

Image Tagging

Sloth

Setup

In order to tag images, we use a piece of software called Sloth. To install it from the robosub debian repository, run the following command:

```
sudo aptitude install sloth
```

Using Sloth

To use sloth and start tagging images, you can run the following command.

```
sloth -c /path/to/vision_dev/sloth/robosub_config.py  
/path/to/annotation/file
```

-c Is a flag to give the path to a configuration file. This file is provided in the vision_dev/sloth directory. The path you provide should point to this file.

The last argument is a path to an annotation file. This is most likely named something like `labels.json`. You will need to provide this path in order to tag images.

Should you find this tedious, there is a script in the sloth directory of the vision_dev repository which performs some of this for you. It can be used as follows:

```
./robosub_sloth.sh /path/to/annotation/file
```

This removes the need to add the -c flag repeatedly. This script can also be symlinked to without issues.

Sloth Keybindings

The full list of keybindings used in sloth can be found in the [robosub_config.py](#) file near the bottom. A shorthand list is provided below

Default keybindings

- **Space** Mark image as labeled/confirmed and go to next

- **Backspace** Next image/frame
- **PgDown** Previous image/frame
- **PgUp** Previous image/frame
- **Tab** Select next annotation
- **Shift+Tab** Select previous annotation
- **Ctrl+f** Fit current image/frame into window
- **Del** Delete selected annotations
- **Esc** Exit insert mode
- **Shift+l** Mark current image as labeled
- **Shift+c** Mark all annotations in image as confirmed

Robosub Specific

- **F5** Toggle the visibility of label names on annotation boxes
- **Ctrl+Shift+Del** Delete all annotations from the current image and mark it as unlabeled
- **c** Copy all annotations from the previous image to this one
- **n** Mark image as labeled/confirmed and copy annotations to next image.
(Equivalent to **Space** then **c**)

Annotations

- **s** Start Gate Post
- **p** Path Marker
- **t** Torpedo Target
- **1** Die 1
- **2** Die 2
- **3** Die 3
- **4** Die 4
- **5** Die 5
- **6** Die 6

Sloth Mouse Controls

While creating annotations, the following are useful mouse controls.

- **Right Click and Drag**

Resize an annotation. Resizing is based upon the quadrant of the annotation clicked on.

- **Ctrl+Left Click**

Select multiple annotations at once.

From:

<https://robosub.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

Permanent link:

https://robosub.eecs.wsu.edu/wiki/cs/vision/image_tagging/start?rev=1519833606



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