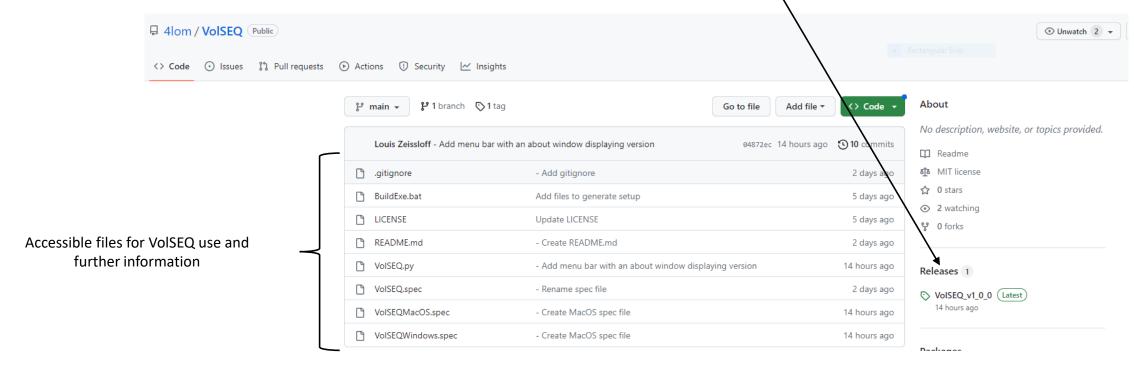
# VolSEQ user manual

Version 1.0.0 (2023)

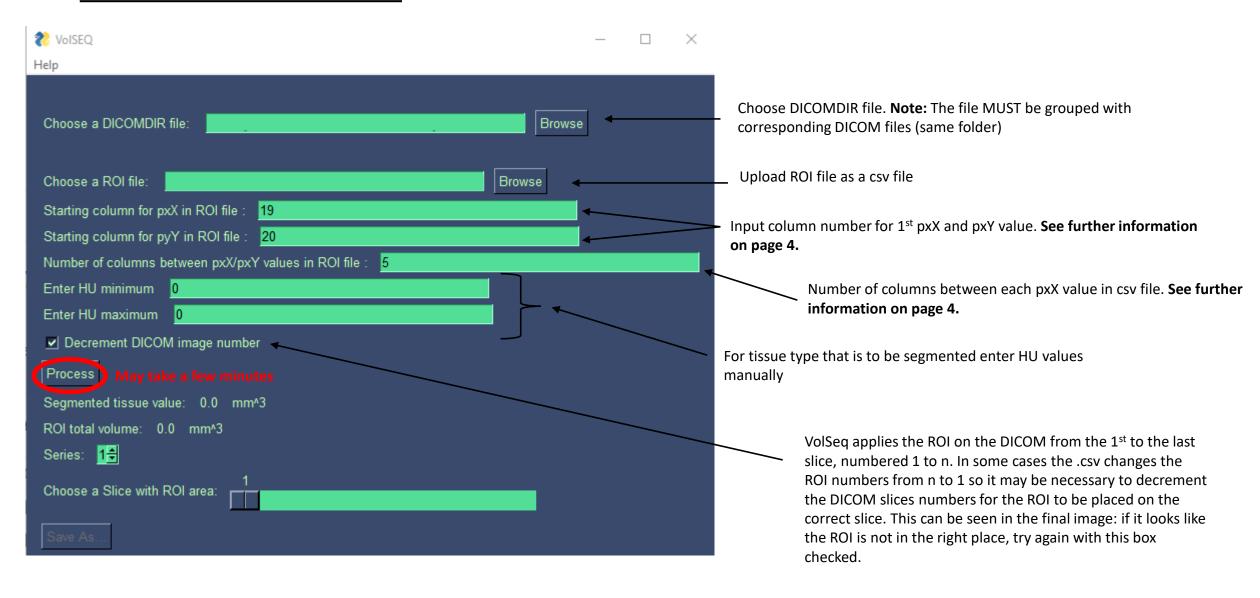
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#### **Installation**

