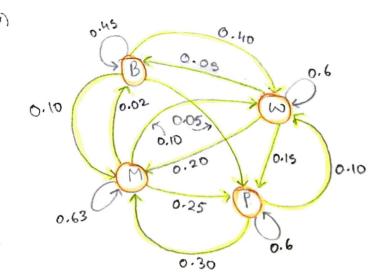
1) Markov Chains



- · Mates = {B, W, M, P}
- · Gransitional potabilities along Edges

$$P_{4=4} = \begin{pmatrix} P_{4=0} \end{pmatrix}^4 = \begin{bmatrix} 0.0818901, & 6.330476 & 6.328083 & 6.289582 \\ 0.0465629 & 0.277554 & 0.370946 & 0.304637 \\ 0.0314819 & 0.201884 & 0.421355 & 0.345279 \\ 0.0262419 & 0.195219 & 0.41387 & 6.364729 \end{bmatrix} P$$

(d) After 10 time steps, B W M P

$$P_{t=10} = (P_{t=0})^{10} = \begin{bmatrix} 0.0362684 & 0.226037 & 0.40122 & 0.336475 & B \\ 0.0353536 & 0.222926 & 0.403153 & 0.338567 & W \\ 0.0346149 & 0.220237 & 0.404807 & 0.340686 & P

0.0344663 & 0.219761 & 0.405086 & 0.340686 & P$$

Modely Mate protocolo (10 0.05)
$$\Rightarrow b = [x_1 x_2 x_3 x_4]$$

$$b = \begin{bmatrix} 0.035 & 0.00 & 0.10 & 0.05 \\ 0.05 & 0.60 & 0.20 & 0.15 \\ 0.07 & 0.10 & 0.63 & 6.25 \\ 0 & 0.10 & 0.30 & 0.6 \end{bmatrix} \Rightarrow b = [x_1 x_2 x_3 x_4]$$

$$b = [x_1 x_2 x_4 x_4]$$

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2) Decision tree darrification	Attr Values (
· Attributes = Vine, Game, tisse, Weather	. Meine: Morning, Afternoon, Nuch
· Yauget : Oulcome (A,B)	. GT: Regular, playoff, presers
· Yauget: Outéonne (A,B) · 16 examples total	
-> Root node with distribution (A,B) = (11,5)
(a) Decision the attached with submission	file
ch D A Hald with submission	file
(b) Decision true attached with submission	V
(1) From our trees, we can observe that -	-
> for(a), Night > Playoff > Clear =>	
-> for (6), Clear -> Night -> Playoff =>	Seam A wins!
	7
	1 un als win is the
	". Yearn A's win is the most littley outcome !!
	most many

3) Program attached with submission files

4) Program attached with submission files.

