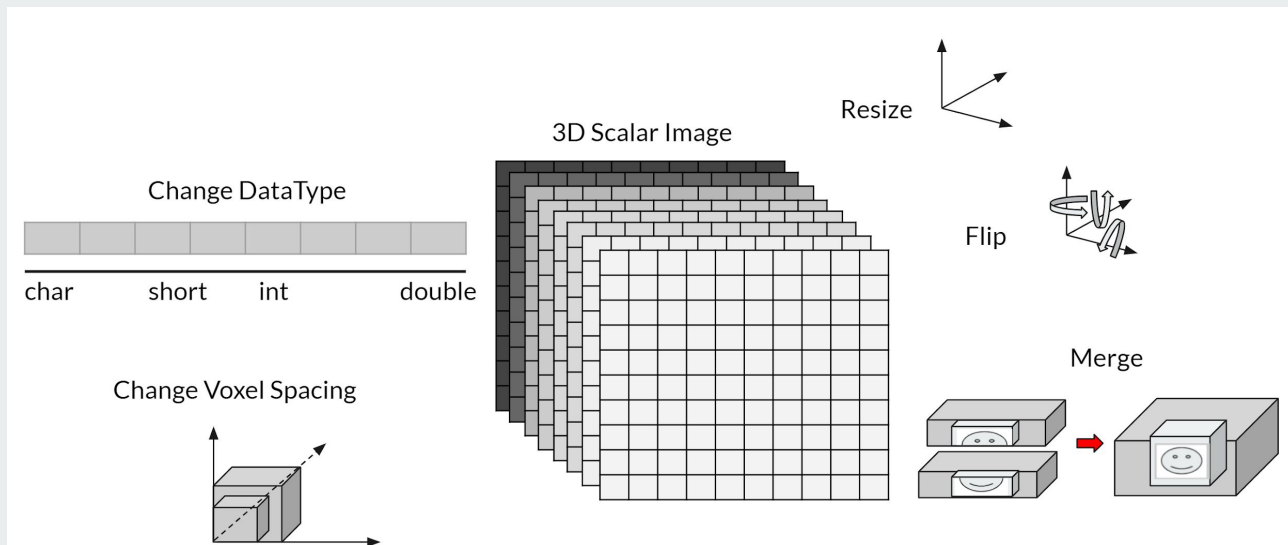




ImageModi Project



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Project Overview

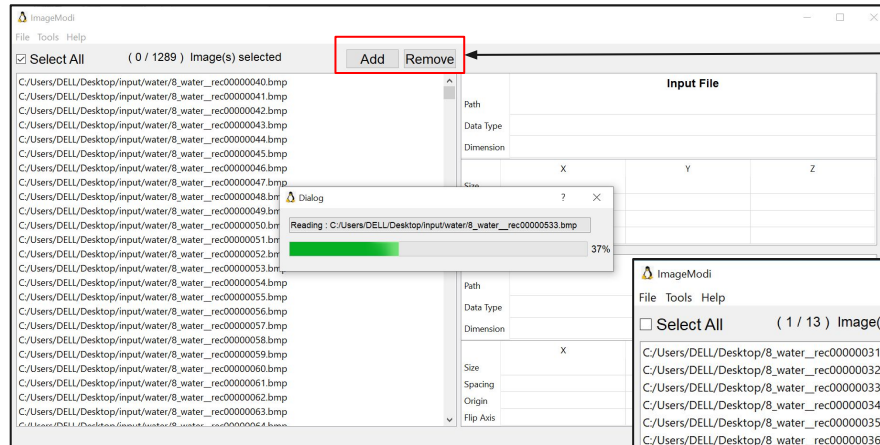
What is ImageModi?

- A program which modifies an attribute of 2D/3D Scalar Image.
- Modify Image Size, Voxel Type, Voxel Spacing, Image Origin, Image Axis, Image Dimension.

