

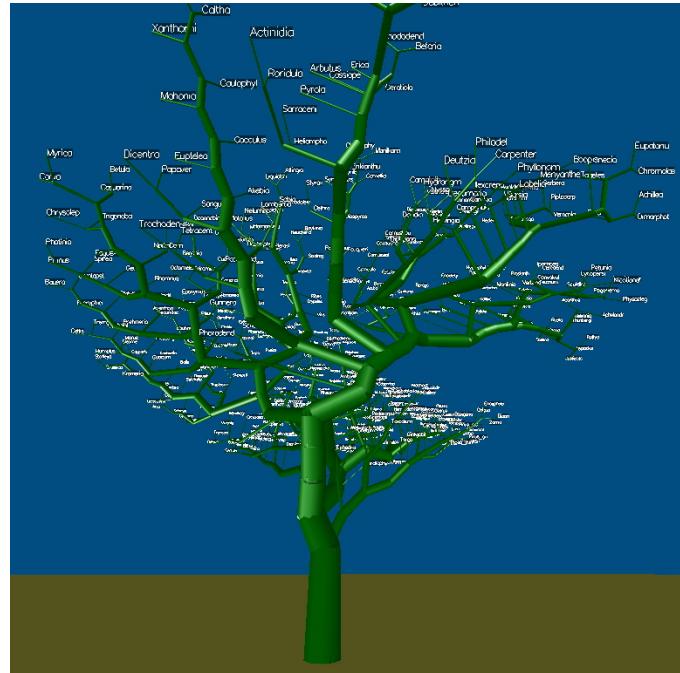
TREE OF LIFE

Case Study

Tree of Life

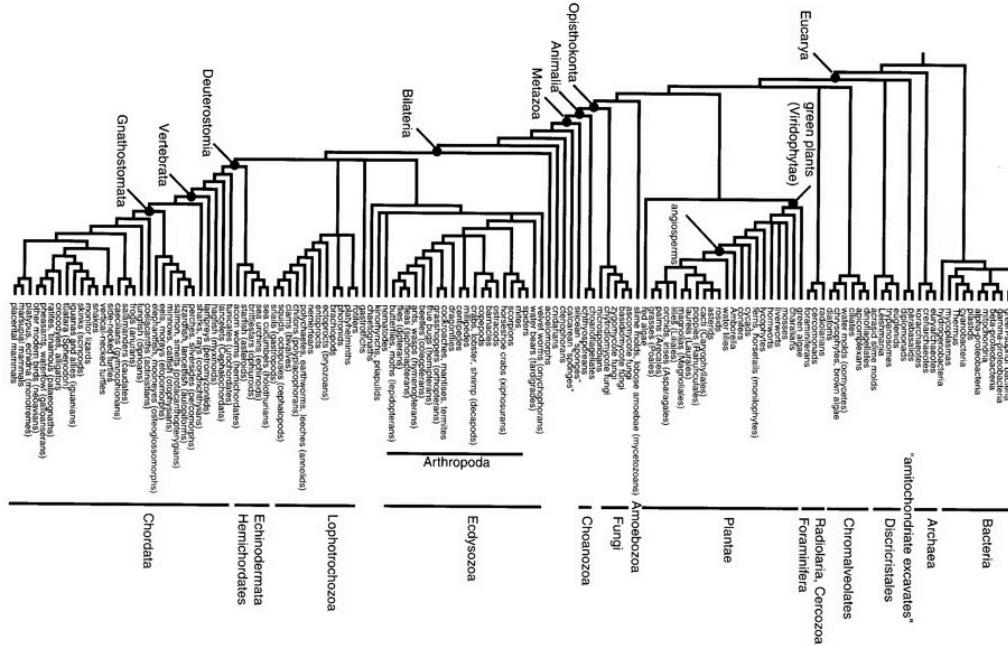
- Specifically **phylogenetic** tree of life
 - Evolutionary tree, showing where species branch
- Can be thousands to tens of thousands of nodes
- Many tools for the ToL exist using different visualization techniques
- See <http://tolweb.org/tree/phylogeny.html>

