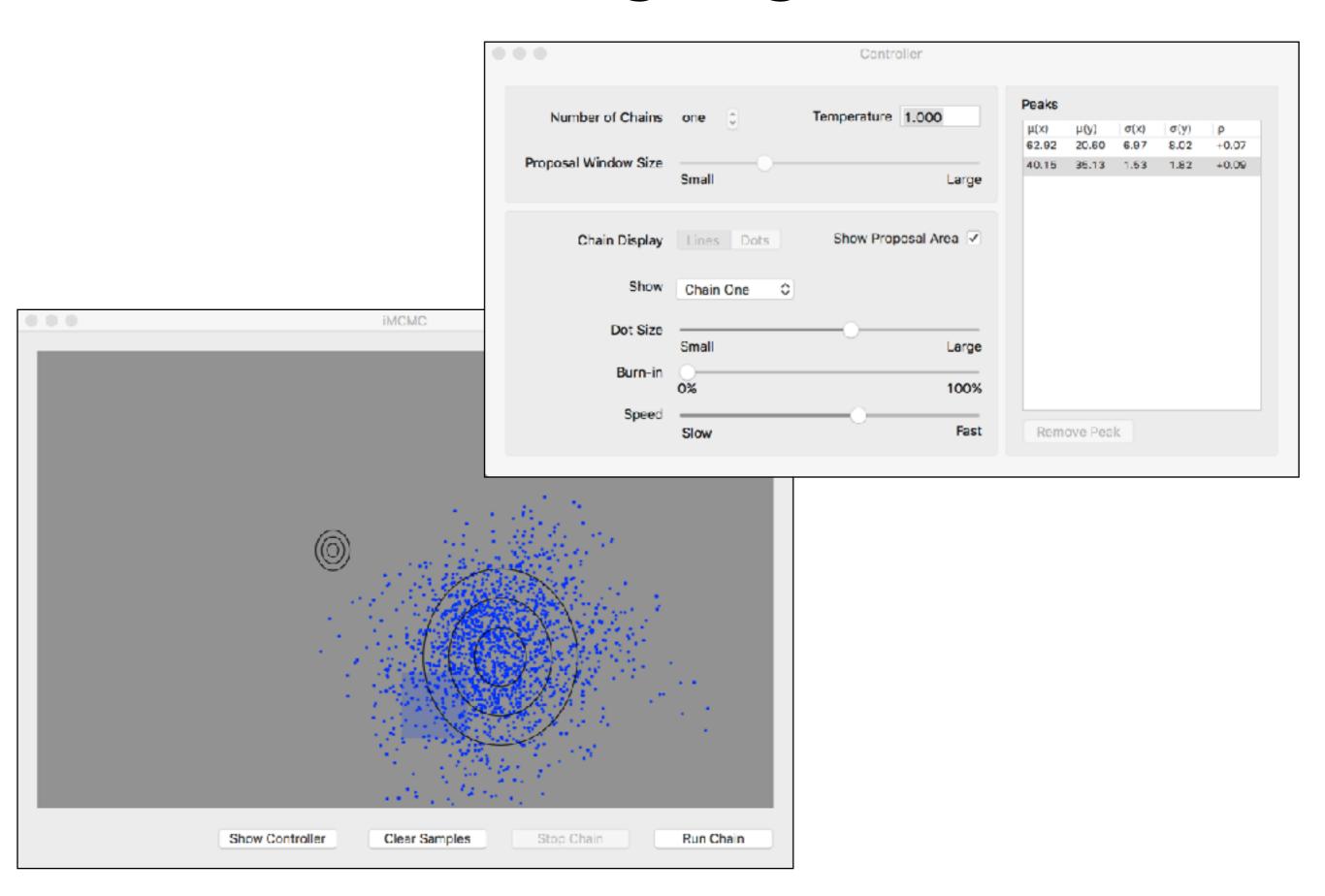
Review of MCMC

What happens when you change...