How to Use

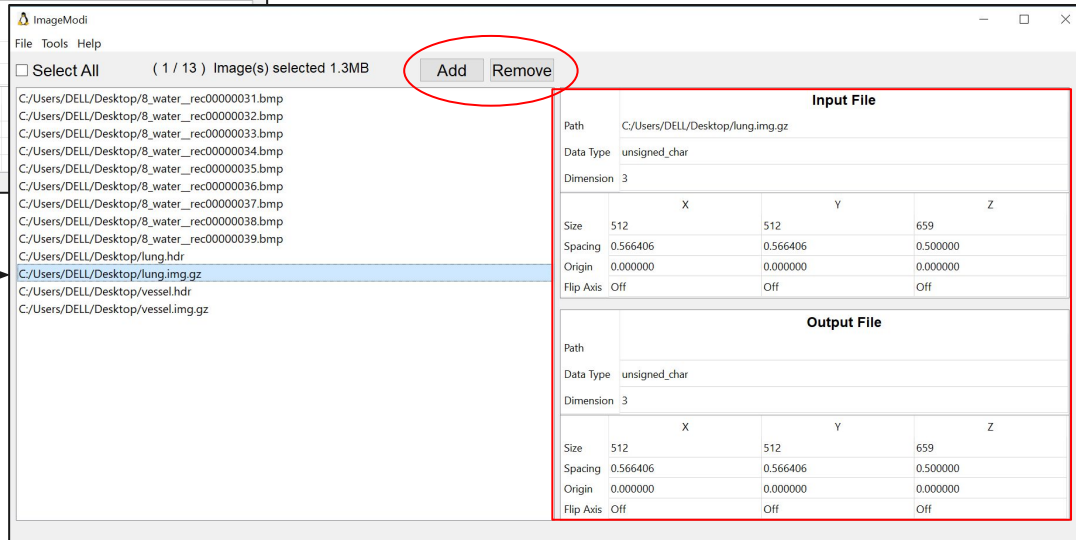
1. Click [File] > [Open Images]

