Image Labeling

Overview

LabelImg is a graphical image annotation tool and label object bounding boxes in images.

Setups before running

Download LabelImg software from <u>the link here</u> .

If you use Linux system, write the labelImg function into bash file to easily call it when you want to use it.

Change the contents of LableImg/data/predefinedclasses.txt into

```
RedLeft
Red
RedRight
GreenLeft
Green
GreenRight
Yellow
off
```

Basic Steps

Once you extracted all the images, open the LabelImg tool that you've downloaded.

Then, draw bounding box based on these labels:

▼ The basic short-cuts of labelImg

    D   View next page

    A   View previous page

    W   Draw bounding box

    Ctrl+S Save the box for every image labelled.

1. Open LabelImg by command line.

2. Open Dir where you want to label the image (e.g. image_Aug7).

3. Change Save Dir where you want to store annotation (usually create a folder image_Aug7_label).

4. Press D & A to roughly view the image.

5. Go to first traffic light, by clicking W to create annotations.

6. Lable and save traffic light annation in each image and until end of image file.

7. Check the annotation file correct and saved.

Key Points

Instruction: focus on these scenarios:

1. Day (RedRight)

2. Day (GreenRight)

3. Night (RedLeft)

4. Night (GreenLeft)

5. Mutiple traffic light includes arrow

It will generate xml files. Ensure all the xml files were named the same as the image file.

Use text also.