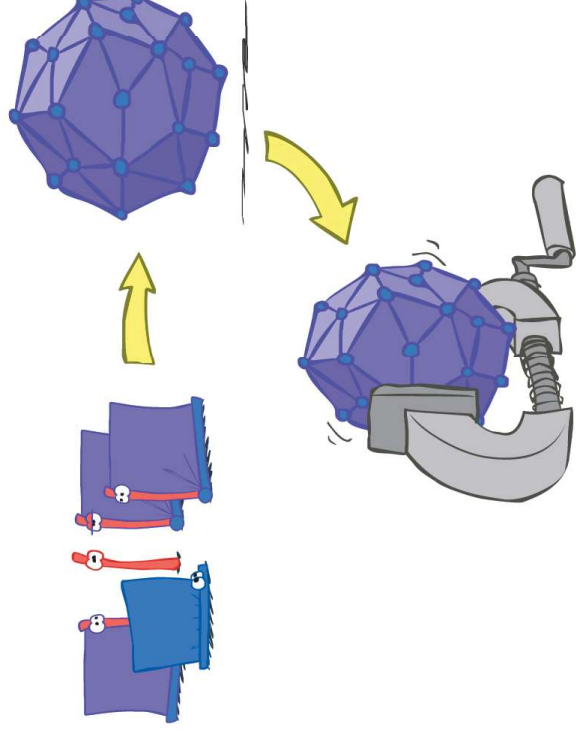
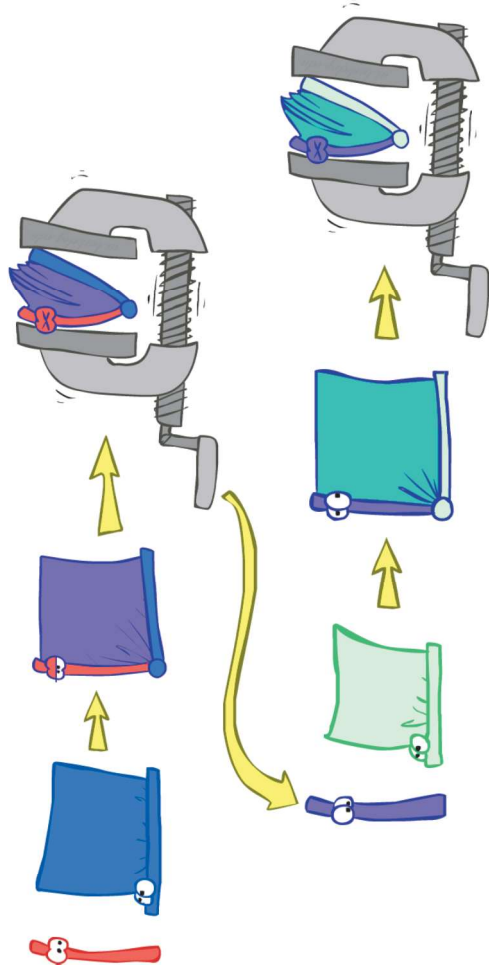


Inference by Enumeration vs. Variable Elimination

- Why is inference by enumeration so slow?
 - You join up the whole joint distribution before you sum out the hidden variables



- Idea: interleave joining and marginalizing!
 - Called “Variable Elimination”
 - Still NP-hard, but usually much faster than inference by enumeration



- First we'll need some new notation: factors