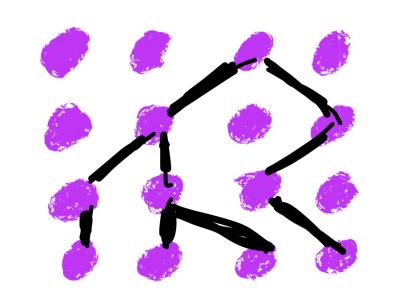
Inference frameworks

Wright-Fisher process at the core



Summary statistics and simple calculations (small data, simple population)

TI: average pairwise divergence

S: # segregating s:tes

T: deviation from neutrality

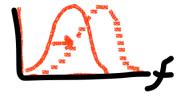
Probabalistic models (big data, more complex populations)

Forward time;

· PDEs / diffusion

. Sclective sweeps

why t



Reverse time:

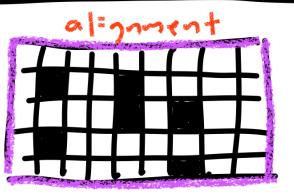
· coalescent geneology

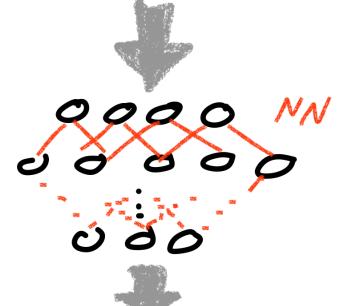
· conlescent HMM



Machine learning (big data, arbutarily complex population)

Supervised learning







Problem

The Wright-Fisher process is wrong!

Question: what's missing w/WF model?