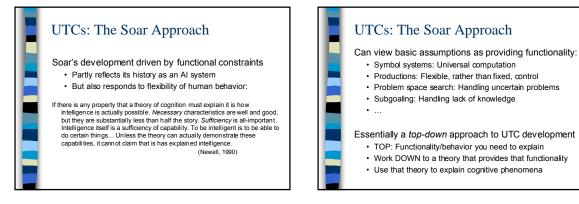
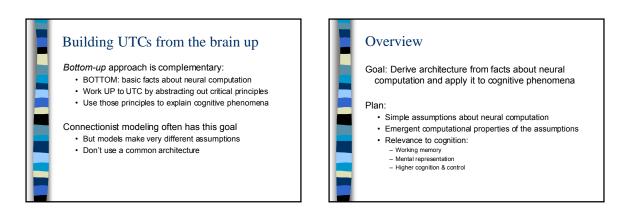
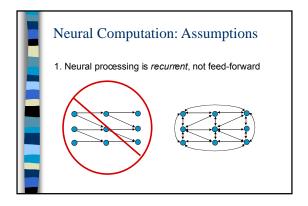


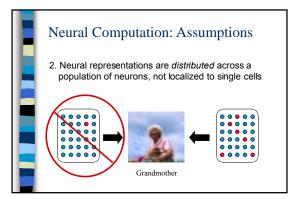
## Collaborators

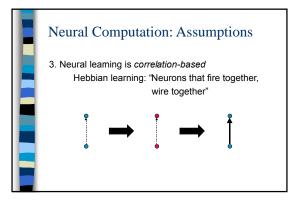
| Chu  | ck Behensky |
|------|-------------|
| Eric | Freedman    |
| Rich | n Gonzalez  |
| Mat  | thew Jones  |
| Rick | Lewis       |
| Pat  | Simen       |
| Ed S | Smith       |
| Sco  | tt Wallace  |
| Brał | nm Windeler |
|      |             |