Paloverde



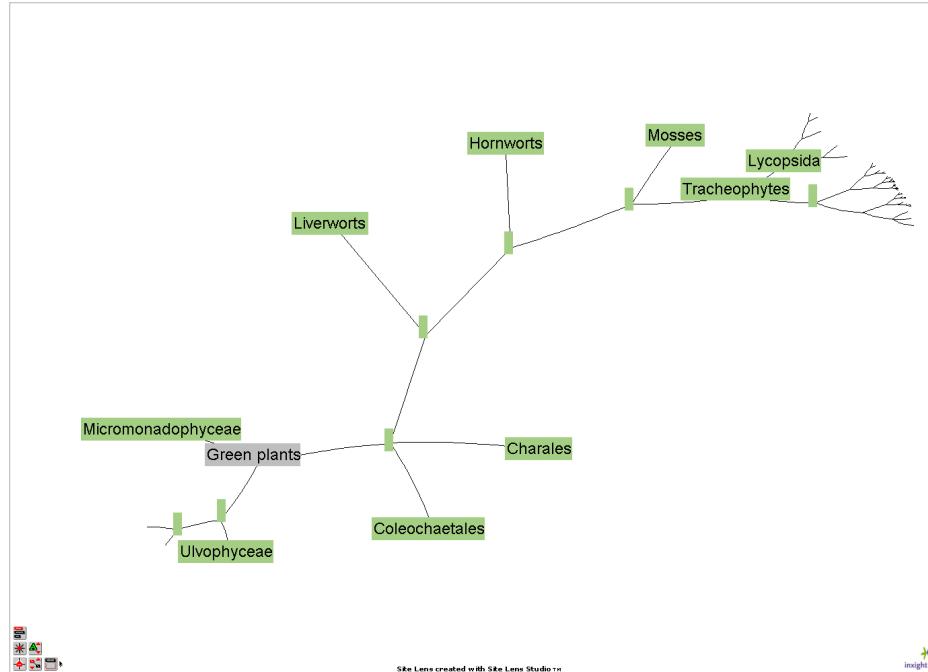
<http://loco.biosci.arizona.edu/paloverde/paloverde.html>

Teachable ToL



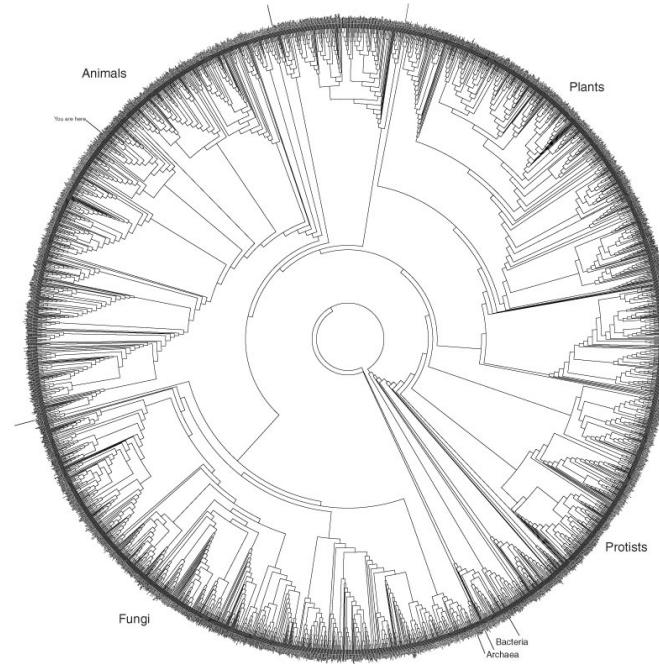
<http://www.rebeccashapley.com/cipres/telescoping.htm>

Hyperbolic ToL (Plants Only)



