Progress

TECE meeting 2016-07-14



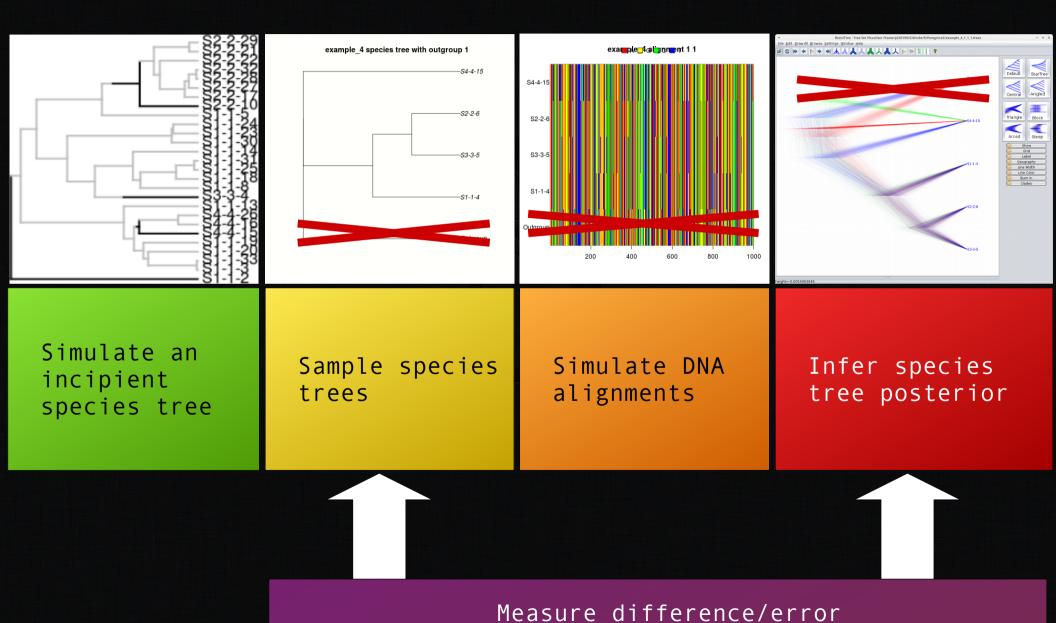
© 2016 Richel Bilderbeek www.github.com/richelbilderbeek/Science

Research question

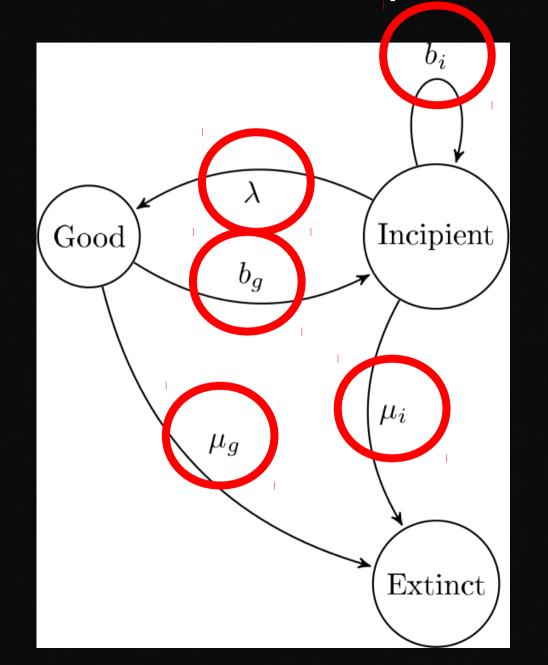
If speciation in nature takes time, what is the error made in inferring a phylogeny?

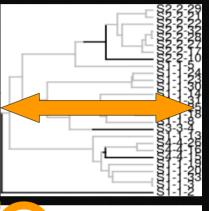
- Under which conditions does it hurt?
- Are these conditions relevant and/or realistic?
- Tool used:
 BEAST2, assumes
 speciation is
 instantaneous

