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% Purpose
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The purpose of this code is to train a residual network for image steganalysis. The implementation is based on the MatConvNet platform.

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% Files
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test_resnet: this is the main function, which can be used to learn a new model to detect a given steganographic algorithm. In our implementation, **cover images and stego images are required to be paired in training and testing**.

cnn_steganalysis_setup_data: the function to determine training samples and testing samples. In our implementation, '1' represents the training sample while '2' represents the testing sample.

res_init: the function implements residual network for image steganalysis.

getBatchFn, getDagNNBatch: the function to read images from specified paths

setup: the function to setup environment for the proposed model

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% Folders
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dependencies: this folder contains basic functions of constructing a CNN model with the MatConvNet platform. It contains two sub-folders, i.e. matconvnet and vlfeat. These files can be downloaded from following links:
vlfeat: http://www.vlfeat.org/
matconvnet: http://www.vlfeat.org/matconvnet/

model: the trained model will be saved in this folder.

utils: the folder contains model training function and some functions for image pre-processing