Making Phylogenetic Trees

Image Credit: via PhyloT

Go to the website PhyloT in order to get your species configured into the correct code for the second program which makes your trees. All genetic data is harvested from NCBI. http://phylot.biobyte.de/

phylGT : a tree generator	5			Home Help Contact
	/ OT	n NCBI taxono	my	
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xamples: et e2 e3 e4 e5		一人不不是	Upload a file with elements: Choo	se File No file chosen
Tree options			File options	B
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Filtering	Interrupt at		phyloXML	provided

1. When you first visit the website you will see this

- 2. Enter names of species in the box that says Tree elements: (A)
 - Make sure that you enter names in the correct Scientific Naming format Genus (capital first letter) Species (all lower case).
 - You must also make sure that you use commas between names or a new line
 - Make sure that Scientific names is clicked for the search (B)

3. Once you have entered the Scientific Names you can roll down to the bottom of the web page



	Tree elements:
	Tradescantia ohiensis Verbena stricta Veronicastrum virginicum Zizia aurea
	Examples: #1 #2 #3
	Tree options
	Identifiers
	Scientific names NCBI Taxonomy IDs
	Filtering
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1	Generate tree
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- phyloT_generated_t....txt ^
- 4. You can now click on the Generate tree button (D)
- 5. It will download a txt file for you (E)
- 6. You can drag this file over to the next website or open it and copy and paste its contents
- 7. Visit the Interactive Tree of Life website <u>https://itol.embl.de/</u>

It should look like this



8. Click on the Upload a tree button (F)

9. When you get to this window you have a couple options that you can pursue to get your data into the program

Use this page to upload and visualize a new phylogenetic tree. It should be in a plain text file and in a supported format (Ne You can also use .jplace files generated by RaxML or pplacer, or .qza trees generated by QIIME 2. Please check the help p instructions.	
Frees uploaded anonymously will be stored for 30 days, and are not protected from modifications by other users. If you was protected, or have multiple trees to visualize, we recommend creating an iTOL personal account. If you already have an ac	
Datasets and other annotation should be dragged and dropped directly onto the interactive tree. Please check the help pag and dataset template files.	ges for detailed instructions
Upload a new tree	
Tree name:	
optional	
Paste your tree into the box below, or select a file using the Tree file selector. You can also simply drag and drop the tree file onto the page (only a QZA files).	s regular plain text file, not QIIME
Tree text:	
Н	-
Tree file:	
Choose File no the chosen	
Upload	

10. You can drag and drop your txt file into Tree text window (G). You can copy and paste your txt file into Tree text window (G). Or if you saved your txt file you can choose file (H) and upload it (I)

11. Once you enter your data it will automatically generate your tree for you.



12. You can zoom in and out of your tree, change it from normal (K) to Circular (J) or Unrooted (L)