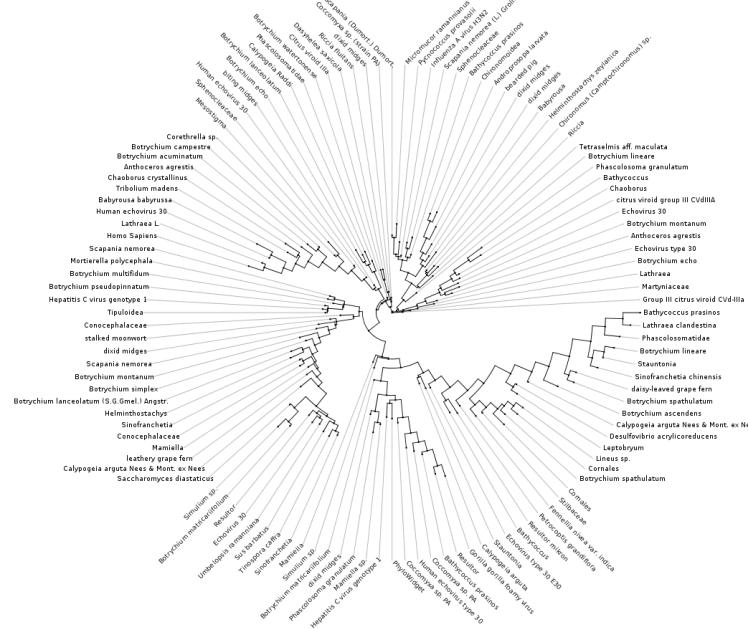
<http://ucjeps.berkeley.edu/TreeofLife/hyperbolic.php>

Subset of 3,000 Species



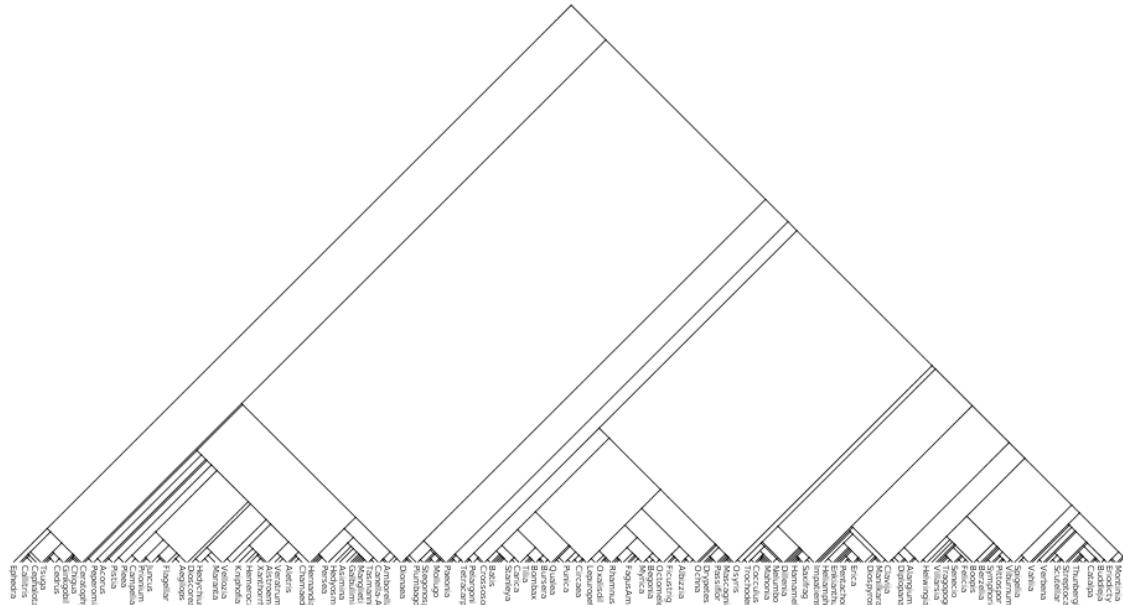
<http://www.zo.utexas.edu/faculty/antisense/DownloadfilesToL.html>

