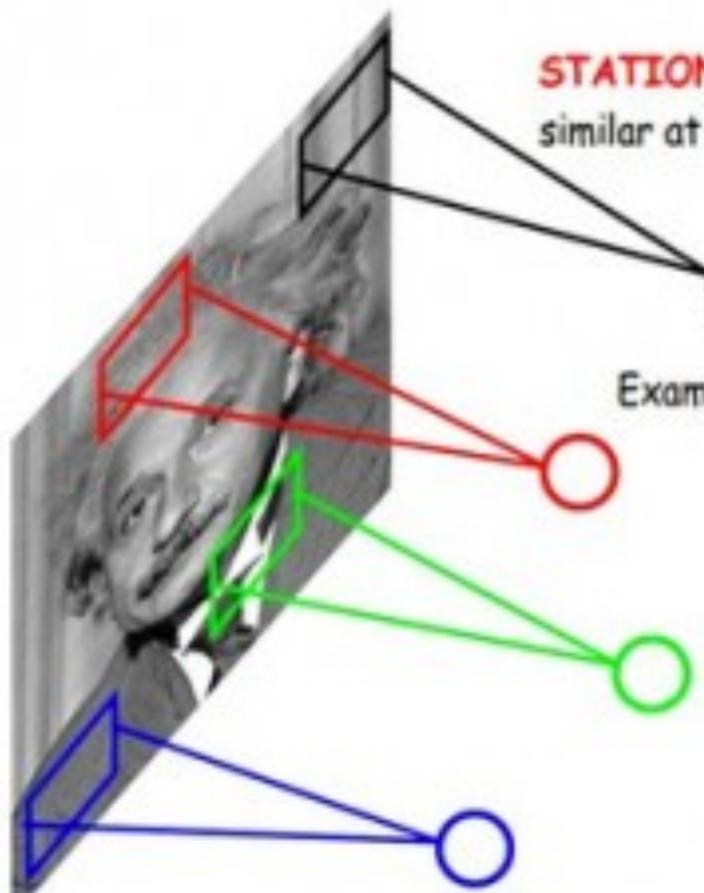


## LOCALLY CONNECTED NEURAL NET

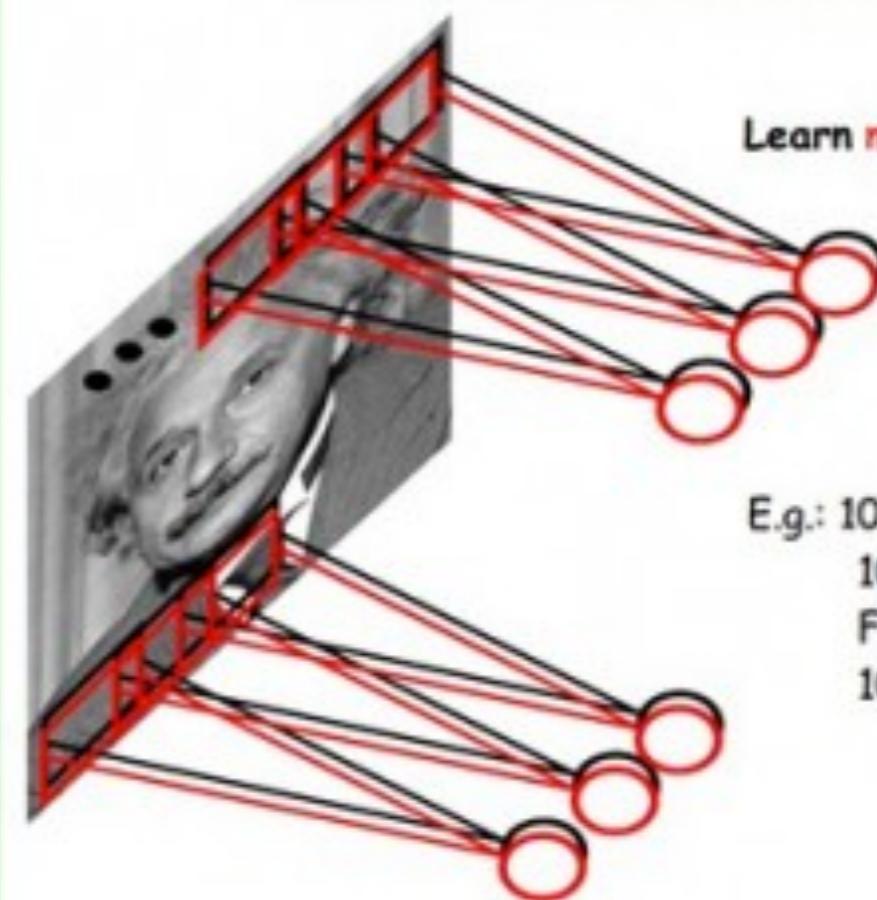


**STATIONARITY?** Statistics is similar at different locations

Example: 1000x1000 image  
1M hidden units  
Filter size: 10x10  
100M parameters

