

tilt series (.mrc or .ali file) and orthoslices (.rec file) load & save

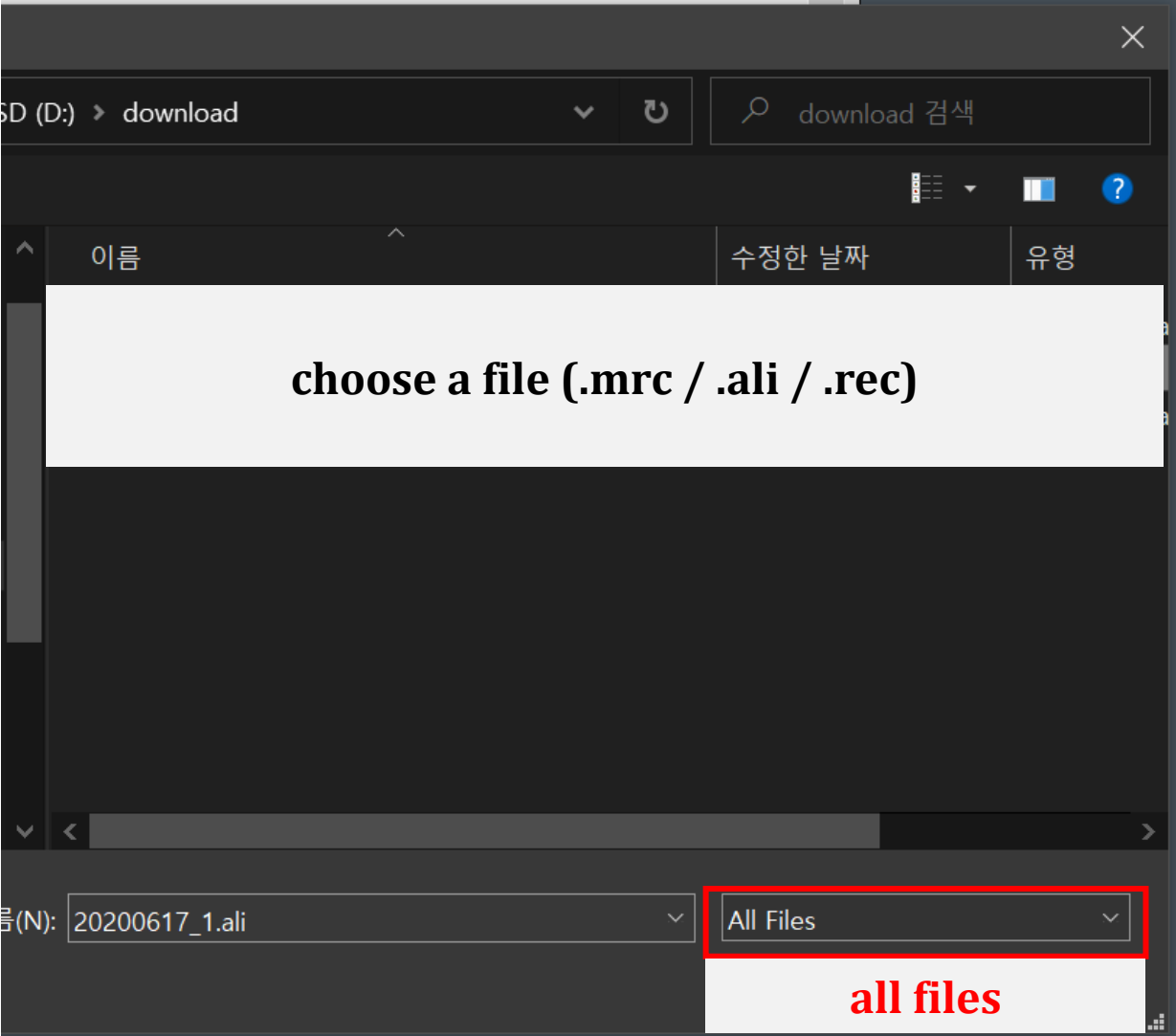
Requirements: Python-integrated GMS 3, Numpy, Mrcfile, Hyperspy



[others]_load_mrc_ali_rec.py



unchecked
"Execute on Background Thread"



tilt series (.mrc or .ali file) and orthoslices (.rec file) load & save

Requirements: Python-integrated GMS 3, Numpy, Mrcfile, Hyperspy

- tilt series (.mrc or .ali file)
- the calibration information have to be manually input

The screenshot displays the Hyperspy software interface. On the left, a sidebar contains several panels: 'Image Status', 'Display Control', 'Control', 'Slice' (highlighted with a red box), 'tilt angle' (in red text), 'Width: 1/101', 'Display Ce...', and 'Image Info'. The central window, titled 'B: tilt series', shows a grayscale image of a tilt series. On the right, an 'Output' window displays the following information:

```
<Signal2D, title: , dimensions: (101|1024, 1024)>  
tilt angles (degree)  
[ -4.9987633e+01 -4.8986282e+01 -4.7985905e+01 -4.6987968e+0  
 -4.5987595e+01 -4.4986240e+01 -4.3986355e+01 -4.2987442e+0  
 -4.1987553e+01 -4.0988155e+01 -3.9988754e+01 -3.8988380e+0  
 -3.7989956e+01 -3.6989578e+01 -3.5990669e+01 -3.4991756e+0  
 -3.3992844e+01 -3.2991982e+01 -3.1992580e+01 -3.0992205e+0  
 -2.9992317e+01 -2.8991453e+01 -2.7991566e+01 -2.6991678e+0  
 -2.5991302e+01 -2.4991415e+01 -2.3992016e+01 -2.2991640e+0  
 -2.1992239e+01 -2.0992840e+01 -1.9993441e+01 -1.8993065e+0  
 -1.7992689e+01 -1.6992313e+01 -1.5992426e+01 -1.4990098e+0  
 -1.3990211e+01 -1.2990322e+01 -1.1992387e+01 -1.0992498e+0  
 -9.9911470e+00 -8.9922352e+00 -7.9923477e+00 -6.9914842e+0  
 -5.9925723e+00 -4.9917083e+00 -3.9918208e+00 -2.9909570e+0  
 -1.9920453e+00 -9.9118161e-01 2.4321726e-02 9.9932206e-0  
 1.9996978e+00 2.9995854e+00 3.9994733e+00 5.0003371e+0  
 6.0002246e+00 7.0006003e+00 7.9995122e+00 9.0003757e+0  
 1.0000263e+01 1.1000152e+01 1.2000039e+01 1.3000415e+0  
 1.4000302e+01 1.4999702e+01 1.6000566e+01 1.6999966e+0  
 1.8000341e+01 1.8999741e+01 2.0000605e+01 2.1000004e+0
```

The 'Output' window also features tabs for 'Results', 'Notes', and 'Debug'.

tilt series
(scan_x × scan_y × angles)

tilt angles
(output - results)

tilt series (.mrc or .ali file) and orthoslices (.rec file) load & save

Requirements: Python-integrated GMS 3, Numpy, Mrcfile, Hyperspy

- input the box shape (ox, oy, oz) when importing .rec file
- the calibration information have to be manually input

