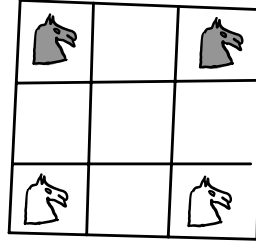
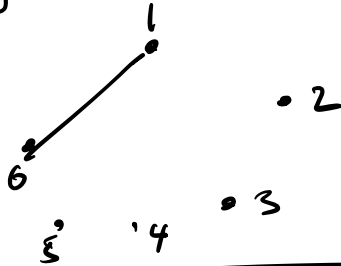
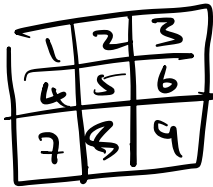


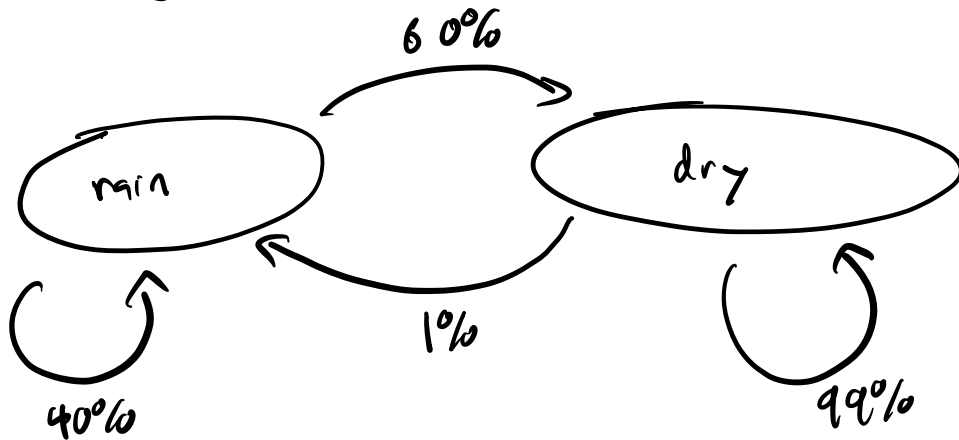
Puzzler What is the fewest number of moves required for the white & black knights to exchange positions? (no capturing allowed)



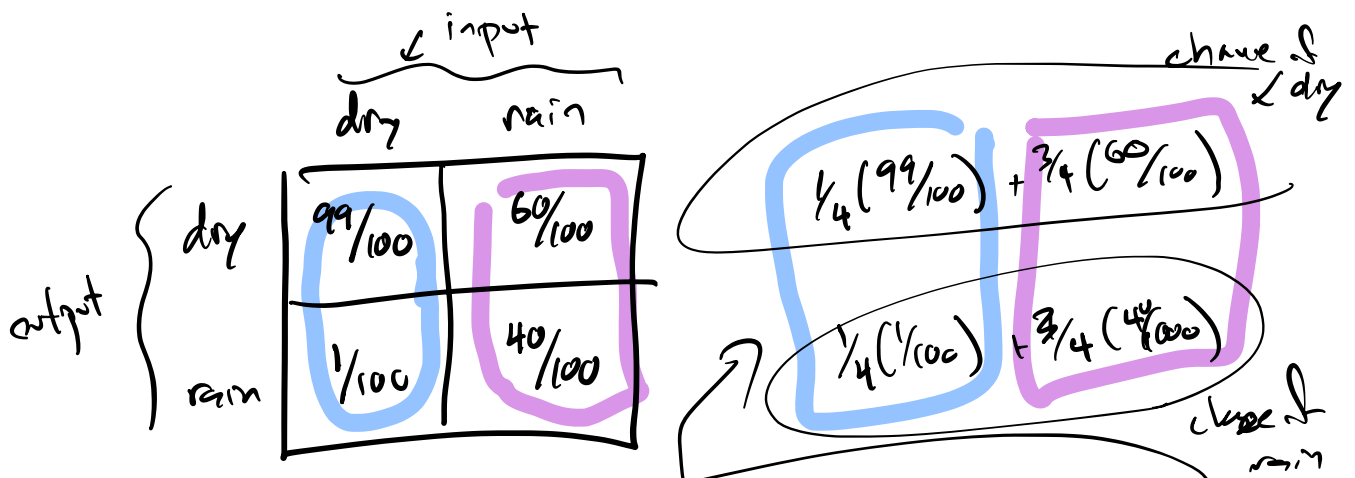
Play with some generative/prediction models
 - handwriting recognition - text generation.