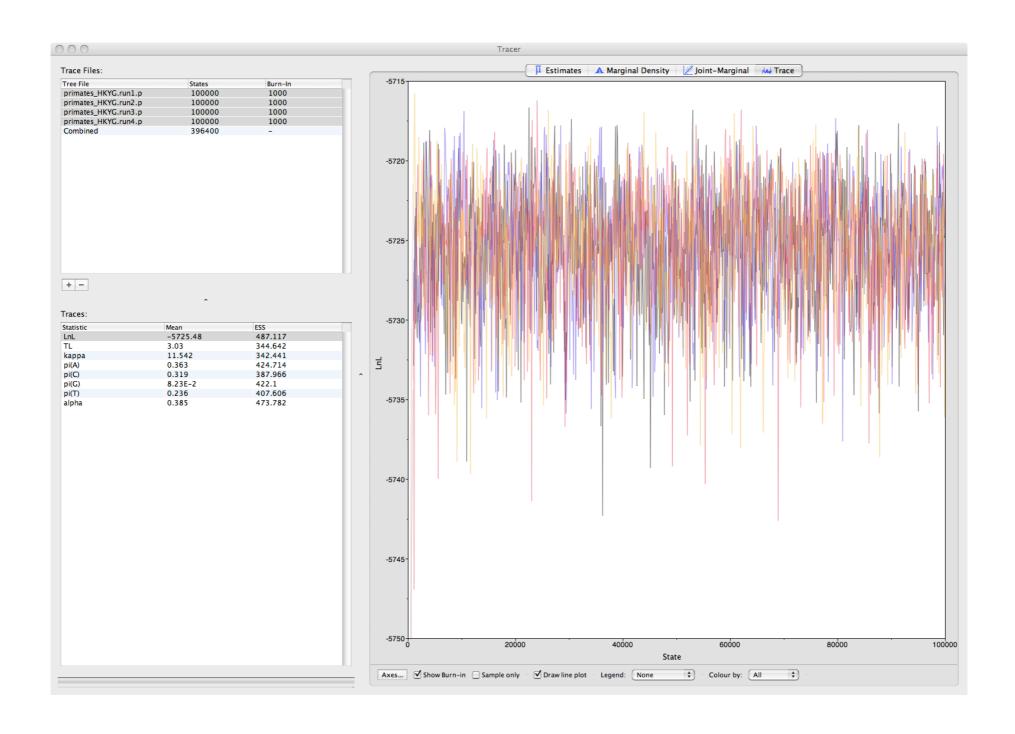
- The size of the proposal distribution
- The number of generations
- The burn-in

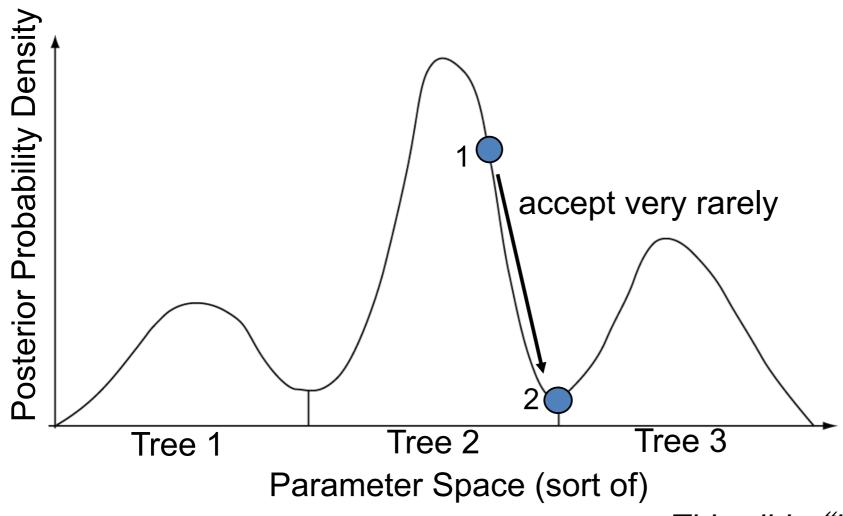
iMCMC



Convergence of Scalars - Tracer





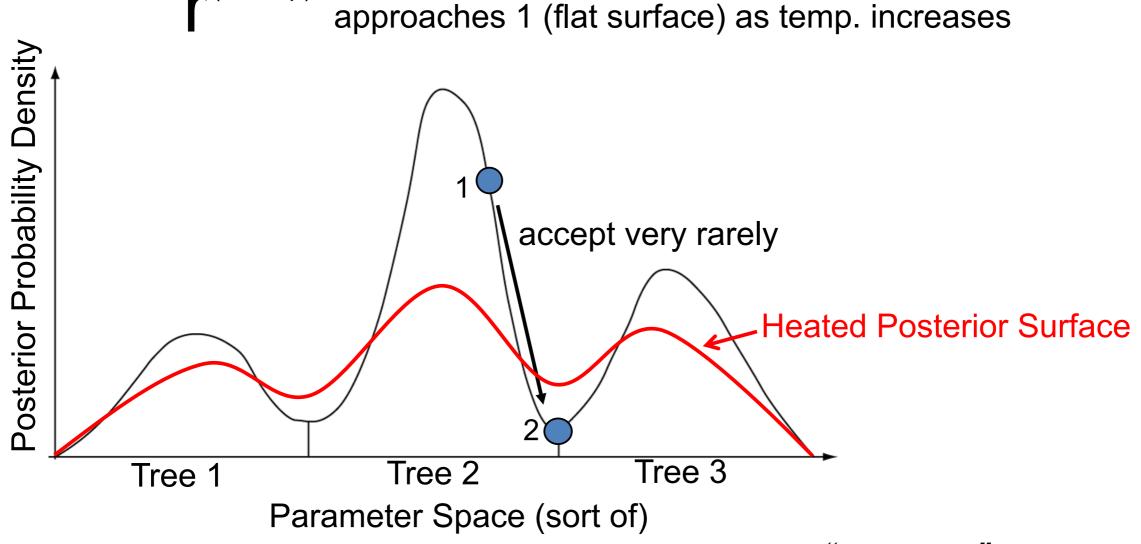


This slide "borrowed" from F. Ronquist

- Same rules as regular MCMC, but now there are multiple chains with different 'temperatures'.
- 'Heated' chains sample a 'melted' version of the posterior

