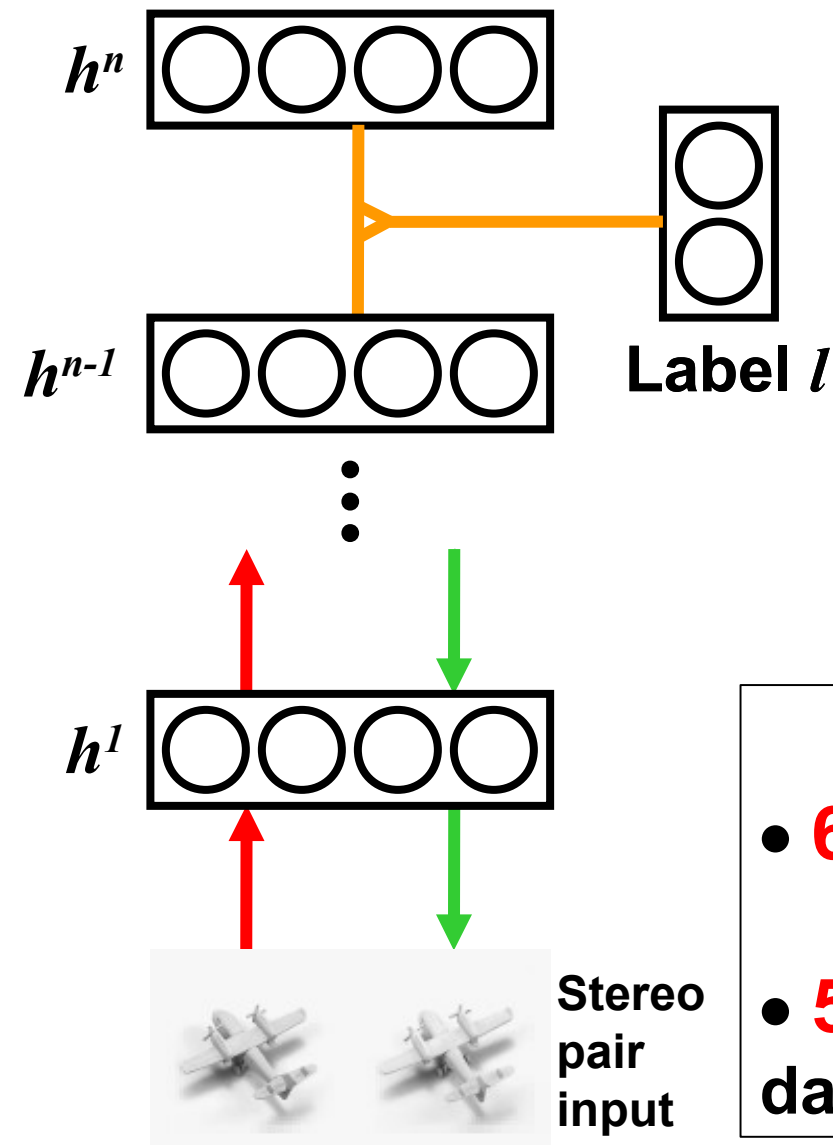


# 3D Object Recognition with Deep Belief Nets

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## New things

- Third-order Boltzmann machine model at the top.
- Hybrid gen. + disc. learning algorithm for the top-level model avoids poor mixing.

## Results on NORB

- **6.5% error** (conv. NN = 5.9%, SVM=11.6%).
- **5.2% error** with lots of **unlabelled data** + **semi-supervised learning**.