

Troubleshooting

The followings are some of the problems you might run into when running PhyloNet:

1. Outdated Java version

Error:

```
Exception in thread "main" java.lang.UnsupportedClassVersionError: edu/rice/cs/bioinfo/programs/phyloNet
/Program : Unsupported major.minor version 51.0
```

Solution: Update your Java to 1.7.0 or later

- To check your Java version, type "java -version" on your command line.
- To download Java 1.7, please go to website <http://www.java.com/en/download/>.
- To link to the new downloaded Java 1.7, for mac, try these two commands from command line:
sudo rm /usr/bin/java
sudo ln -s /Library/Internet\ Plug-Ins/JavaAppletPlugin.plugin/Contents/Home/bin/java /usr/bin

2. Wrong format of gene trees

Error:

If your gene trees have support values as node labels, PhyloNet cannot read them correctly. See [Rich Newick Format](#) for the format of phylogenies that PhyloNet reads. For example, if your gene tree is (((A:1.0,B:1.0)100:1.0,(C:1.0,D:1.0)100:1.0)90:1.0,E:1.0), PhyloNet will read the support values as the names of nodes so that you will get error indicated below

```
Duplicate node 100
```

Solution: Download the executable [TreeConversion.jar](#) and run it on your gene trees

TreeConversion.jar runs from command line as follows. It takes two parameters, including *inputFile* which contains your gene trees and *outputFile* which is the file for the resulting gene trees.

```
>java -jar PATH/TreeConversion.jar inputFile outputFile
```

3. Not enough memory

Error:

Some commands require a large amount of memories, like [InferNetwork_ML](#). If your dataset is large, you might run into memory issue indicated below

```
java.lang.OutOfMemoryError: Java heap space
```

Solution: Increase the memory by using **-Xmx**

When you launch PhyloNet from command line, add **-Xmx** followed by the memory size you want to allocated to Java. For example, if you want to increase the memory to 4G for running PhyloNet, run the following command

```
>java -jar -Xmx4G PATH/jar/PhyloNet_X.Y.Z.jar script.nex
```

