



DWI Converter Tutorial

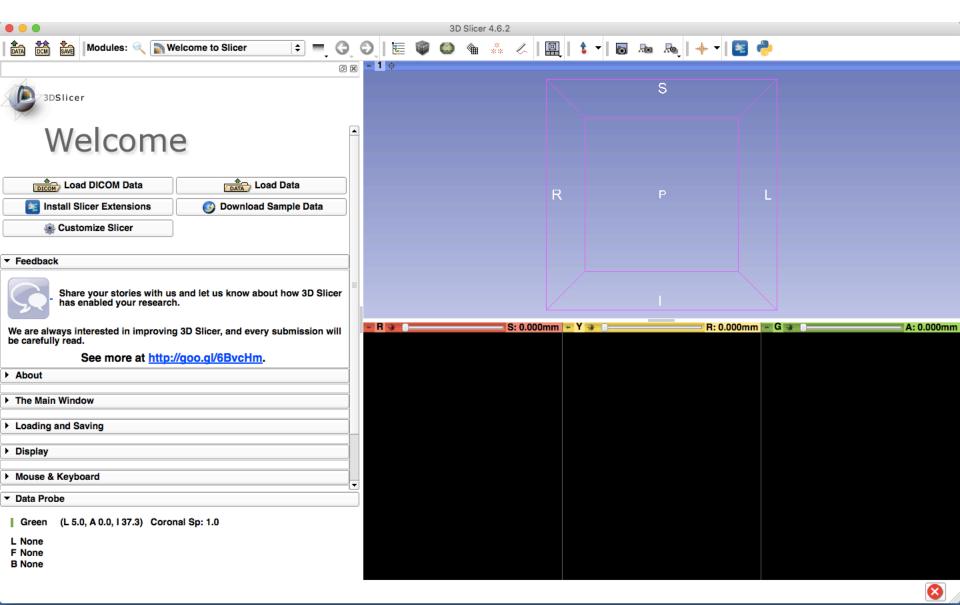
Surgical Planning Laboratory
Harvard Medical School