PhyloWidget



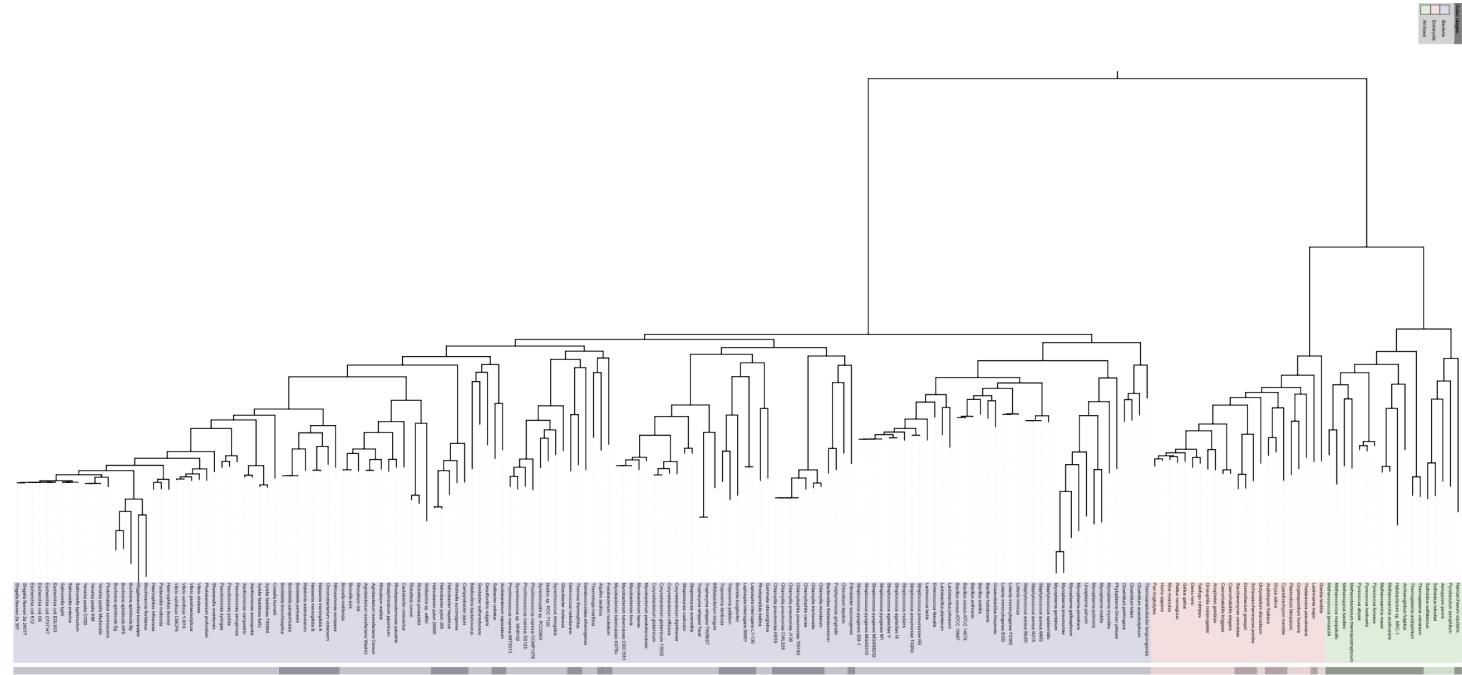
<http://www.phylowidget.org/>

PhyloWidget



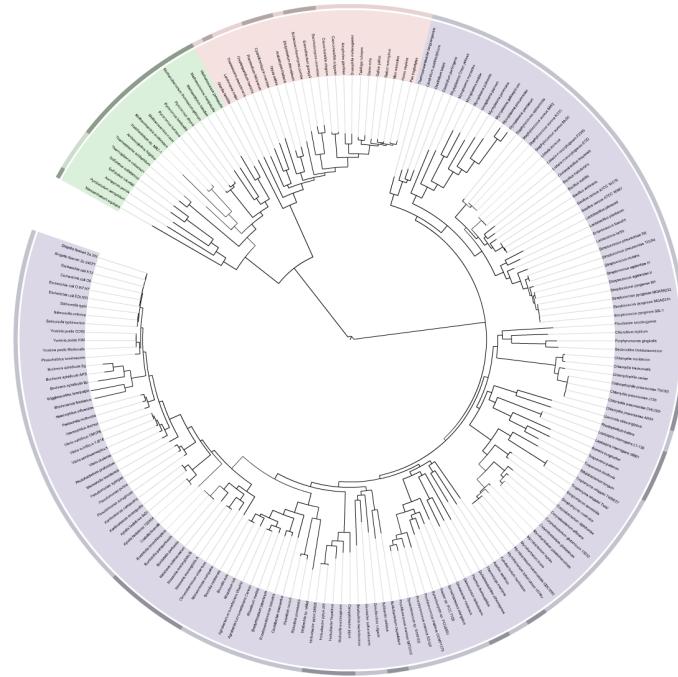
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Interactive ToL



