Recap

- Dynamic rule
 - Asynchronous updates
 - Synchronous updates

Practice: **Asynchronous** updating using the dynamic rule

Practice: **Synchronous** updating using the dynamic rule

Further intuitions



Further intuitions



X2

Temporal dynamics (asynchronous)

Reaction Time: Number of updates before activations stabilize



 Adding noise (ε) to the threshold value of zero improves the network's performance

Associations and context



Associations and context



test probe

Hopfield Net Properties

- Reaction Time: Number of updates to complete a pattern
- Failure to recall: No pattern completed within a given interval
- Similarity based interference arises from adding weights
- Learning can be gradual