We distinguish between known and unknown traffic sign classes. In traditional classification methods, unknown traffic signs such as "STOP" end up anywhere in the feature space. Therefore, these classes are hard to separate from the known training classes (speed limits). With open world recognition methods, unknown classes are well-separated from known classes. Further, the individual known classes are clustered together in feature space, so that they can be easily recognized.

**Objective:**
We want to categorize several known traffic sign classes. Further, there might be several novel traffic sign classes which only occur during test time. Therefore, we additionally want to detect if a traffic sign image is novel or not.

This project should be implemented in Python and Tensorflow and can be scaled according to your requirements.

**Qualifications:**
- Interest in Computer Vision/Machine Learning.
- Basic programming skills.

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