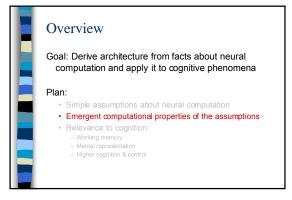


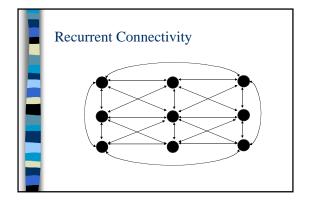


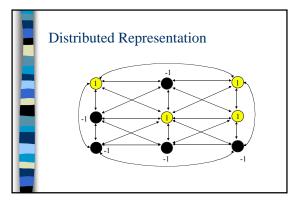


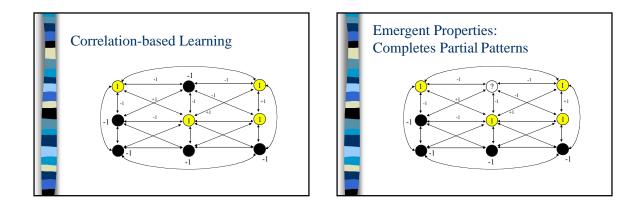


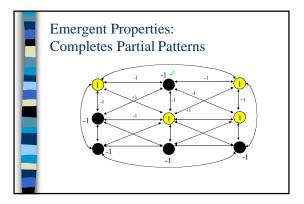


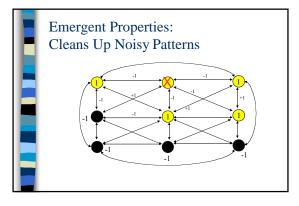


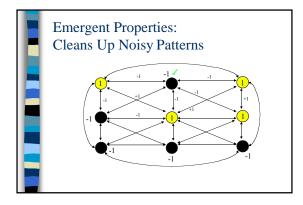


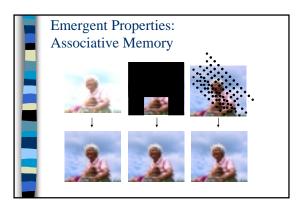


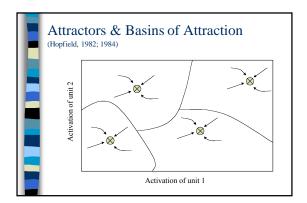


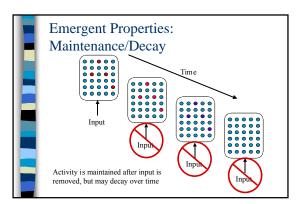


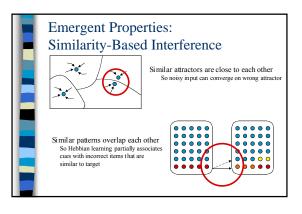


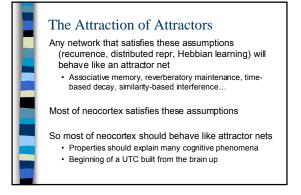


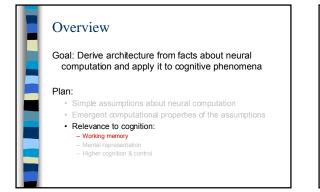


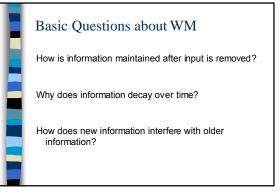


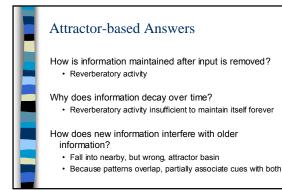


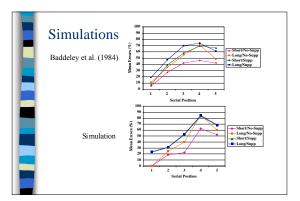


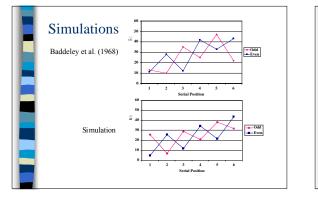


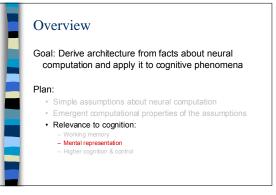


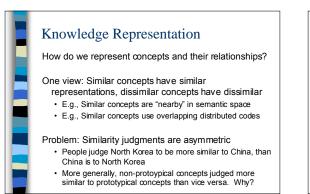


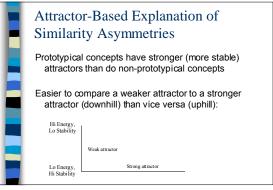


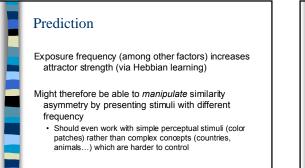


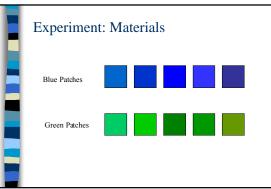


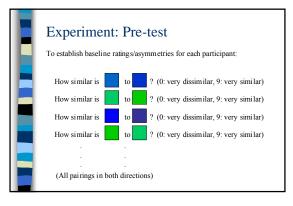


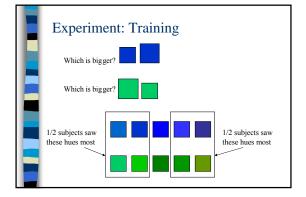


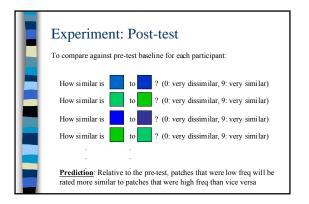


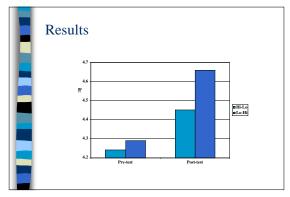












## Overview

Goal: Derive architecture from facts about neural computation and apply it to cognitive phenomena

## Plan:

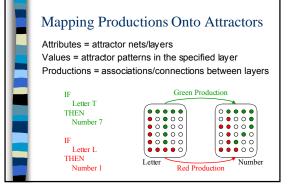
- Simple assumptions about neural computation
- Emergent computational properties of the assumptions
  Relevance to cognition:
- Working memory
  - Higher cognition & control

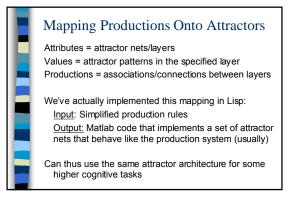
## Higher Cognition

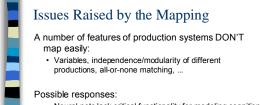
Models of higher cognition (planning, problem solving) typically based on symbolic processing • Symbols, productions, sequential behavior, search...

Most neural net models have little to say

Do attractor nets have anything to contribute?







- Neural nets lack critical functionality for modeling cognition
   Need to work on increasing their functionality
- Production systems have too much functionality
- Might work with less powerful production systems that map more naturally
  Both are probably reasonable

