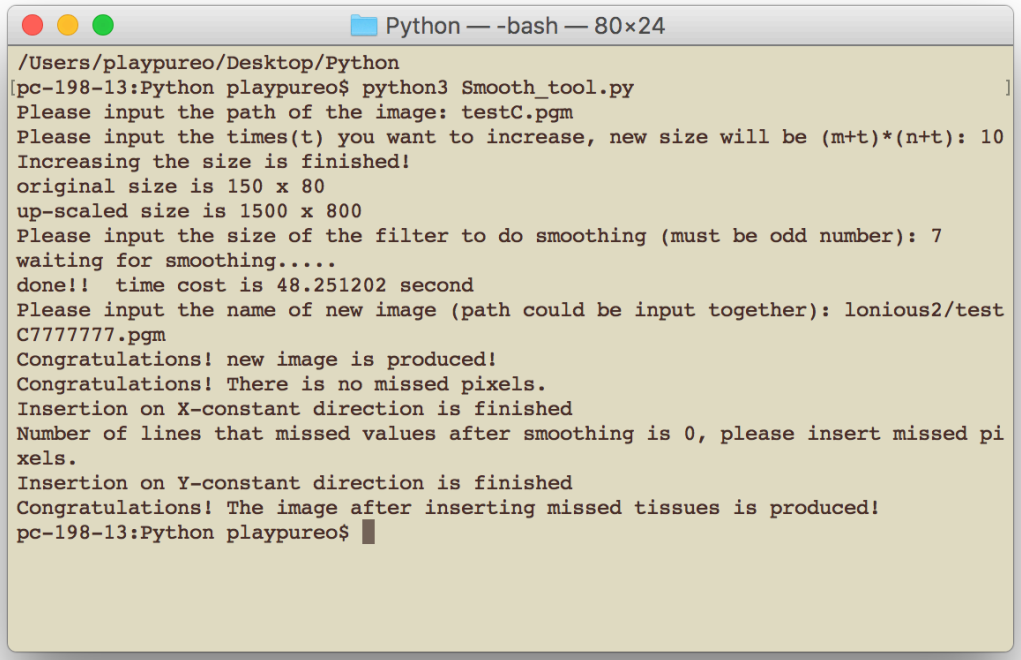
Readme

There are four python files (based on Python 3.6).

The most important file 'Smooth_tool.py' contains all needed functions. And the 'main' method guides users how to implement a whole process of smoothing including increasing image size, smoothing, checking for missed tissues. The following figure shows how does it works.



Other three files aextend.py, asmoothing.py, acheckforpixel.py are only used to increase image size, smooth, insert missed pixels respectively.

Readpgm function is used to read data from pgm images.

Pgm_extend function is used to increase image size.

Take_majority function is the smoothing method

insertMissedPixel1 function is used to insert missed tissues on x-constant direction.

InsertMissedPixel2 function is used to insert missed tissues on y-constant direction.

Smoothness function is used to see the level of smoothness

Threedtrans function is used to integrate top-view images and then produce new images on different plane.