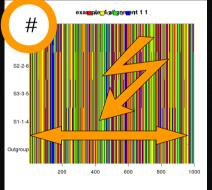
Approach

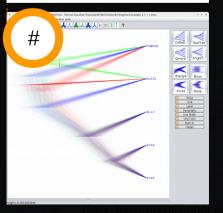


Parameter space

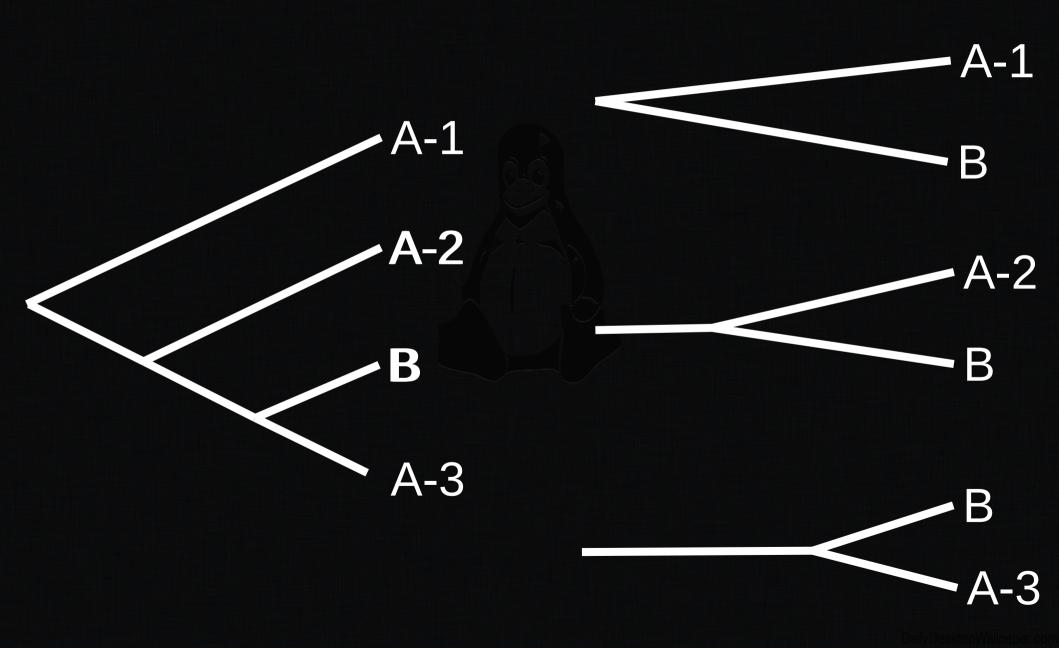




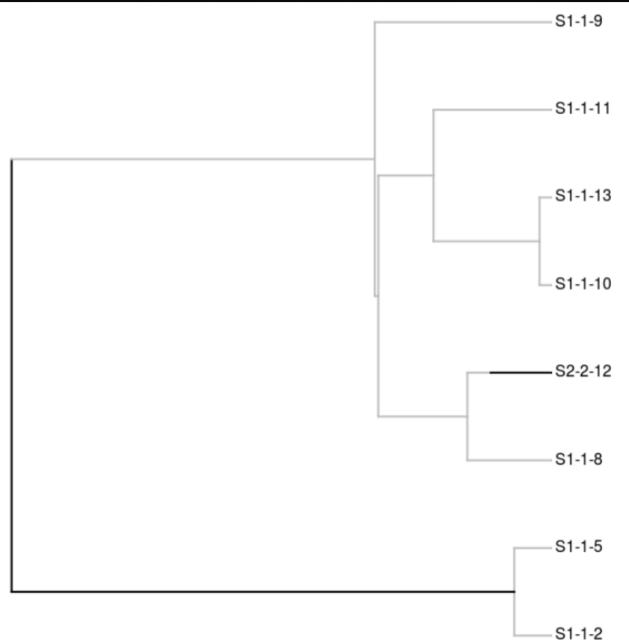


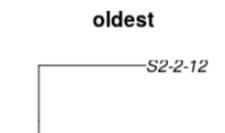


Sampling

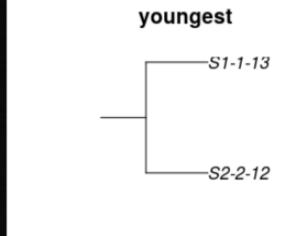


Sampling





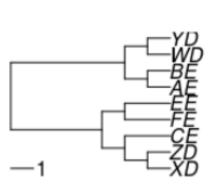
-S1-1-2

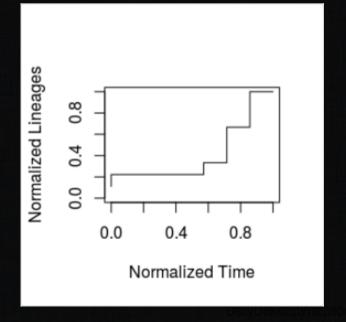


nLTT

NormalizedLineages-Through-Time

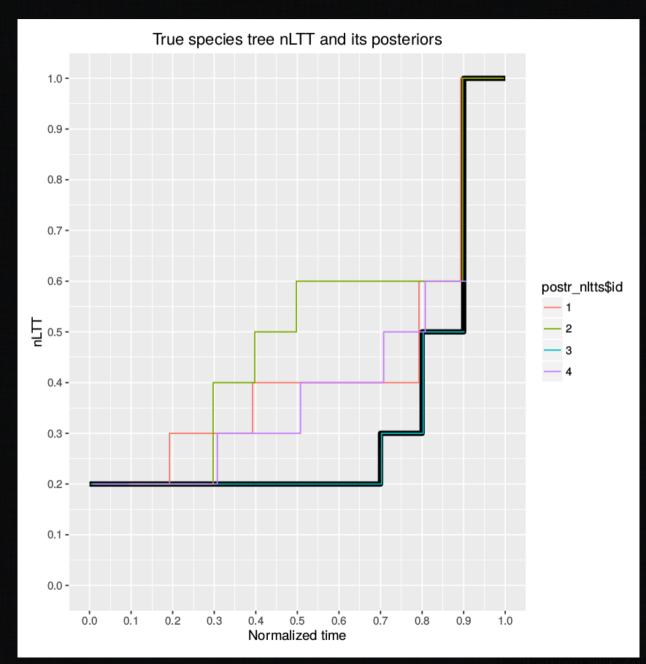
