

Installing 2 remaining programs

path-o-gene=tempest

- Download the java version (<http://tree.bio.ed.ac.uk/download.html?name=tempest&id=102&num=3>), ie third link on this website:
<http://tree.bio.ed.ac.uk/software/tempest/>

→ either directly via the guacamole desktop instance or download to your computer and upload to the instance (eg
\$ rsync -avz TempEst_v1.5.3.tgz phylogenomics@<ip>:/path/to/target/directory)

unzip in directory

```
$ tar -xzvf TempEst_v1.5.3.tgz
```

To run: In the guacamole desktop, open a terminal, cd to the directory with tempest and run like this:

```
$ java -jar  
TempEst_v1.5.3/lib/tempest.jar
```

This opens a GUI window

tracer

- <https://github.com/beast-dev/tracer/releases>
(Tracer_v1.7.1.tgz --- Linux/UNIX version)

→ either directly via the guacamole desktop instance or download to your computer and upload to the instance (eg

```
$ rsync -avz
```

```
tracer_v1.7.1.tgz phylogenomics@<ip>:/path/to/target/directory)
```

- it is helpful to create an own directory for Tracer because it doesn't create a directory when unzipping

in the instance directory

```
$ tar -xzvf Tracer_v1.7.2.tgz
```

To run: \$ java -jar lib/tracer.jar