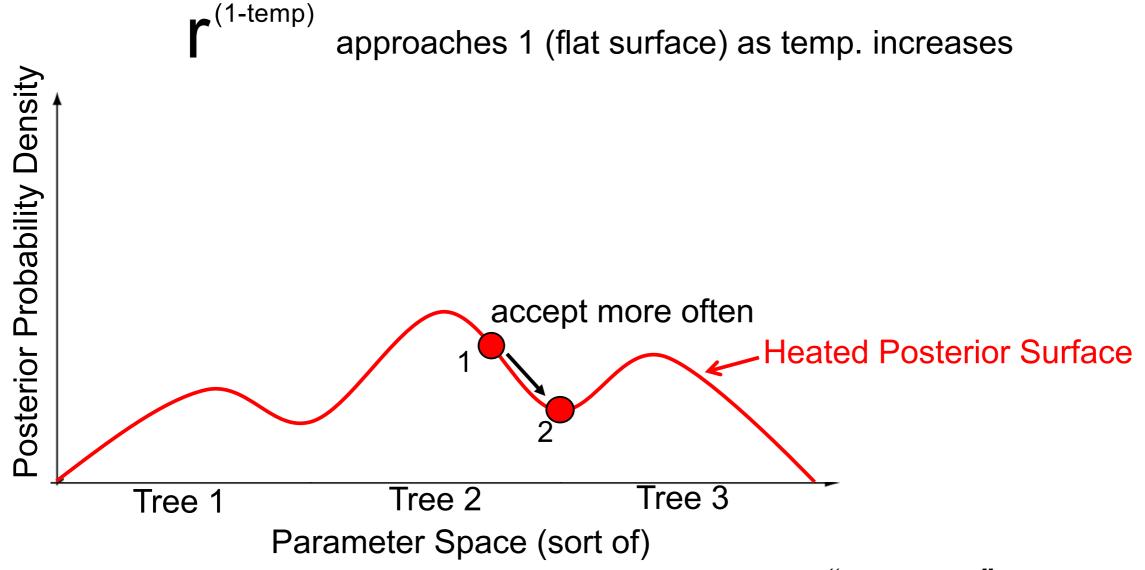
,(1-temp)

 Only difference is that heated chains raise the ratio of posterior densities to (1-temp) when deciding whether to accept a move.



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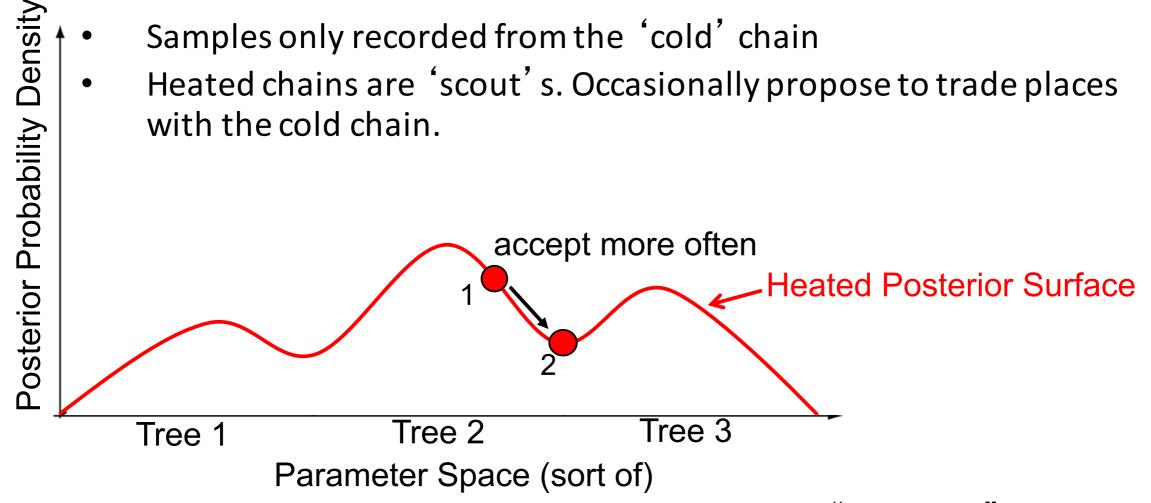


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- Same rules as regular MCMC, but now there are multiple chains with different 'temperatures'.
- 'Heated' chains sample a 'melted' version of the posterior
- Only difference is that heated chains raise the ratio of posterior densities to (1-temp) when deciding whether to accept a move.

▶(1-temp) approaches 1 (flat surface) as temp. increases

- Samples only recorded from the 'cold' chain
- Heated chains are 'scout's. Occasionally propose to trade places with the cold chain.



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