Nodule_me.exe

USER GUIDE

VERSION 1.0

1. Install

1.1 download nodule me and unzip file.

Please download nodule me.zip at website.

Then you must unzip nodule me.zip by unzip tools. (7-ZIP etc.)

1.2 open unzipped folder and find nodule_me.exe.

Find <u>nodule me.exe</u> in unzipped nodule_me.zip file.

Double click to start Nodule me.

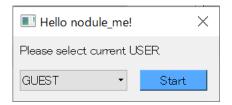
Please wait in a second to open the interface.

	1	· · · · · · · · · · · · · · · · · · ·	
.git	2019/12/26 10:31	ファイル フォルダー	
pycache	2019/12/26 12:24	ファイル フォルダー	
3000566-03192	2019/10/24 10:22	ファイル フォルダー	
build	2019/12/26 10:36	ファイル フォルダー	
classes	2019/12/17 0:51	ファイル フォルダー	
controller	2019/12/26 9:47	ファイル フォルダー	
📙 dist	2019/12/26 13:55	ファイル フォルダー	
document	2019/12/26 11:36	ファイル フォルダー	
groundtruth	2019/10/24 10:22	ファイル フォルダー	
handler	2019/12/12 14:41	ファイル フォルダー	
📙 io	2019/10/24 10:22	ファイル フォルダー	
model	2019/12/18 12:39	ファイル フォルダー	
nodules	2019/10/24 10:22	ファイル フォルダー	
Lest	2019/12/26 13:30	ファイル フォルダー	
📮 ui	2019/12/19 1:27	ファイル フォルダー	
uiew	2019/11/24 17:48	ファイル フォルダー	
igitignore	2019/12/23 2:58	テキストドキュメント	1 KB
nodule_me.qrc	2019/12/19 1:11	QRC ファイル	1 KB
main_noduleme.spec	2019/12/26 13:50	SPEC ファイル	1 KB
ui_hello.ui	2019/12/26 10:20	UI ファイル	2 KB
ui_pen_add.ui	2019/12/26 13:48	UI ファイル	2 KB
🌛 ui_hello.py	2019/12/26 10:30	Python File	2 KB
ui_pen_regist.ui	2019/12/26 10:30	UI ファイル	2 KB
🌏 ui_pen_add.py	2019/12/26 13:49	Python File	2 KB
🌛 ui_pen_regist.py	2019/12/26 10:30	Python File	2 KB
🌛 ui_label.py	2019/12/17 4:06	Python File	4 KB
ui_label.ui	2019/12/17 4:01	UI ファイル	4 KB
ver01.ui	2019/10/24 10:22	UI ファイル	5 KB
amain_noduleme.py	2019/12/26 9:56	Python File	6 KB
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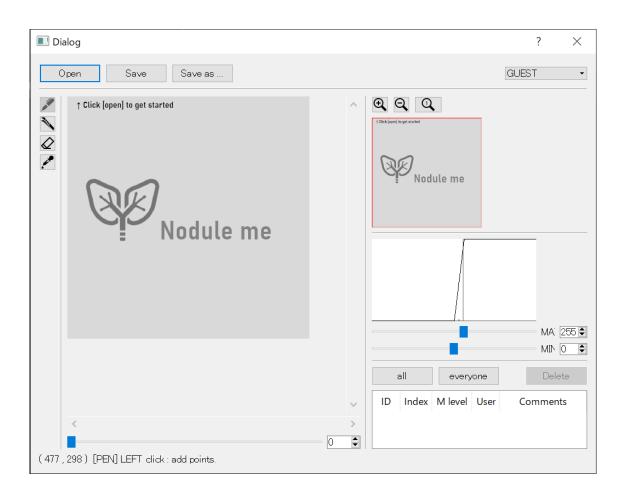
2. Start up

2.1 select current user.

Nodule me can use multi user. Please select your name in combo box. (You can also change user later.)



2.2 open main interface

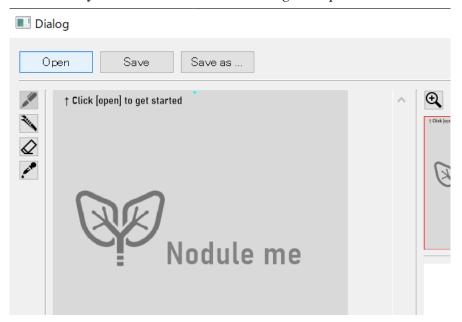


3. Open DICOM data

3.1 click [Open] button

There is [Open] button at top left diagonal.

Please wait just a moment until new dialog will open.



3.2 choose one of DICOM file.

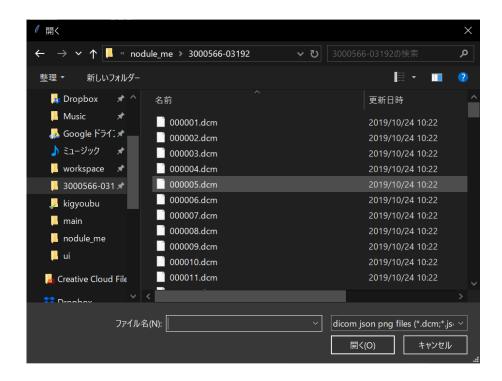
You select .dcm (DICOM) file.

ightarrow Demo file is in nodule_me/3000566-03192. Please try if you don't have any .dcm data.