2. Select image files to open.

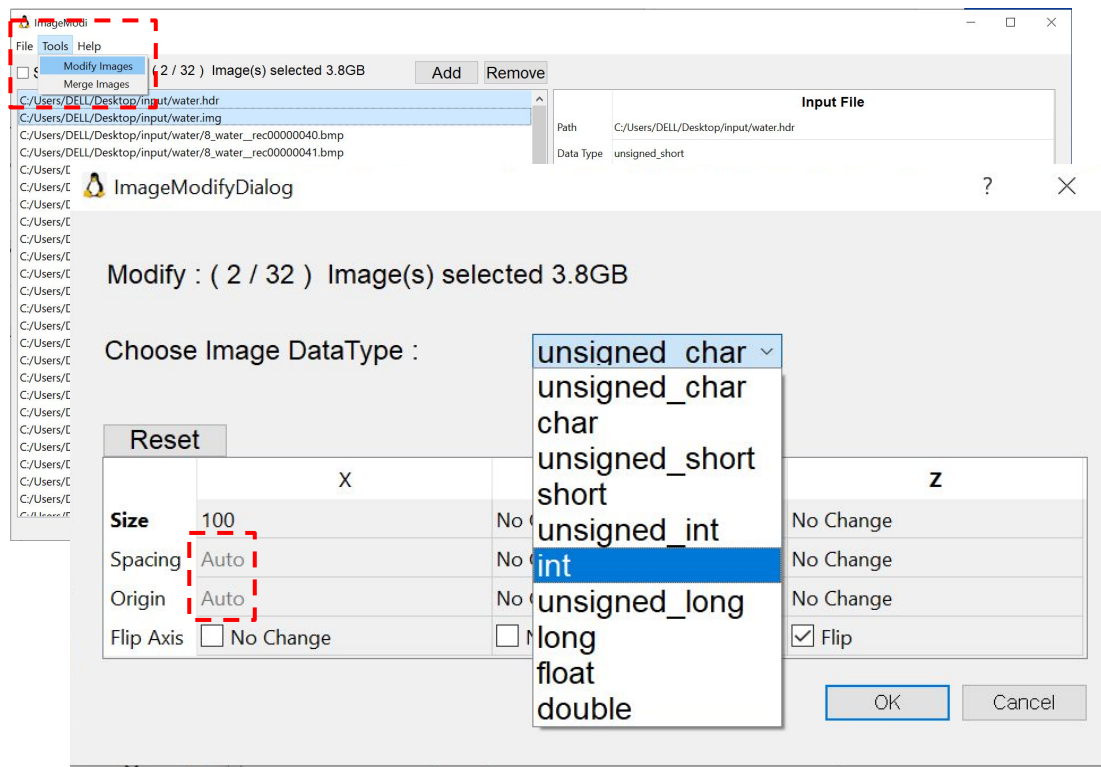


3. Add/Remove image files from list.

4. Click item to see file info



Modify Images

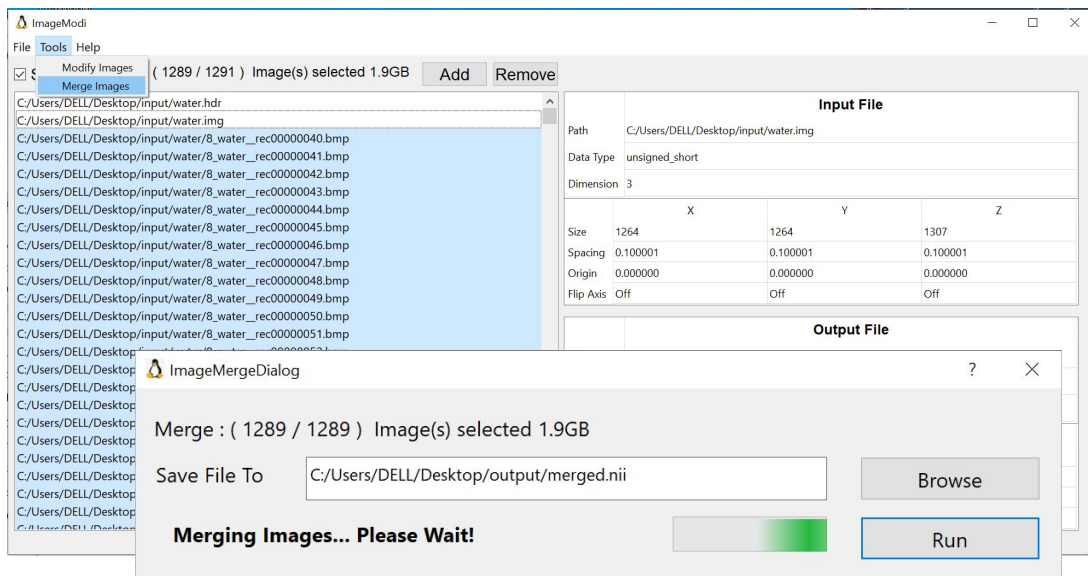


ImageModi modifies datatype, size, spacing, origin, axis of image.

Select Files to Modify and click [Tools] > [Modify Images]

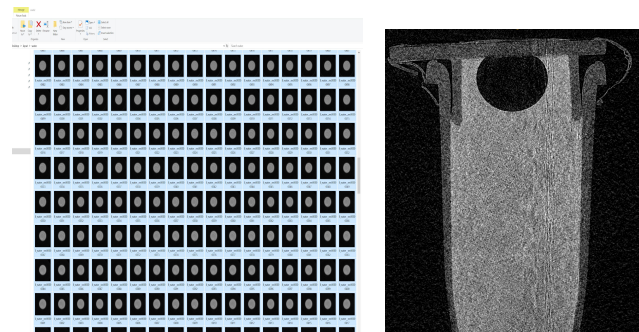
If user attempts to resize an image, spacing and origin will be automatically recalibrated by a program. User input for "Spacing" and "Origin" are set to "Auto".

Merge Images



ImageModi merges 2D images (png, tiff, bmp, jpeg...) to 3D volume image, or 3D images to bigger 3D images.

