

Preparing files for training two datasets in Darknet framework

In order to train on two datasets from *Section-4* and *Section-5* of the course, we need to copy two *data* files (*custom_data.data* and *ts_data.data*) from these two datasets into existing *cfg* folder inside root *Darknet* directory.

In Section-4, dataset for Car, Bicycle wheel and Bus was created. In Section-5, dataset of Traffic Signs was created. For every dataset were created four files that are described below.

Car_Bicycle_wheel_Bus/

Four files

- custom_data.data
- classes.names
- train.txt
- test.txt

ts/

Four files

- ts data.data
- classes.names
- train.txt
- test.txt

Every *data* file consists of five lines: number of classes, full path to *train.txt* file, full path to *test.txt* file, full path to *classes.names* file, and folder where trained weights will be saved.

Car_Bicycle_wheel_Bus/

custom_data.data

- classes = 3
- train = /home/my_name/train.txt
- valid = /home/my_name/test.txt
- names = /home/my_name/classes.names
- backup = backup

ts/

ts data.data

- classes = 4
- train = /home/my_name/train.txt
- valid = /home/my_name/test.txt
- names = /home/my_name/classes.names
- backup = backup

Files classes.names consist of objects' names that are used for training and detection.

Car_Bicycle_wheel_Bus/	ts/
classes.names	classes.names
CarBicycle wheel	- prohibitory - danger
- Bus	- mandatory - other

Files *train.txt* and *test.txt* consist of full paths to appropriate images.

Car_Bicycle_wheel_Bus/	ts/
train.txt - /home/my_name/images/image001.jpg /home/my_name/images/image600.jpg	train.txt - /home/my_name/ts/image001.jpg /home/my_name/ts/image600.jpg
test.txt - /home/my_name/images/image601.jpg /home/my_name/images/image800.jpg	test.txt - /home/my_name/ts/image601.jpg /home/my_name/ts/image800.jpg

Copy-paste data files into cfg directory

Copy and paste two *data* files: *custom_data.data* and *ts_data.data* from two datasets into existing *cfg* folder inside root *Darknet* directory.

Car_Bicycle_wheel_Bus/	darknet/
custom_data.data	cfg/
	custom_data.data
ts/	ts_data.data
ts data.data	