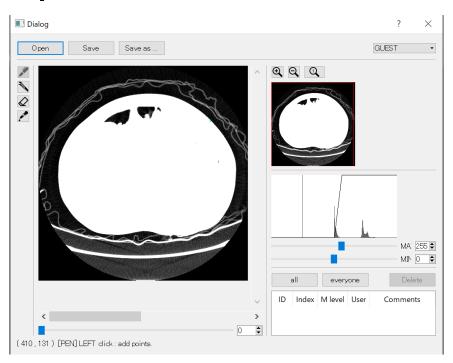
*Usually, one slice of CT scan images is associated with one .dcm file.

Whichever you choose .dcm file, you will have chosen all .dcm file in the folder.

(You can also choose .png and .json file.)



3.3 open DICOM data.

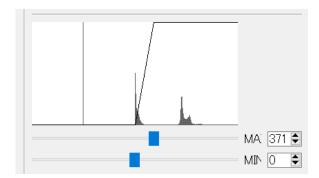


4. Contrast, Zoom and z-index.

• Contrast Adjustment function

Usually, DICOM data is 16bit but most display can only show 8bit. Horizontal length is [-2024 2024] (max and min of DICOM pixel array). Vertical length is [0 255] (max and min of display luminance). Histogram show value of DICOM pixel array.

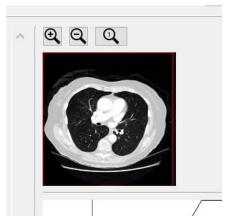
Please adjust contrast to your liking by moving below MAX/MIN slide bar.



• Zoom and Map function

You can zoom up/down by pushing button or mouse rotate mouse wheel.

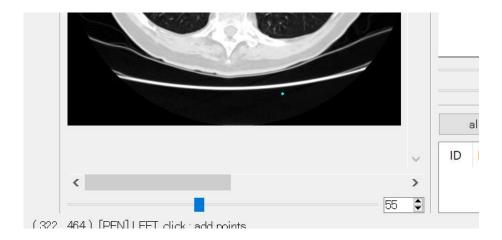
Also you can change area by dragging red square or scroll bar around canvas.



• Z-index function

Usually, CT-images is 3D volume data.

You can change z-index by index slide bar or spin box.



5. Labeling

5.1 set [PEN] tool

If you don't close PEN, please select PEN tool.



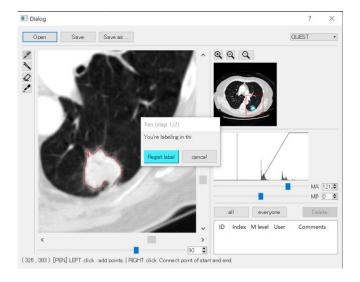
5.2 click canvas and add points of label.

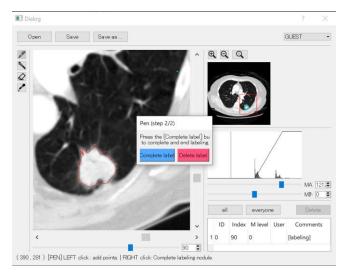
When you find nodule, please start to label by click in canvas. (After first pointing, pen dialog (step1/2) will be opened automatically. Please ignore until complete labeling in the silece.)



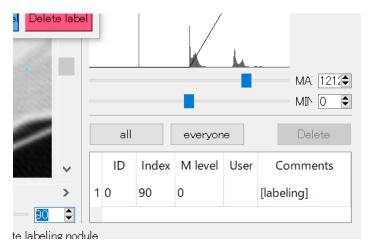
5.2 finish pointing of the slide.

When you finish labeling in one slide, click [Regist label] or right ckick. The start and end of your points will be connected automatically Temporarily, the label is saved but labeling has NOT completed yet.





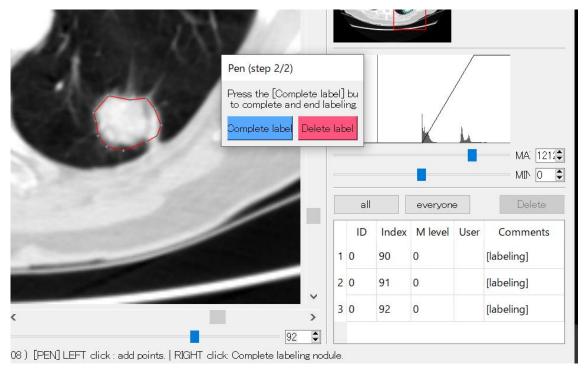
You can continue to label in other slices by click canvas.



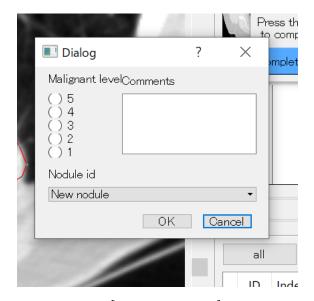
Temporary label is listed and saved.

5.3 labeling some slices and finish labeling

When you finish labeling all slices contain one nodule, please click [Complete label]. And fill out form about the nodule.



(Upper figure: There is 3 labels, you can set information at once by [Complete label])



Please fill out [Malignant level].

