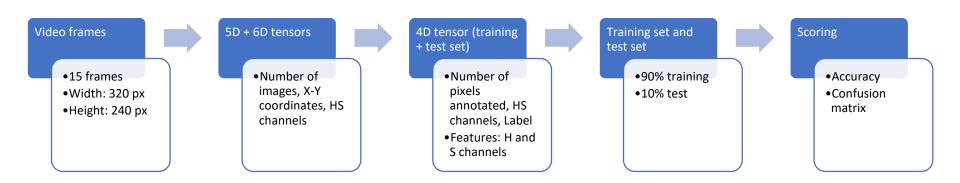


Segmentation – Robótica y percepción computacional Luciano Garcia-Giordano (150245)

Gonzalo Flórez Arias (150048)

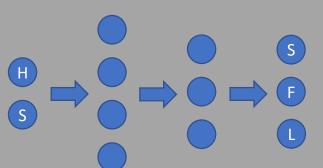
Salvador González Gerpe (150044)

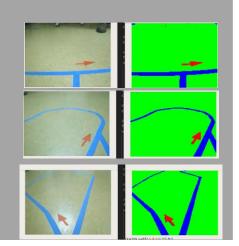
Dataset generation



Classifiers

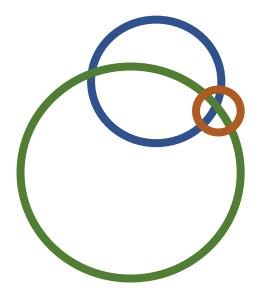
Classifier	Result
Distance-based classifier (Euclidean distance)	Bad results, poor learning
Gaussian Naïve-Bayes	Bad results, poor learning
2-layer MLP (8,8)	Overfit
2-layer MLP (4,3), ReLU activation	Very poor learning (underfit)
2-layer MLP (4,3), identity activation	Very poor learning (underfit)
2-layer MLP (4,3), sigmoid activation, regularization	Best until now





Problems

Symbol data is difficult to obtain



Segmentation is still poor. Factors still to enhance:

- Dropout
- Other activations
- More data of symbols (red)
- Parallelization of the classifier