

# Pixel Labeler User Guide

PixelLabeler.exe is a segmentation labeling tool based on MIL SP4. This tool was developed for internal needs, and is made available as-is to the MIL user community.

To launch the tool, please follow the instructions below:

- 1- Make sure that MIL SP4 for Window 10 64-bit is installed on your PC.
- 2- Create a working directory (new folder), download the executable and copy it into the new working directory.
- 3- Create two new folders inside this new directory: "source\_directory" and "destination\_directory"
- 4- Copy the images that need to be labeled in the "source\_directory"
- 5- Launch "Command Prompt" and move to the new working directory using this command:

```
cd /d path_to_working_directory
```

- 6- Then, to start the tool, use the following command in "Command Prompt":

```
PixelLabeler.exe source_directory destination_directory number_of_classes
```

The source directory is the directory where the images that need to be labeled are stored.

The destination directory is the directory where the labels will be stored. This directory can be empty when you first launch the tool. If the customer wants to finetune or modify the labeling, the labels saved in this directory will be loaded again.

The number of classes is the number of classes in your dataset including the background.

- 7- Once the application is launched, the following keymap will appear:

```
KEYMAP:
=====
Mouse right click      :: Brush the canvas
Brush modes            :: (1) Circle, (2) Square
Next image             :: Right arrow (->)
Previous image         :: Left arrow (<-)
Increase class index   :: Up arrow (^)
Decrease class index   :: Down arrow (v)
Save labels and next image :: Space bar
Eraser                 :: E
Clear the canvas       :: C
Increase brush size    :: F
Decrease brush size    :: D
End without saving     :: Esc

Press <enter> to start.
```

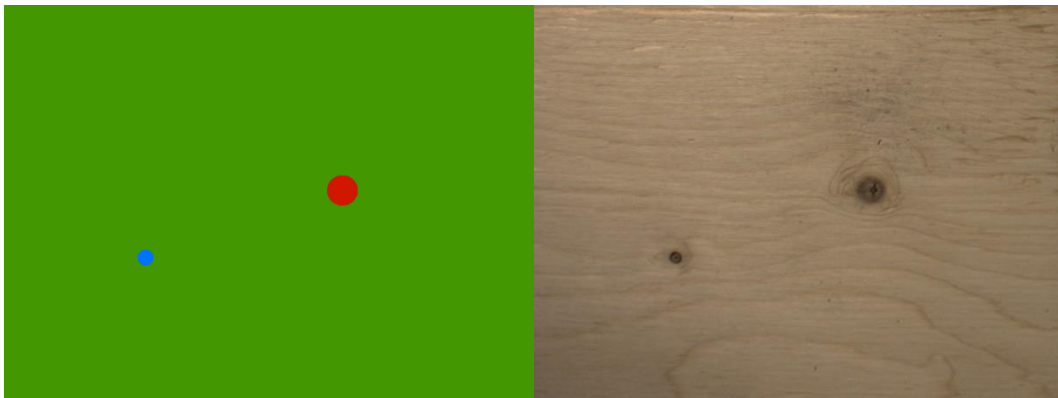
Take a few moments to understand the key map.

8- Press “Enter” and start labeling.

Comments:

- A lookup table is associated with the labeled images saved. The index values are mapped as so:

Value	Color
0	Green
1	Red
2	Blue
...etc.	...etc.



- To be on the safe side, the user should frequently validate that their labels are saved properly by inspecting the destination folder. They should also back up their labels every time they want to relaunch the app.