Select Files to Merge and click [Tools] > [Merge Images]

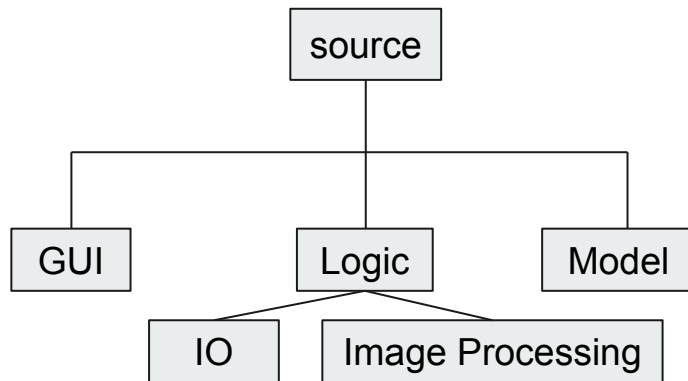


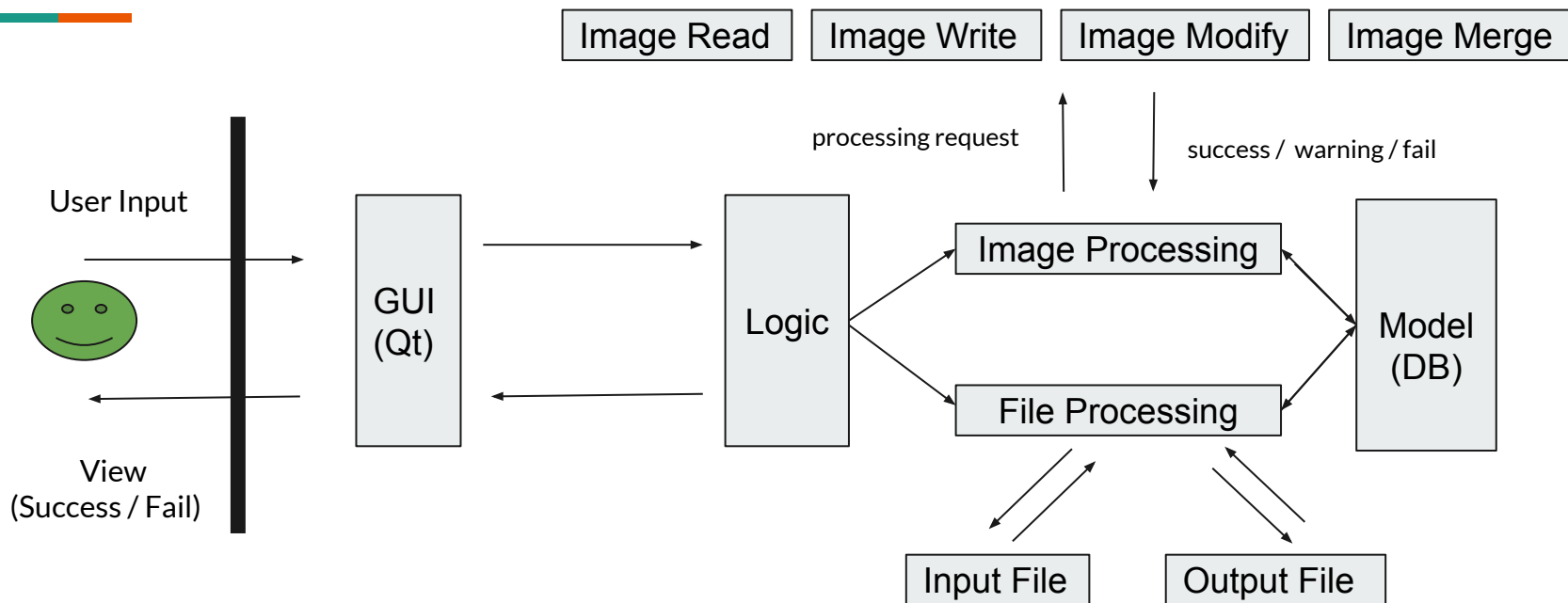
TIFF 2D images to 3D image

(Water in PCR tube, Korea Institute of Toxicology)

Development

- Source Code : <https://github.com/minseobi93/ImageModi>
- Written in C/C++
- MVC Design Pattern
- Multithreading while reading/writing files.
- Uses QT framework for GUI, ITK for Image Processing.







The End