What types do they prefer in the next lap?
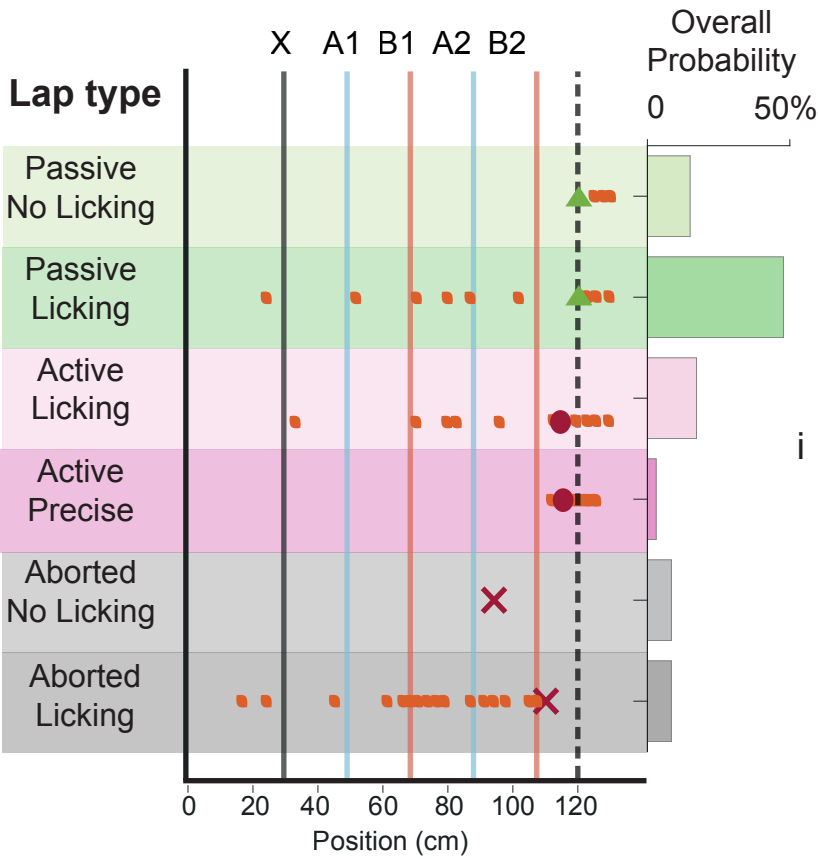
$$P_{ij} = P(X_{t+1} = j \mid X_t = i)$$

$$\frac{\text{Count of } i \to j \text{ transitions}}{\text{Total count of transitions from } i}$$

Transition Matrix

Lap type

	X A1 B1 A2 B2	Overall Probability 0 — 50%
Passive No Licking		
Passive Licking		
Active Licking		
Active Precise		
Aborted No Licking		
Aborted Licking		

Transition Matrix:

0.67	0.23	0.01		0.07	0.01
0.07	0.70	0.13	0.02	0.03	0.04
	0.35	0.42	0.07	0.01	0.14
0.02	0.34	0.38	0.11	0.01	0.15
0.12	0.15	0.03		0.58	0.11
0.02	0.26	0.26	0.04	0.14	0.28
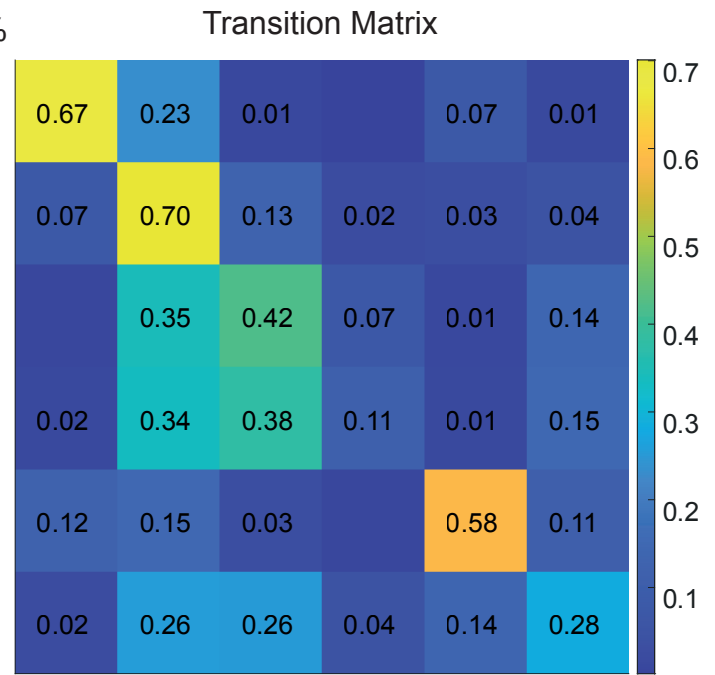
$$M_{ij} = \frac{P_{ij}}{\pi_j} = \frac{P(X_{t+1} = j \mid X_t = i)}{P(X_t = j)}$$

$$\log_{10}(M_{ij})$$

Log base Preference Index

-1   -0.5   0   0.5   1