Markov & Pushkin.

previously - probability focused on independent random events.



4% rain
 3%
 2%



know

$\frac{1}{4}$ chance ↓ dry

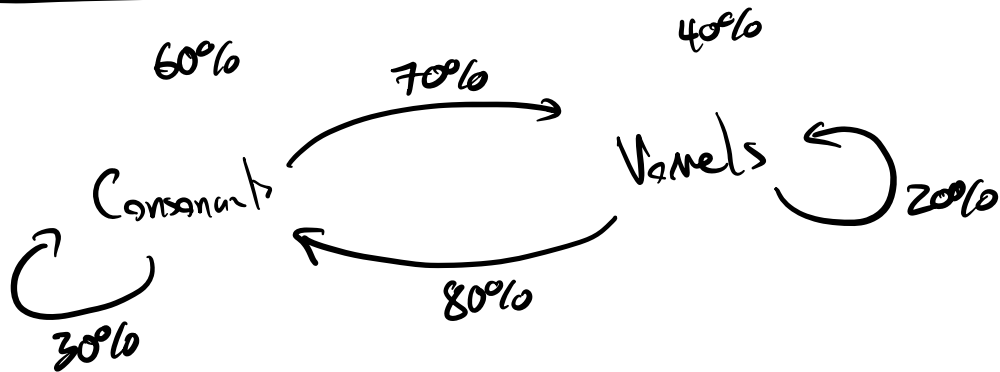
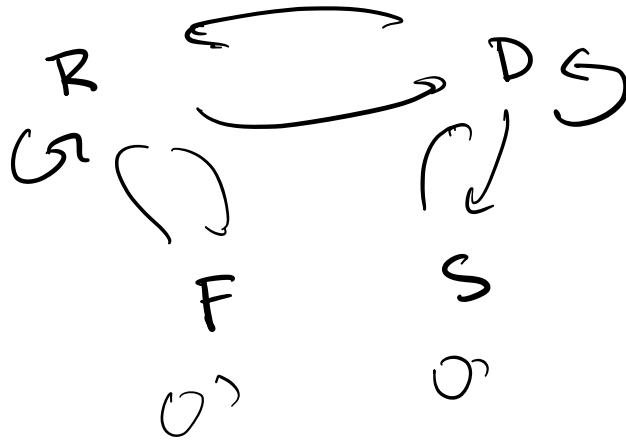
$\frac{3}{4}$ rain

$$\begin{bmatrix} 99/100 & 60/100 \\ 1/100 & 40/100 \end{bmatrix} \begin{bmatrix} 1/4 \\ 3/4 \end{bmatrix}$$

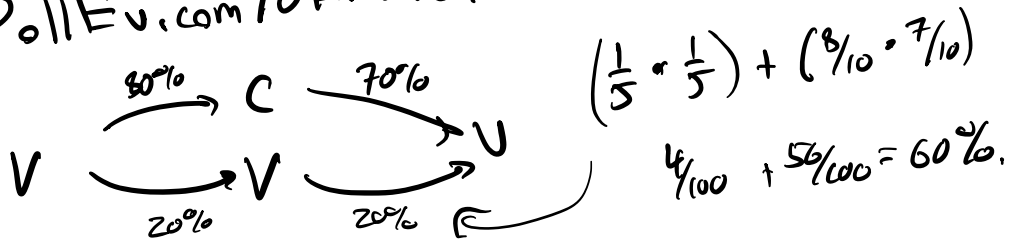
$$\begin{bmatrix} 99/100 & 60/100 \\ 1/100 & 40/100 \end{bmatrix} \begin{bmatrix} 99/100 & 60/100 \\ 1/100 & 40/100 \end{bmatrix} = \begin{bmatrix} 2 \text{ days} \end{bmatrix}$$

Markov Process

Has distinct states & transition probabilities



PollEv.com / dkrashev 235



ntalshoed

clulth_wes
↖
2 characters "bigrams"

ab

aa

th

abe

Rough plan:

- Linear regression
- Newton's method.