3D Slicer GUI

3D Slicer is an open-source software platform for medical image informatics, image processing, and three-dimensional visualization.

TorchIO provides a 3D Slicer extension for quick experimentation and visualization of the package features without any coding.

The TorchIO extension can be easily installed using the Extensions Manager.

The code and installation instructions are available on GitHub.

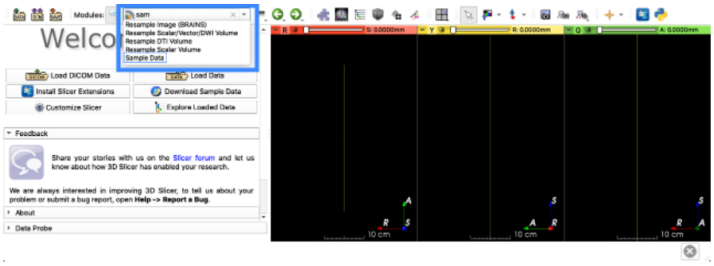
> **Note**
>
> The Preview version (built nightly) is recommended. You can download and install Slicer from their download website or, if you are on macOS, using Homebrew:
>
> ```
> brew tap homebrew/cask-versions && brew cask install slicer-preview
> ```

TorchIO Transforms

This module can be used to quickly visualize the effect of each transform parameter. That way, users can have an intuitive feeling of what the output of a transform looks like without any coding at all.

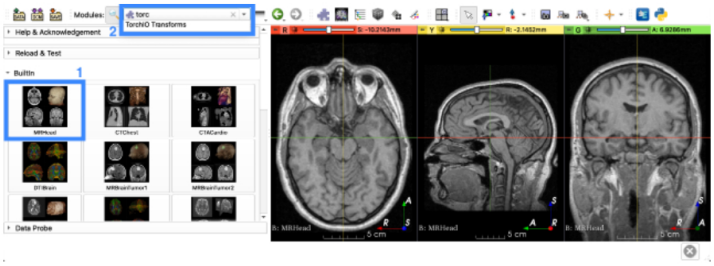
Usage example

Go to the `Sample Data` module to get an image we can use:

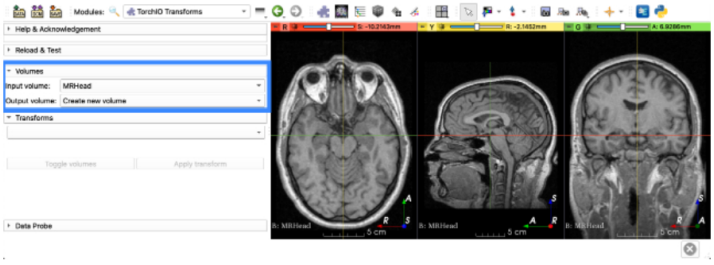


Click on an image to download, for example MRHead [1], and go to the `TorchIO Transforms` module:

[1]: All the data in `Sample Data` can be downloaded and used in the TorchIO Python library using the `torchio.datasets.slicer.Slicer` class.



Select the input and output volume nodes:



Modify the transform parameters and click on `Apply transform`. Hovering the mouse over the transforms will show tooltips extracted from the TorchIO documentation.

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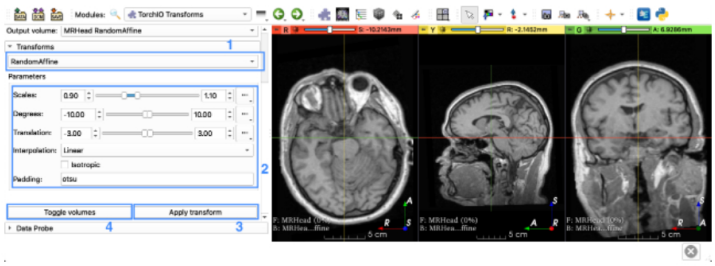

You can click on the `Toggle volumes` button to switch between input and output volumes.

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