

Reliability Assessment in Evolutionary Trees Using Grids

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Introduction: Phylogenetic Reconstruction

```
...CTCGG CTTAC TTCTC TTCCT TCTCT...  
...CTTGG CTTAT TCCTT TTCCT CCTTA...  
...TTAGG GGCCC TCTTA CTAAT TCTAG...  
...TGAAA CATTG GAGTA CTCTC ACTGT...  
...TGAAA TATTG GTGTG ATCCT CCTAT...  
...TGAAA CATCG GAGTA GTCCT GTTCT...  
...TGAAT GTCTG GTTTA ACAAT TTATT...  
...TGATT AATTG GAGTA ATTAT TTTAT...
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Evolutionary Model

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```

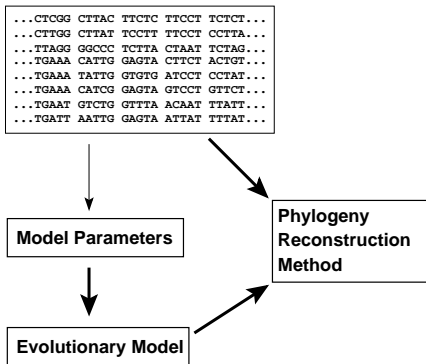


Model Parameters

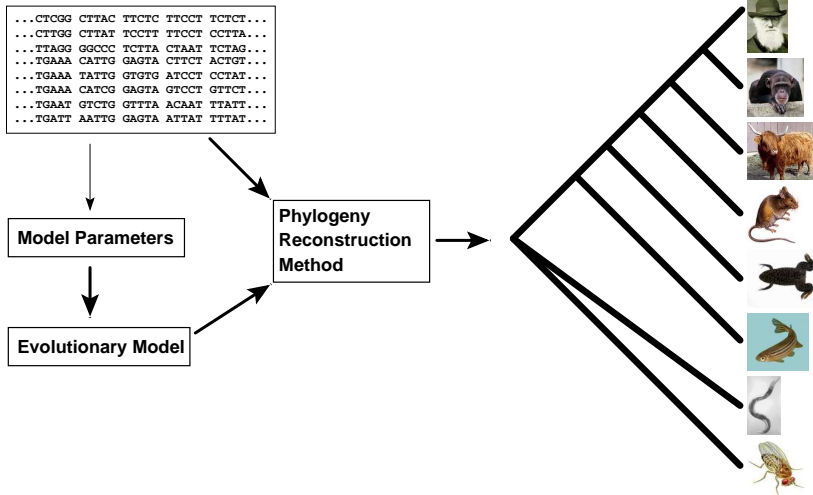


Evolutionary Model

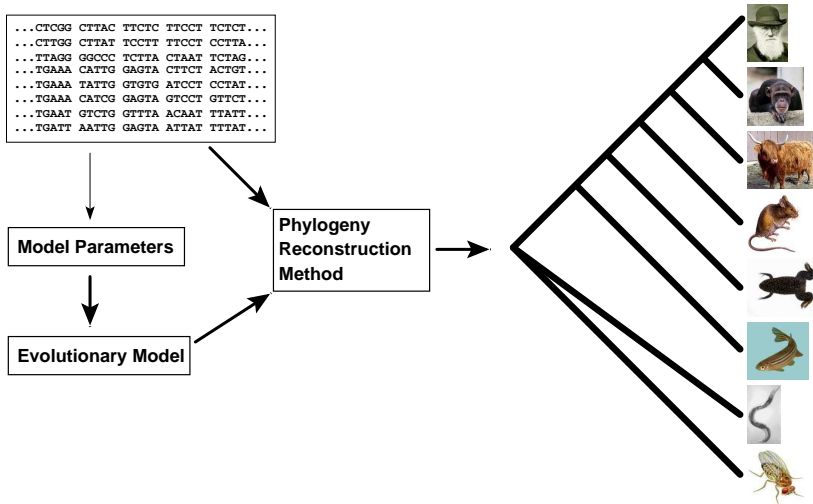
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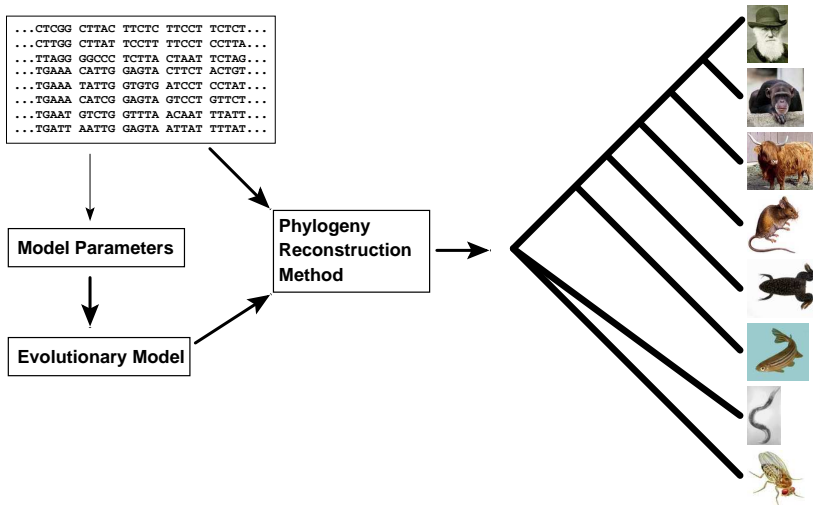


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Problem: Usually we get a tree without any measure of certainty for the reconstructed subtrees.

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Problem: Usually we get a tree without any measure of certainty for the reconstructed subtrees. Common solution: Bootstrapping.