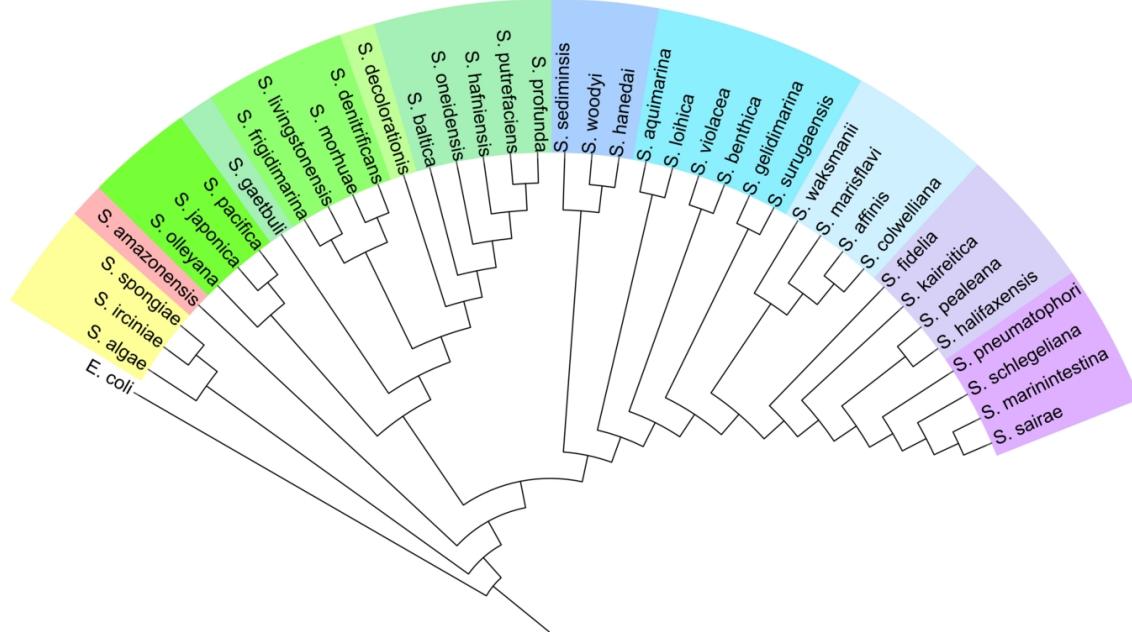
<http://itol.embl.de/>

Interactive ToL



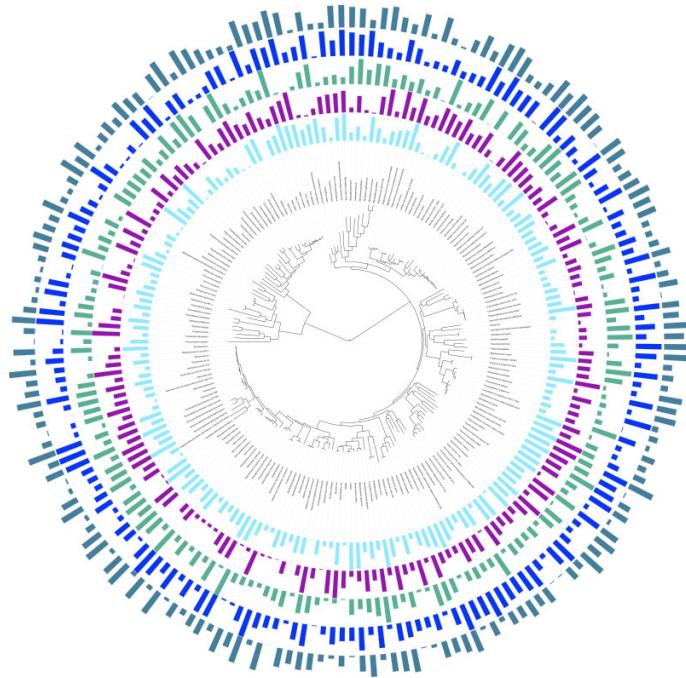
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Interactive ToL



