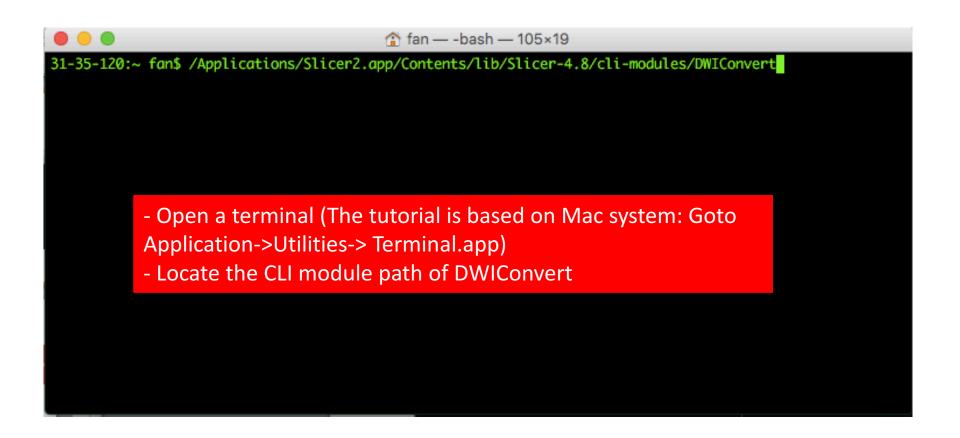


Create and name your output (Nrrd file)





Using DWI Converter in CLI



Using DWI Converter in CLI

```
    fan — -bash — 99×52

31-35-120:~ fan$ /Applications/Slicer2.app/Contents/lib/Slicer-4.8/cli-modules/DWIConvert -h
USAGE:
  /Applications/Slicer2.app/Contents/lib/Slicer-4.8/cli-modules/DWIConvert
                                         [--returnparameterfile
                                         <std::string>]
                                         [--processinformationaddress
                                         <std::string>] [--xml] [--echo]
                                         [--deserialize <std::string>]
                                         [--serialize <std::strina>]
                                         [--fMRI] [--gradientVectorFile
                                         <std::strina>7
                                         [--allowLossyConversion]
                                         [--transposeInputBVectors]
                                         [--smallGradientThreshold <double>]
                                         [--outputDirectory <std::string>]
                                         [--useBMatrixGradientDirections]
                                         [--useIdentityMeaseurementFrame]
                                         [--writeProtocolGradientsFile]
```

Run /Applications/Slicer2.app/Contents/lib/Slicer-4.8/climodules/DWIConvert -h to find detailed documentation of the usage of

```
DWIConvert

[--fslNIFTIFile <std::string>]
[-i <std::string>] [-o <std::string>]
[--inputVolume <std::string>]
[--conversionMode <DicomToNrrd
| DicomToFSL|NrrdToFSL|FSLToNrrd>]
[--] [--version] [-h]

Where:

--returnparameterfile <std::string>
Filename in which to write simple return parameters (int, float, int-vector, etc.) as opposed to bulk return parameters (image, geometry, transform, measurement, table).
```

Acknowledgements

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 National Alliance for Medical Image Computing (NA-MIC) namic.org



 National Center for Image Guided Therapy (NCIGT) ncigt.org



 Neuroimage Analysis Center (NAC) nac.spl.harvard.edu



 Surgical Planning laboratory (SPL) spl.harvard.edu