About Labeling

In the first tab *Data Viewing*, you can perform labeling on images and record
it in a marking file. It is supported to draw and show labels in several layouts
in 2D. But for a better performance, it is worth recommendation to label in
only one layout. Initially, the labeling tools are disabled, until you select on
labeling. In the meanwhile, it is not possible to use the image editing tools,
including open new images or result file and switching between 2D and 3D.
While labeling, there is a label list showing the label names and on which
layer on the current image set.

1. Draw labels
   You can choose the label shape as rectangular or ellipse. Further, you
   can draw lasso along the contour of a target mask. Then, you should
   press *Enter*, there will be a pop up label window, you can select or type
   in the label name. Besides, you can also select the color of the label.
   After confirm it the face color of the new mask will be changed to the
   selected color. And the label name and color will be saved.

2. Draw default labels
   If you want to continuously draw one kind of label, you can check on
   Default Label. The color of this label is set to be default color. Then,
   every time you want to save the mask you have drawn, just press *Enter*,
   and you do not need to select the name and color in label window again.
   The default labels can be defined in a predefined label list. You can set
   label names and colors in the menu *Settings -¿ Labels*. And you can
   also add new terms in the table.

3. Edit labels
   Every confirmed label will be saved and shown in the label list, if you
   select the mask, the corresponding item in the label list will be also
   selected. Once a label is selected, if it is in the shape of rectangular
   or ellipse, you can change the shape size and move it. You can again
   press *Enter* to change the label name and color, in the same way as
   creating labels. In another way, you can double click the item in the
   label list and then edit the name and color.