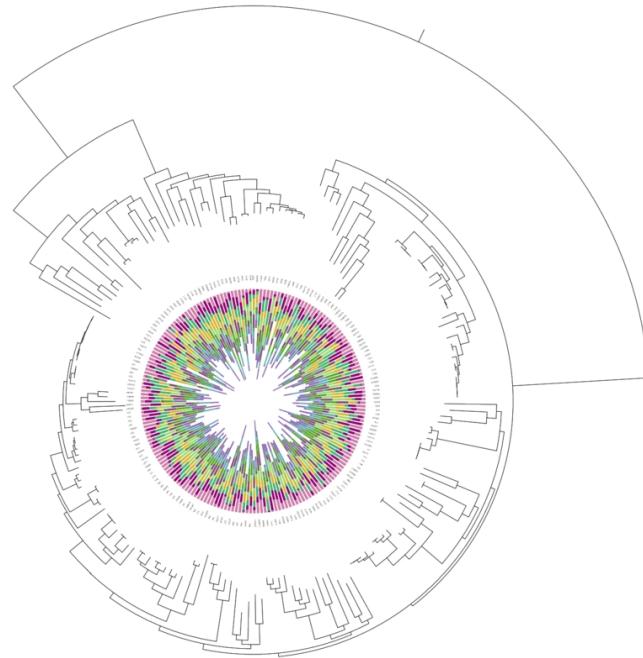
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Interactive ToL



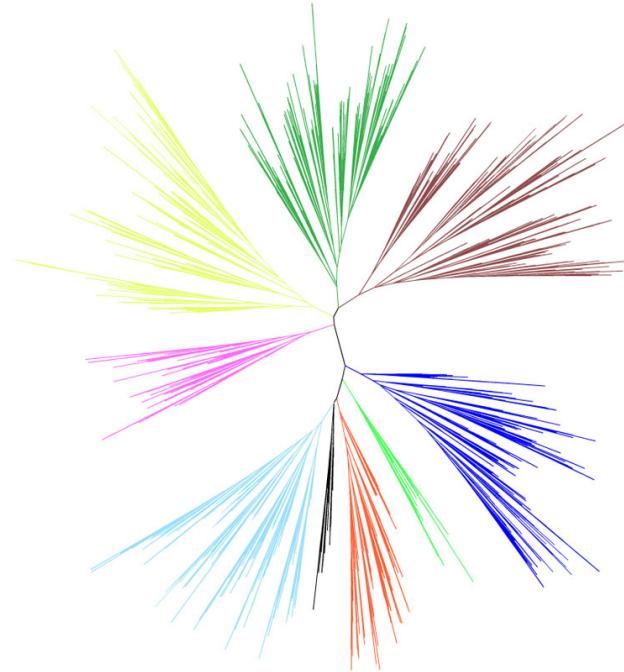
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Interactive ToL



