Week 2

Why we need to make trees?

-Add new data

-Specialized trees

-New methods

TreeBASE

#Nexus – format of tree files

#Newick – has parentheses to denote clades

Numbers = tree length

Open Tree of Life – project to put everything on one tree

Clade – group of all organisms with a specified common ancestor

Taxonomy is trying to use named clades to organize

Polytomy – uncertainty in treemaking/node forming. Soft polytomy = uncertainty, Hard polytomy = how truthful it is

Downloading a tree also gets supporting trees (trees used to construct the tree you downloaded)

Tnrs\_match\_names = match

GBIF – database for biodiversity data

Can be used for predicting species survival/existence in certain areas, SDMs,

ROpenSci – group writing packages to find and pull data from specified databases (ex. a package for pulling data from PaleoDB)

There are ways to pull data from websites, find papers