4. Show on/off label
   You can set every individual label showing on/off by checking it in the
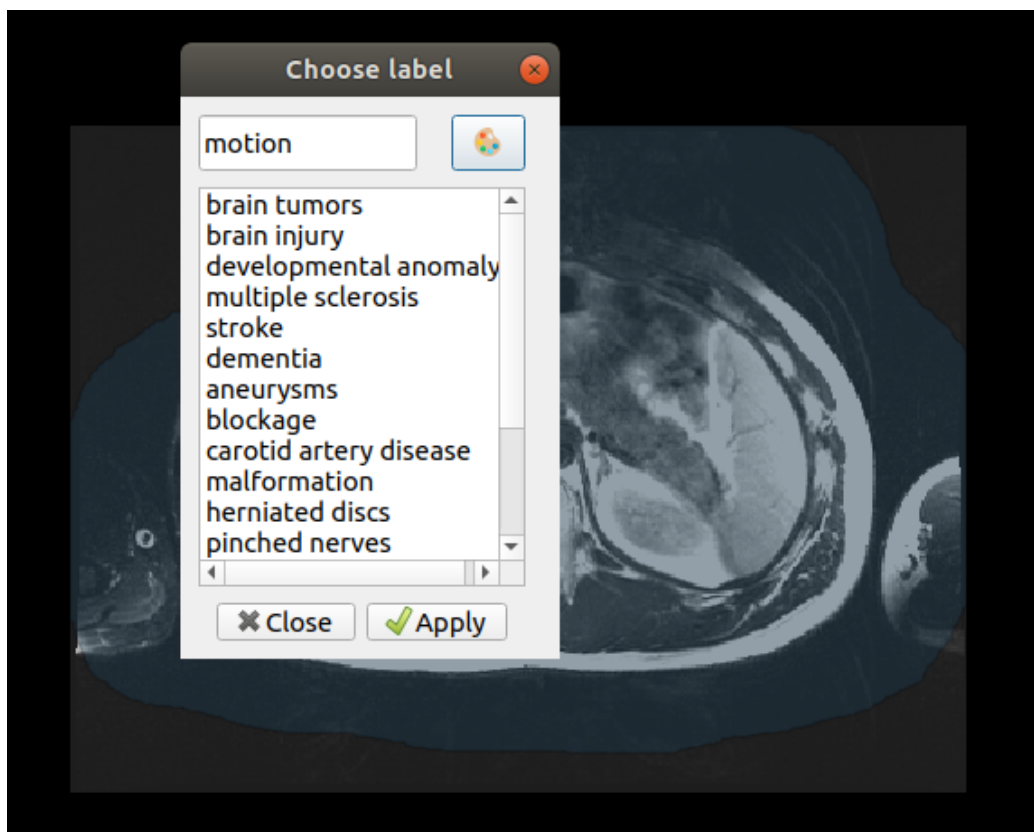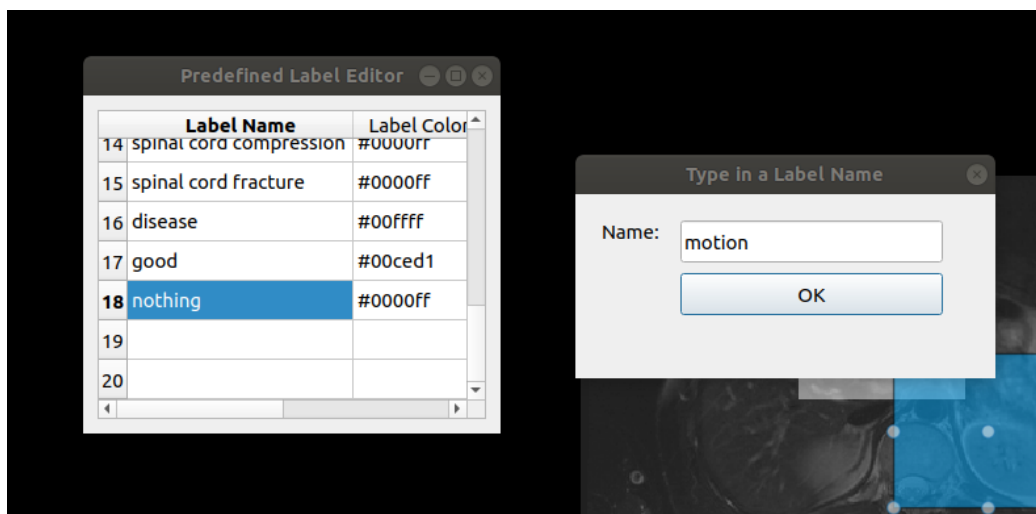
Figure 1: Create Label
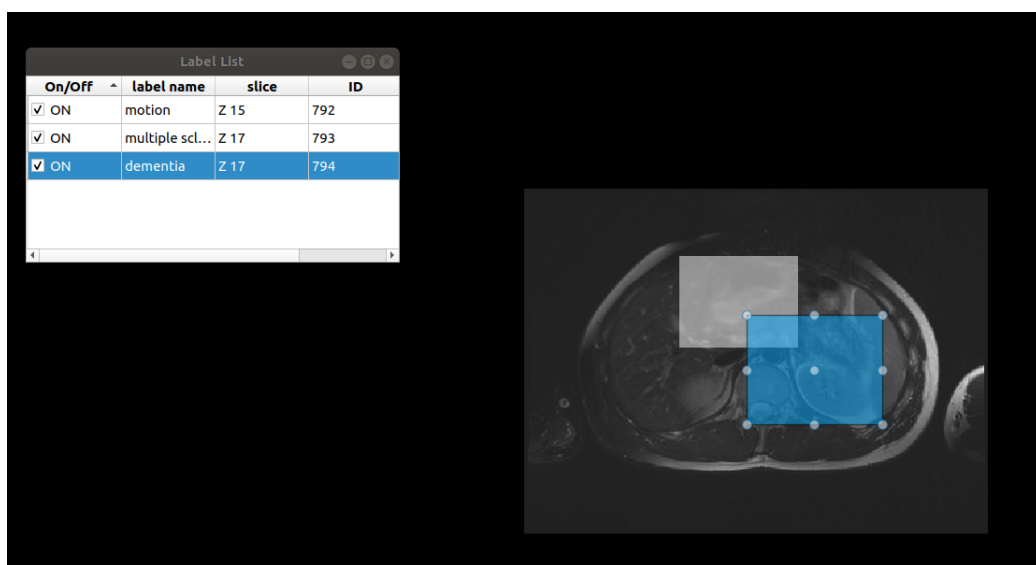
Figure 2: Edit Default Label

Figure 3: Edit Label

label list. Further, if you want to hide most of the labels, except only a few labels to show on, you can click the *View all on/off* button, then select the ones to show, vice versa.

5. Delete label
   If you want to delete a label, select it in the label list or the shape (both are synchronized), and click the button *Delete the selected label*, the label will be moved both in picture and in storage. As for shortcut, you can press key *Delete*, it will perform removing label int he same way.

6. Show cross hair
   As for assistance, you can check on *Cross hair* to draw shape with the indication of cross hair around cursor.

7. Add label file
   Click the button *Open label file*, you can add another label file in the format .CSV with the same structure as the one used currently. The file will be shown in the drop down list at the bottom, and the current label list will be shown based on the selected label file.

8. Open label list
   If you close the label list, you can reopen it by clicking the button *Show label list*.