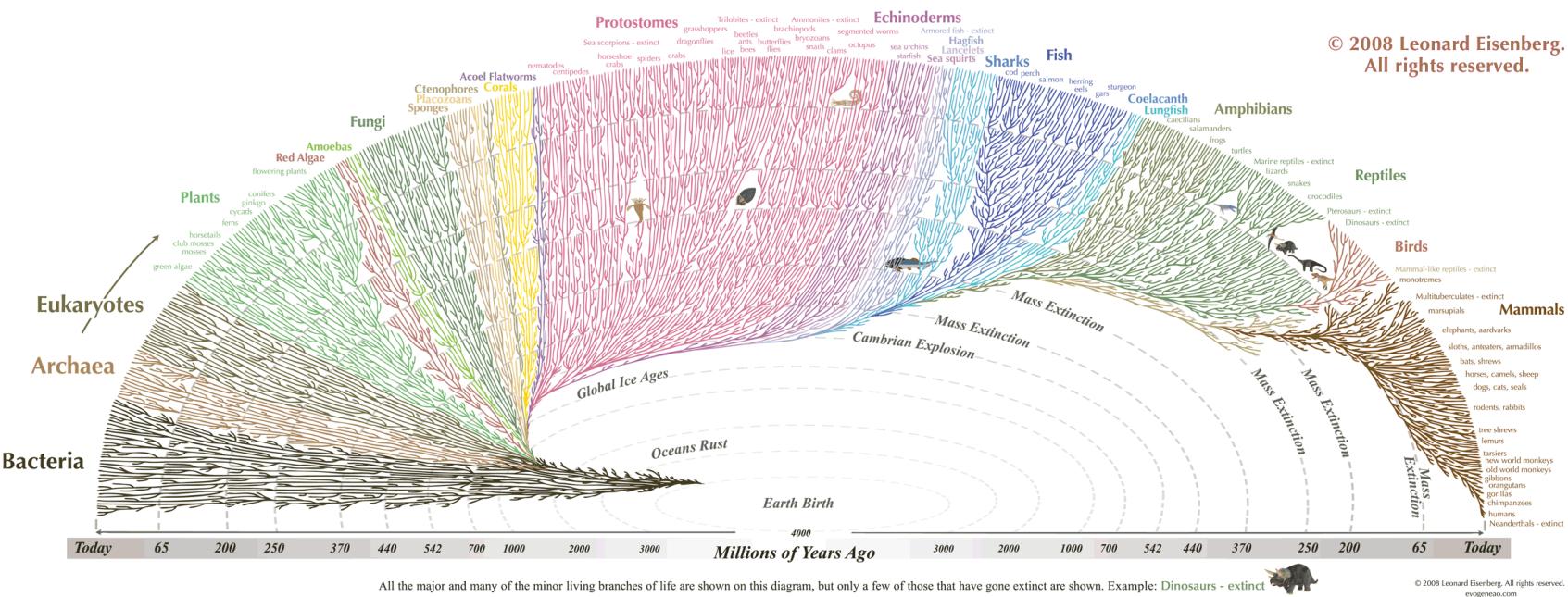
<http://itol.embl.de/>

Interactive ToL



<http://itol.embl.de/>

Illustration



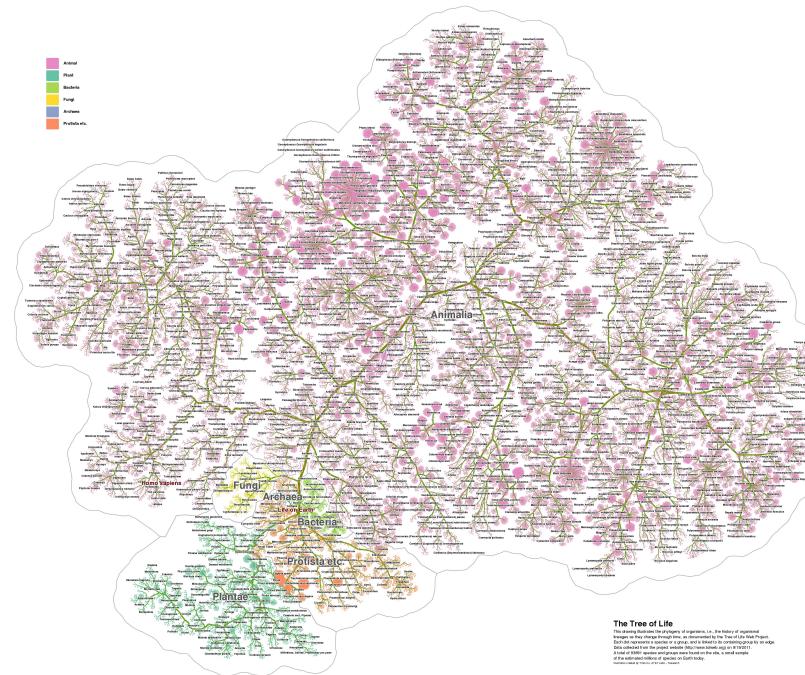
All the major and many of the minor living branches of life are shown on this diagram, but only a few of those that have gone extinct are shown. Example: Dinosaurs - extinct



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evogeneao.com

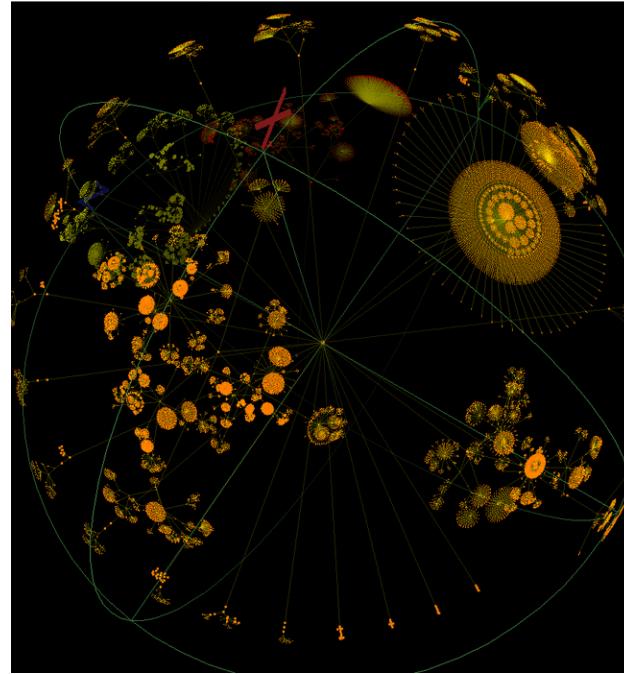
<http://www.evogeneao.com/>

Interactive ToL (2)

