\[ P(\text{response} \mid \text{stim}) \]

- \( H \) Green
- \( T \) Purple

\[ P(H \mid G), \ P(T \mid G), \ P(H \mid p), \ P(T \mid p) \]

ML decoding:

Given response, choose stim that maximizes

\[ P(\text{response} \mid \text{stim}) \]

i.e.

- if \( H \), choose
- \( G \) if \( P(H \mid G) > P(H \mid p) \), etc.

In continuous response case, amounts to pasting a threshold \( z \)

Stim A if response \( > z \), B otherwise.