Janzen, Thijs, Sebastian Höhna, and Rampal S. Etienne. "Approximate Bayesian computation of diversification rates from molecular phylogenies: introducing a new efficient summary statistic, the nLTT." Methods in Ecology and Evolution 6.5 (2015): 566-575.



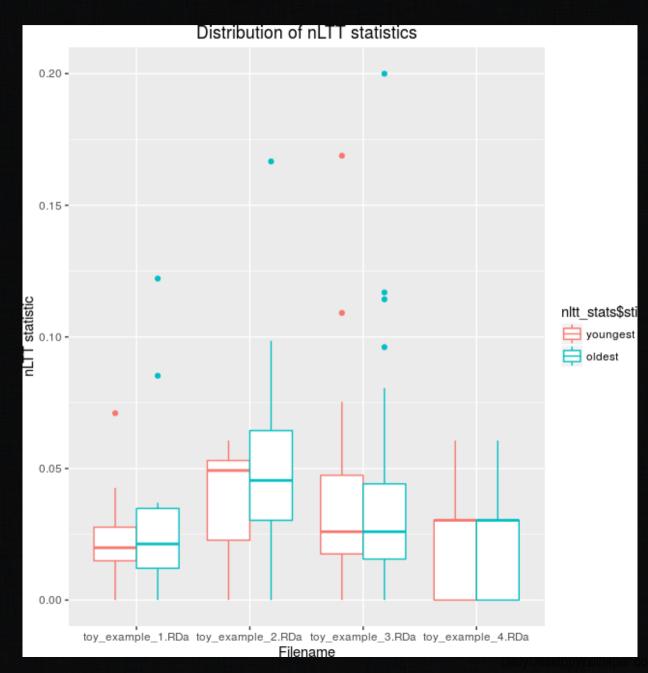


NLTT statistic

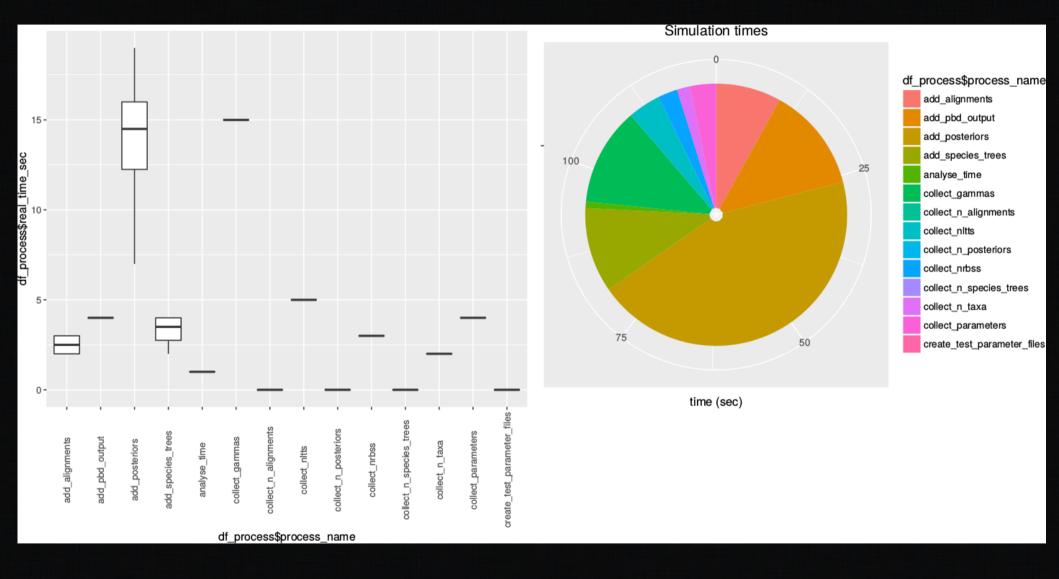
Surface between two nLTT curves



NLTT statistic measured



Time measurements



Work in progress

- Under which parameters can I simulate?
- Measure the nLTT statistics for those parameters
- Finish article