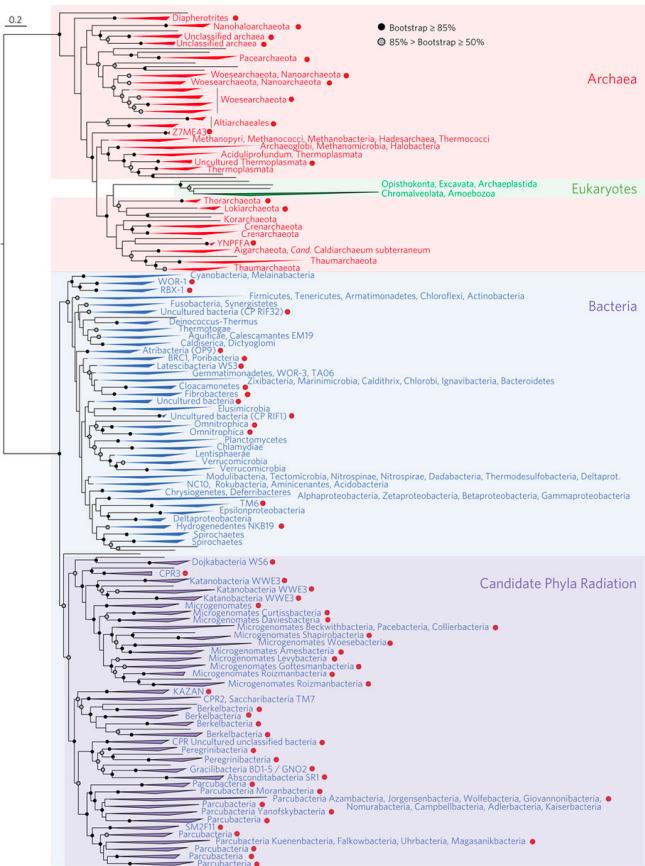
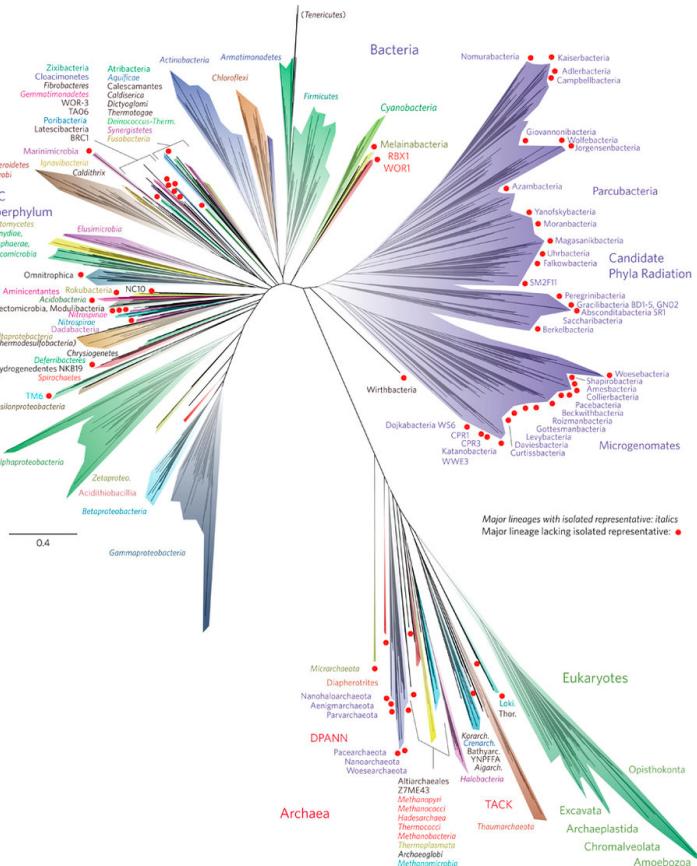


<http://www2.research.att.com/~yifanhu/TOL/>

ToL Using Walrus



<http://digitised.info/content/view/20/51/>



<https://www.nature.com/articles/nmicrobiol201648>



CHANGE THE WORLD FROM HERE