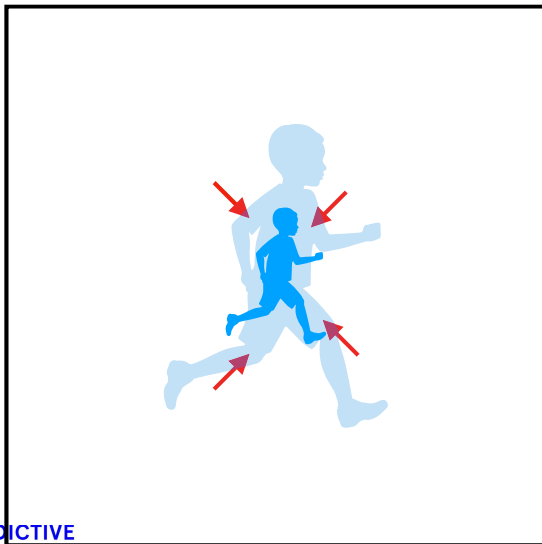
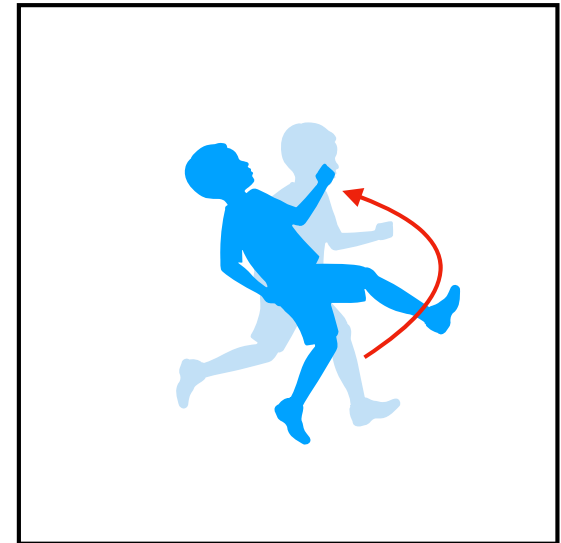
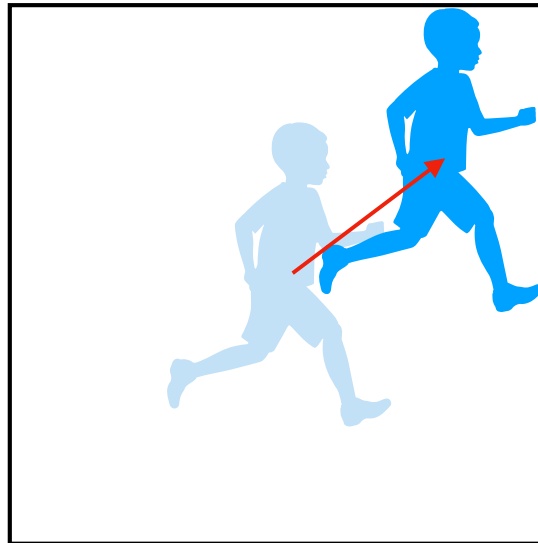
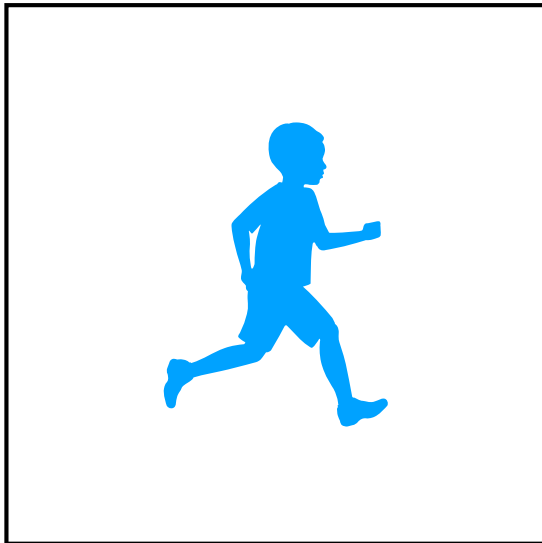


Lecture 25: Deep neural networks continued

Professor Ilias Bilonis

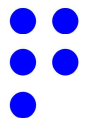
Exploiting symmetries via data augmentation

Invariance of labels



- there are certain transformations that can be applied to the input data that will leave the output data invariant, and these can be exploited to enlarge the data set for training

All these are classified as “boy.”



Idea in data augmentation

