

```
53 %%
54 %Update the Files property of the datastore with the resized filenames
55 resizedDataset = resizeDataset(files, 0, numFiles);
56 resizedDataset.Labels = labels;
57 inputSize = size(imread(resizedDataset.Files{1}));
58
59 %Transform image into 1D array of pixel values
60 trainImages = transformImagesTo1D(inputSize, resizedDataset);
61 %Change labels to binary values indicating the images class with a 1 in the
62 %corresponding row indicating the sky type
63 numClasses = 15;
64 trainLabels = transformLabels(resizedDataset.Labels, numClasses);
65
66 trainSkyNetwork(neurons, funcs, funcNames, trainImages, trainLabels, 0);
```