

1. Propose new tree: $\wedge \rightarrow \wedge^*$

2. Compute acceptance ratio: $r = \frac{P(\text{data} | \wedge^*) P(\wedge^*) P(\wedge | \wedge^*)}{P(\text{data} | \wedge) P(\wedge) P(\wedge^* | \wedge)}$

3. Accept/Reject:

- if $u > r$: accept
- otherwise: reject

↑
Likelihood

↑
Prior

↑
Proposal
Probability