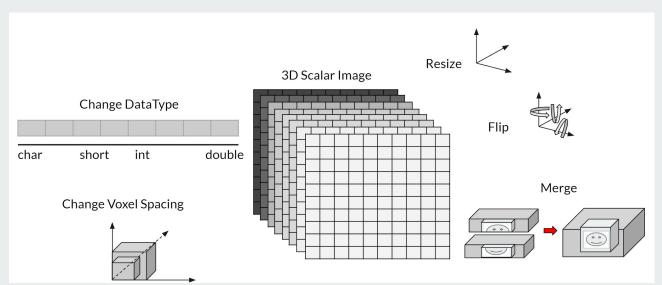
# ImageModi Project



2020.11.15 ~ 12.24

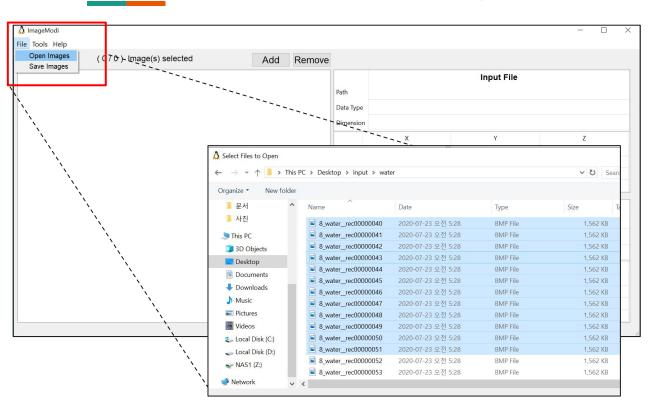
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## Project Overview

#### 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.

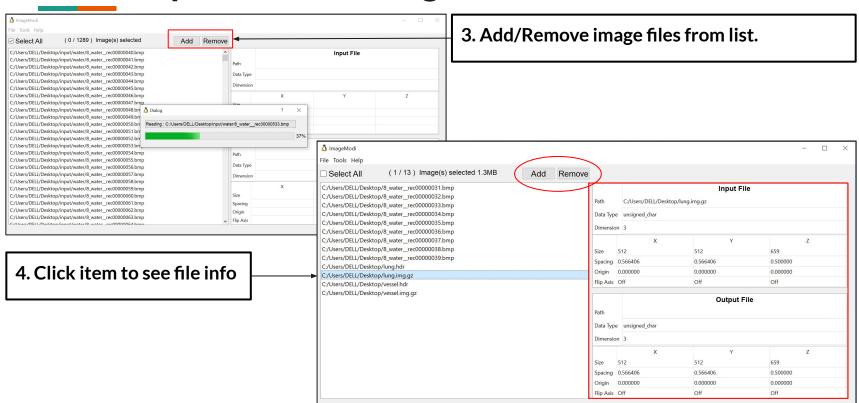
#### **Open (Read) Images**



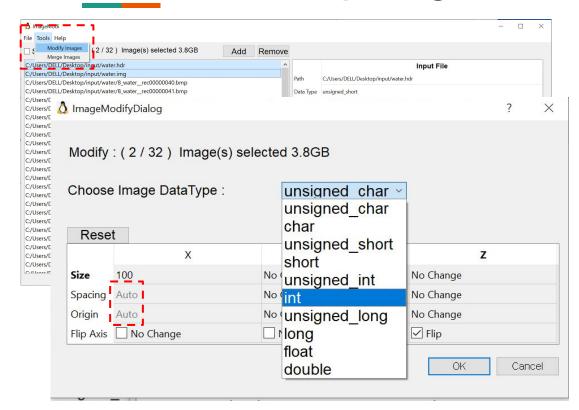
1. Click [File] > [Open Images]

