**Instructions for Generating Ground Truth on TWPD Images**

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<https://github.com/donpathirage/Image_Labeler/blob/master/README.rst>

**Week 1**

1. See the link above on setting up and using the image annotation tool.

2. Afterward, refer to the Week 1 section of the 'workDivision' excel file of this repository, and log in to SharePoint from your TTU email (top left apps icon). Download the respective SD\_XX folder from Documents/General/TPWD\_Images/New\_Dataset.

**Note:** These files are rather large, so download them over Campus WiFi if your Internet is slower.

3. Unzip the downloaded file and place SD\_XX in the 'data' folder of this repository.

**Note:** XX is a stand-in for number of your SD card.

4. Run the program and Open Dir to data/SD\_XX/SD\_XX\_100EK113.

5. Set the Change Save Dir to SD\_XX\_100EK113\_Labels.

**Note:** The 'exampleData' folder contains an example of how your labeled data (xml files) should be generated and collected. You can view these in the program by changing Dir to them.

6. Make sure 'Auto Save mode' is check marked under the 'View' drop down menu.

7. For each image create a bounding box on any observed animal(s) and select the most appropriate label for it. If the image is empty, place a bounding box around the green watering hole and select 'empty'.

**Note:** Refer to the ‘Hotkeys’ section of the link above to speed up the process. Expect to spend about 30 seconds to a minute on each image. Use the 'A' and 'D' keys to flip back and forth between images. You should be able to quickly notice any changes between images which could potentially be animals.

**Note:** If you had difficulty labeling a particular image with a bounding box, check mark ‘difficult’ under ‘Box Labels’ for that bounding box. For example, observe the labeling for SD\_05\_100EK113/EK000454.JPG in the ‘exampleData’ folder.

8. Once you have completed labeling your allotted set of images, zip the SD\_XX\_100EK113\_labels folder and email it to d.pathirage@ttu.edu. These will be uploaded to their respective folders in SharePoint for Week 2.

**Week 2**

1. Refer to the Week 2 section of the 'workDivision' excel file of this repository and download the respective SD\_XX folder from New\_Dataset from SharePoint.

2. Place this unzipped folder in the 'data' folder of this repository.

3. Run the program (refer to the link above) and Open Dir to the new downloaded /data/SD\_XX/SD\_XX\_100EK113 folder and Change Save Dir to the SD\_XX\_100EK113\_Labels folder.

4. Browse through these images and label them with bounding boxes in the same manner as Week 1.

5. Once completed, zip the SD\_XX\_100EK113\_Labels folder and email it to [d.pathirage@ttu.edu](mailto:d.pathirage@ttu.edu).

Thank You!