- 1. Download link: → <a href="https://github.com/4lom/VolSEQ/releases/tag/v1 0 0">https://github.com/4lom/VolSEQ/releases/tag/v1 0 0</a>
- 2. Or via <a href="https://github.com/4lom/VolSEQ">https://github.com/4lom/VolSEQ</a>  $\rightarrow$  releases  $\rightarrow$  <a href="VolSEQv1">VolSEQv1</a> 0 0.zip
- 3. Install using VolSEQ.exe (win32) or VolSEQ.spec (macOS) file



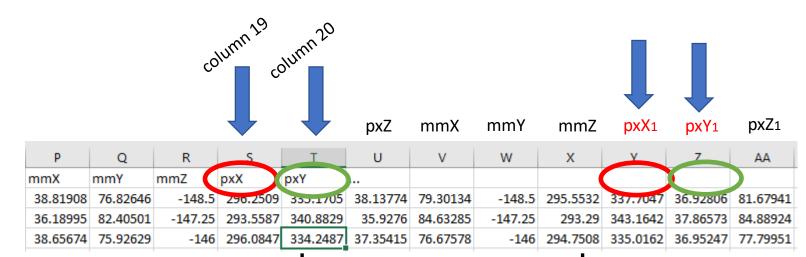
#### Interface: how to use it?



### .CSV file in excel: configuration of pxX and pxY values

The configuration of columns depends on the software where the ROIs are created and how this software converts the ROI values into a .csv file. If all ROIs have been done with the same software (and same version) this step can be applied to all the subsequent scans.

- 1. Open an ROI file converted into a .csv file
- 2. Find the 1<sup>st</sup> pxX and pxY columns. These have the values of the 'points' of the ROI.
- 3. Insert the column number for the 1<sup>st</sup> value of each into VolSEQ in 'Starting column for X' and 'Starting column for Y'. **E.g.** here it is columns S and T so 19 and 20.
- 4. Count the number of columns separating each pxX/pxY column and enter that number in VolSEQ. **E.g.:** pxX/pxY is repeated every 6 columns i.e: **5** columns separate each pxX/pxY point.



Example of csv file

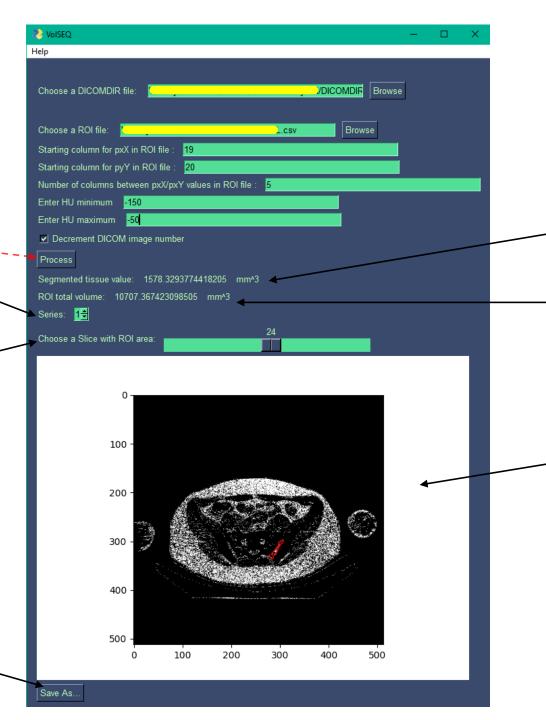
## **Example of output**

If there are multiple CT scans associated to that DICOM file, these can be chosen.

Note: if the series number is changed, the analysis has to be reprocessed.

Slide the bar to visualise the slices with applied ROI in the series

The chosen image can be saved here



Volume of segmented tissue of choice within ROI

Total ROI volume

Image of CT scan with ROI overlap (in red) and pixels of only segmented tissue (in white) all other tissue is black