2. Select image files to open.

#### **Open (Read) Images**



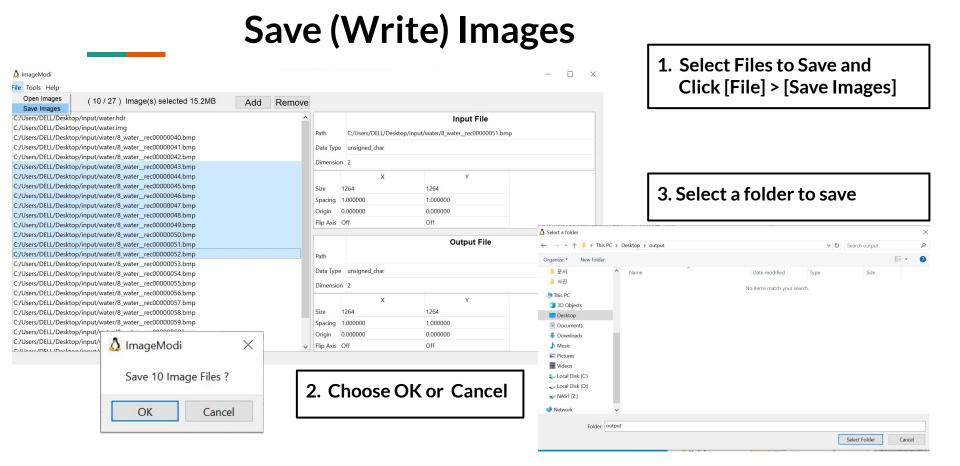
#### **Modify Images**



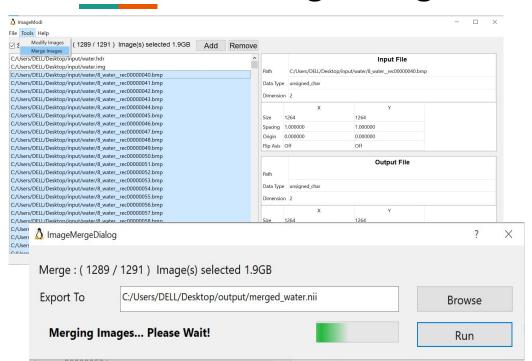
ImageModi modifies datatype, size, spacing, origin, axis of image.

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".

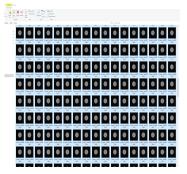


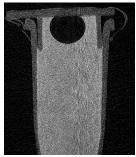
#### Merge Images



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]

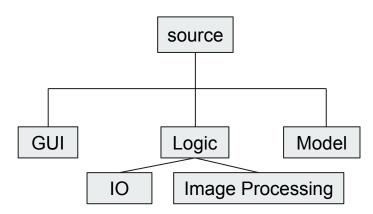


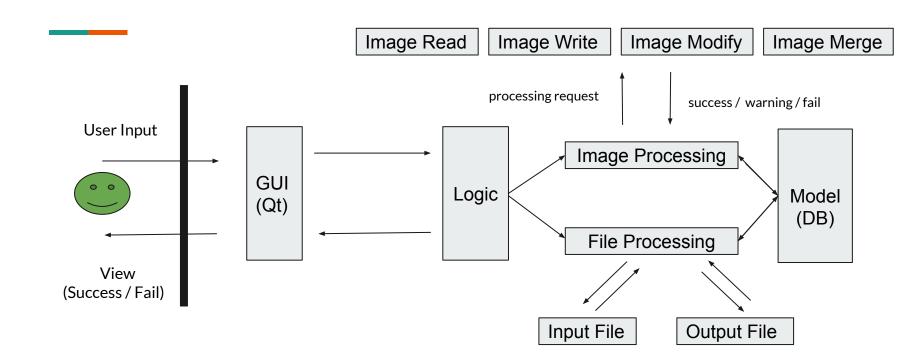


TIFF 2D images to 3D image
(Water in PCR tube, Korea Institute of Toxicology)

#### 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