layer  $m-1$

## CONVOLUTIONAL NET

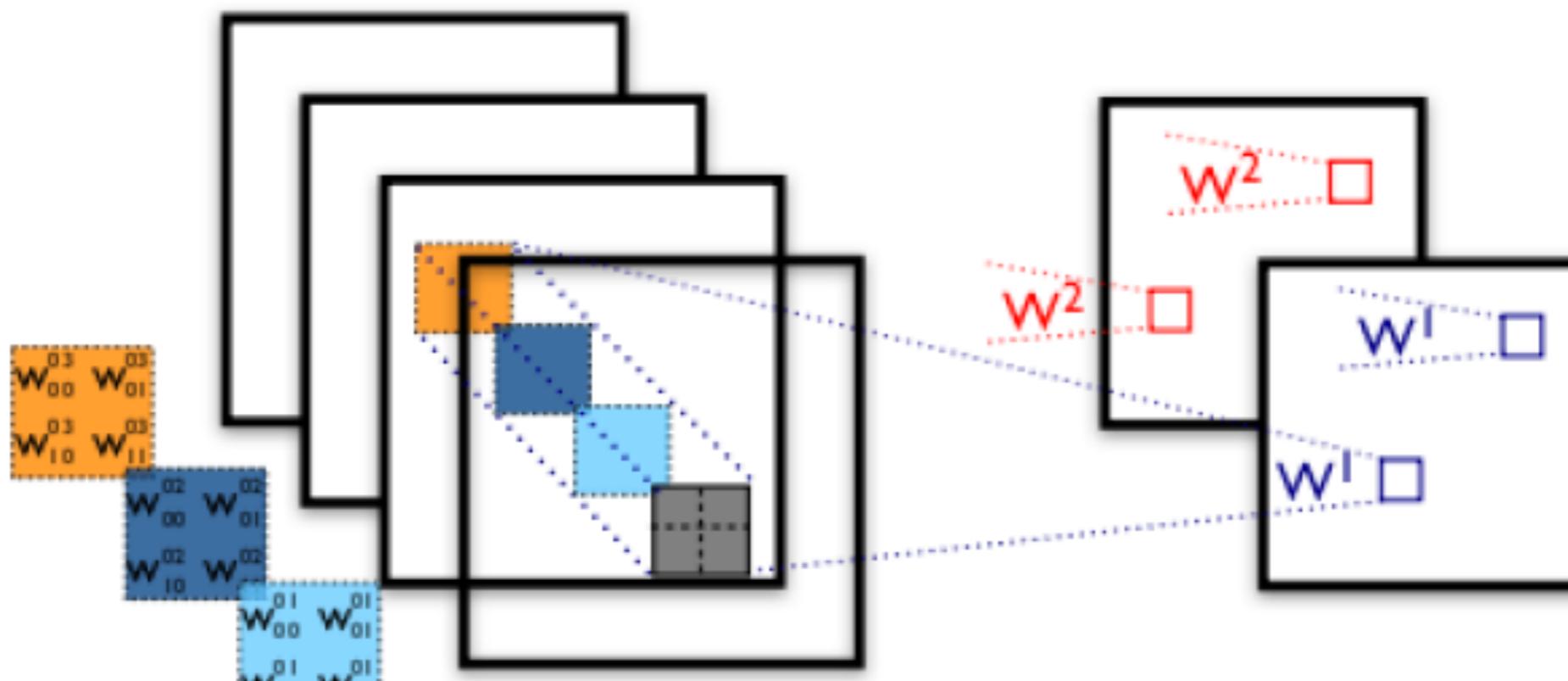


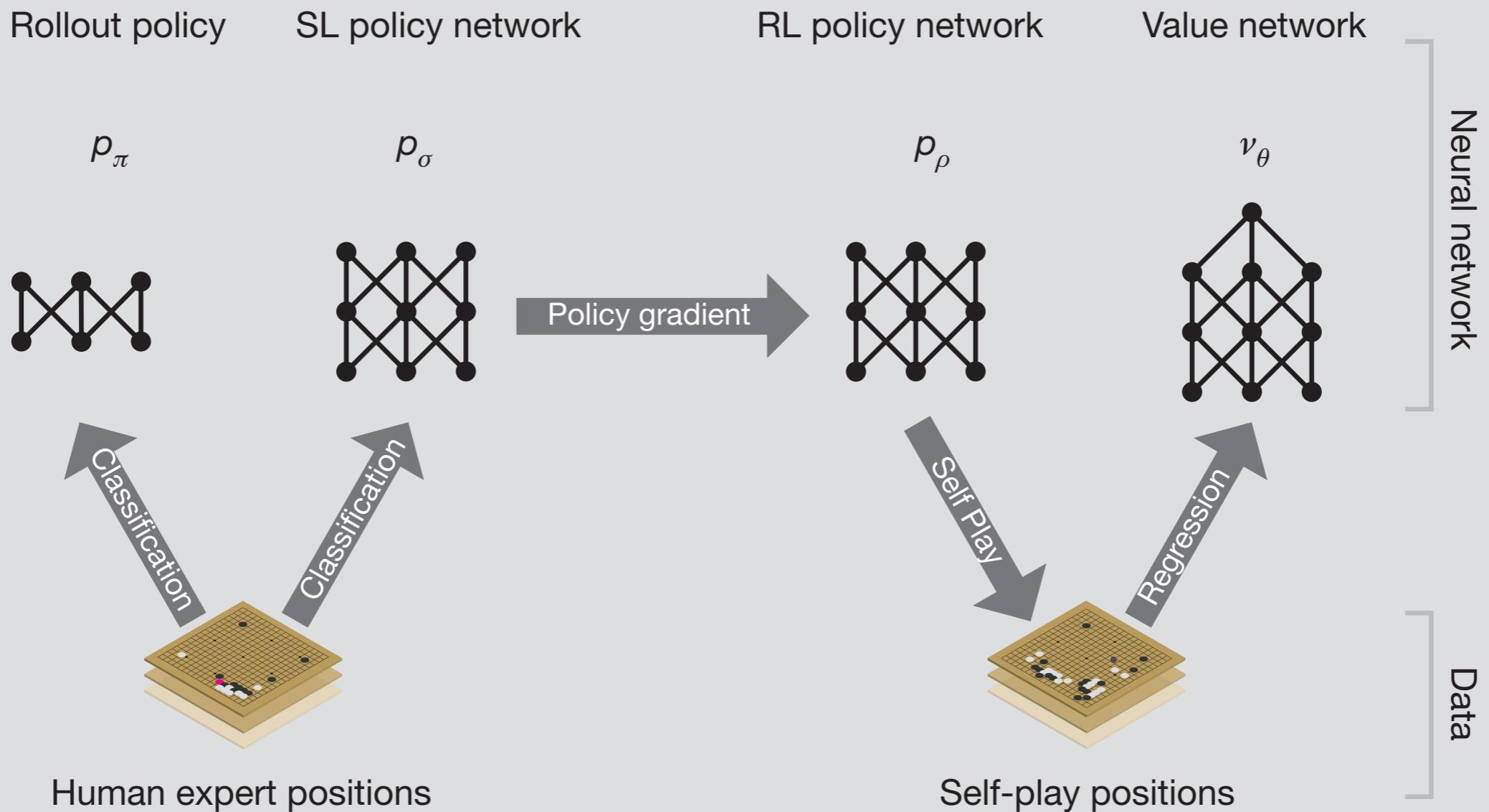
Learn multiple filters.

E.g.: 1000x1000 image  
100 Filters  
Filter size: 10x10  
10K parameters

Ran

hidden layer  $m$





- SL Policy network
  - Fast Rollout Policy
  - local feature & linear model
  - Accuracy 24.2% & 2us VS 3ms
- 13 layer CNN
- Accuracy 57% VS 44.4%
- RL Policy network
  - Self-play 30 million times
- Value network
- self play data set
- add