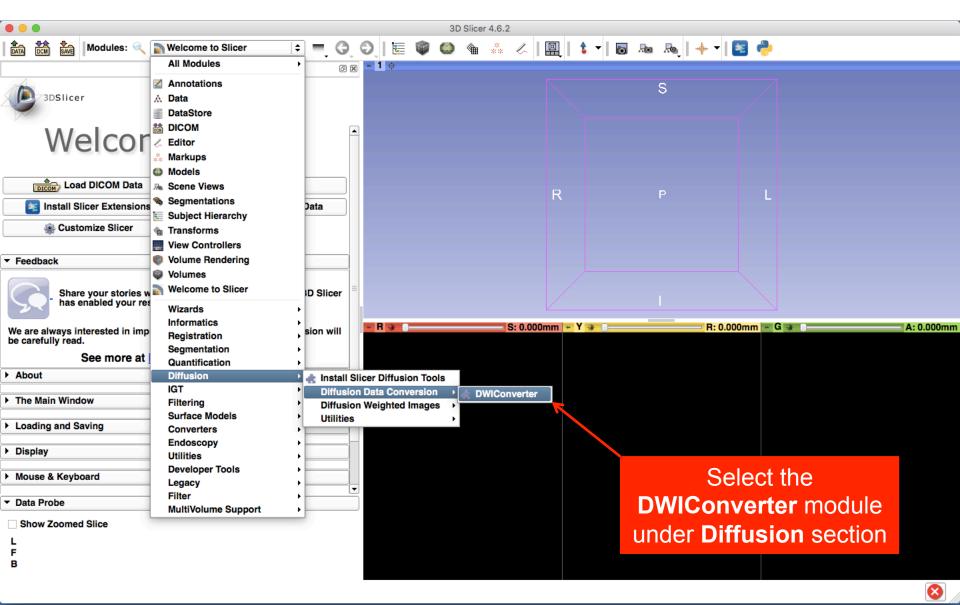


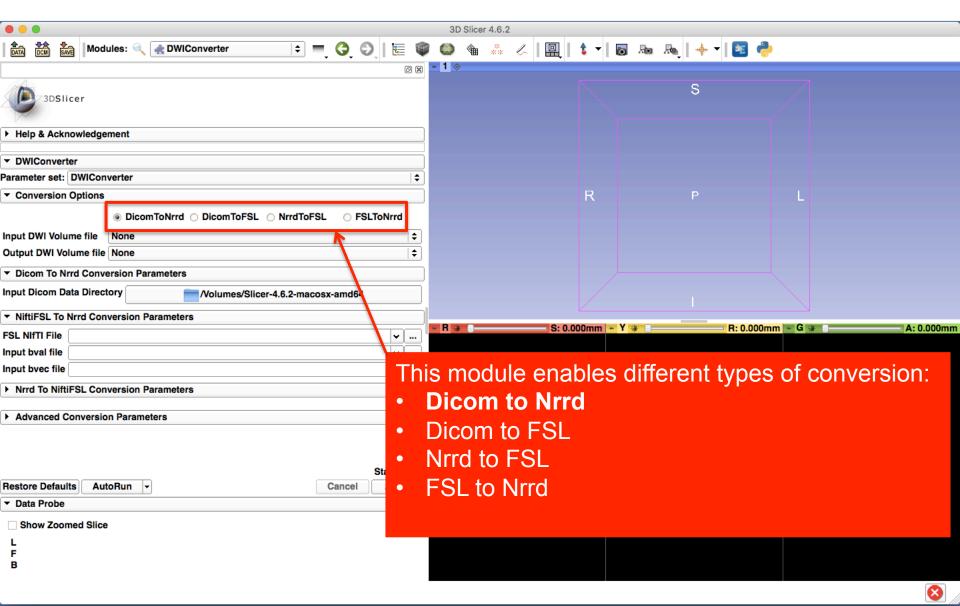


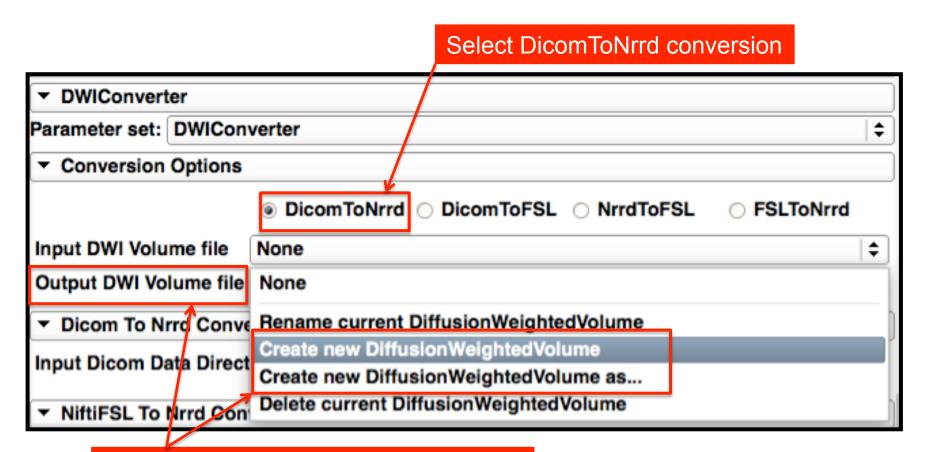
3DSlicer



DWI Converter Module

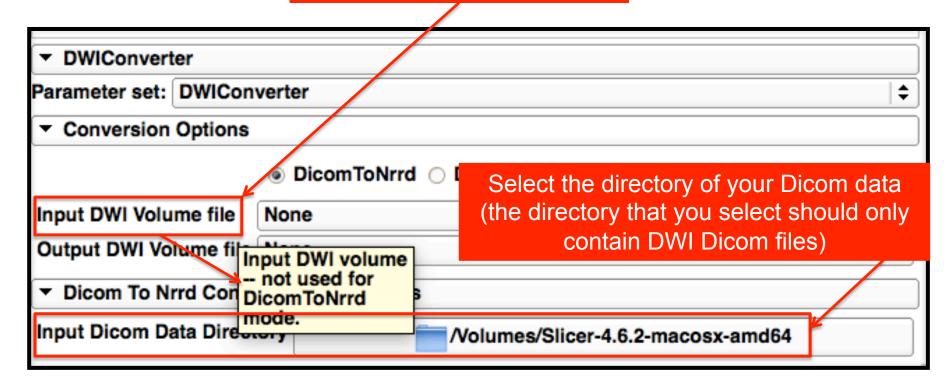


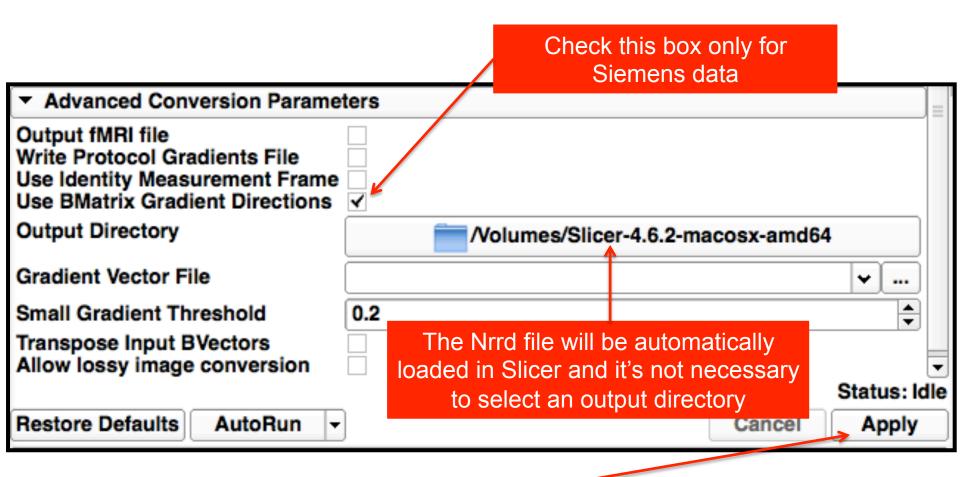




Create and name your output (Nrrd file)

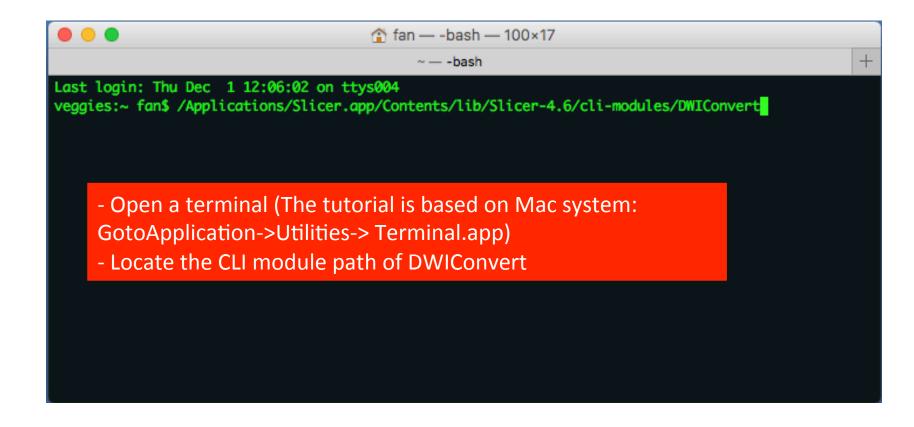
This box should remain empty for Dicom to Nrrd conversion





Leave all the other parameters as default and click "Apply"

Using DWI Converter in CLI



Using DWI Converter in CLI

```
Last login: Thu Dec 1 12:06:02 on ttys004
/eggies:~ fan$ /Applications/Slicer.app/Contents/lib/Slicer-4.6/cli-modules/DWIConvert --help
  /Applications/Slicer.app/Contents/lib/Slicer-4.6/cli-modules/DWIConvert
                                        [--returnparameterfile
                                        [--processinformationaddress
                                        <std::string>] [--xml] [--echo]
                                        [--deserialize <std::string>]
                                        [--serialize <std::string>]
                                         [--allowLossyConversion]
                                        [--transposeInputBVectors]
                                         [--smallGradientThreshold <double>]
                                        [--gradientVectorFile
                                        <std::string>] [--outputDirectory
                                        <std::string>]
                                        [--useBMatrixGradientDirections]
                                        [--useIdentityMeaseurementFrame]
[--writeProtocolGradientsFile]
                                        [--fMRI] [--outputBVectors
                                        <std::string>] [--outputBValues
                                        <std::string>] [--inputBVectors
                                        <std::string>] [--inputBValues
                                        <std::string>] [--fslNIFTIFile
<std::string>] [-i <std::string>]
                                        [-o <std::string>] [--inputVolume
                                        <std::string>] [--conversionMode
                                        <DicomToNrrd|DicomToFSL|NrrdToFSL
                                        |FSLToNrrd>] [--] [--version] [-h]
  --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).
  --processinformationaddress <std::string>
    Address of a structure to store process information (progress, abort,
   etc.). (default: 0)
   Produce xml description of command line arguments (default: 0)
   Echo the command line arguments (default: 0)
  --deserialize <std::string>
   Restore the module's parameters that were previously archived.
  --serialize <std::string>
   Store the module's parameters to a file.
    The only supported output type is 'short'. Conversion from images of a
    different type may cause data loss due to rounding or truncation. Use
    with caution!' (default: 0)
   FSL input BVectors are expected to be encoded in the input file as one
    vector per line. If it is not the case, use this option to transpose
    the file as it is read (default: 0)
```

Run '/Applications/Slicer.app/Contents/ lib/Slicer-4.6/cli-modules/DWIConvert -help' to find detailed documentation of the usage of DWIConvert

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