

How to Get rJava Working in RStudio on macOS

Step 1.

Make sure that you have Java installed on your Mac.

Step 2.

Open Terminal and type:

```
ls /Library/Java/JavaVirtualMachines
```

You'll see an output. Mine says "jdk1.8.0_20.jdk"

Then, find where that file is stored in your computer.

For me, this was the directory:

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_20.jdk/Contents/Home/jre/lib/server/libjvm.dylib
```

Step 3.

Next, you'll need to first locate where rJava ("rJava.so") is stored on your computer.

For me, this was the directory:

```
/Library/Frameworks/R.framework/Versions/3.6/Resources/library/rJava/libs/rJava.so
```

Step 4.

In RStudio, type:

```
library(qdap)
```

You'll see an error message something like this:

```
Error: package or namespace load failed for 'rJava':
.onLoad failed in loadNamespace ( ) for 'rJava', details:
call: dyn.load(file, DLLpath = DLLpath, . . .)
error: unable to load shared object
'/Library/Frameworks/R.framework/Versions/3.4/Resources/library/rJava/
libs/rJava.so':
dlopen(/Library/Frameworks/R.framework/Versions/3.4/Resources/library/
rJava/libs/rJava.so, 6): Library not loaded:
/Library/Java/JavaVirtualMachines/jdk-
11.0.1.jdk/Contents/Home/lib/server/libjvm.dylib
Referenced from:
/Library/Frameworks/R.framework/Versions/3.4/Resources/library/rJava/l
ibs/rJava.so
```

Notice that the “Versions” of rJava is different between that in your directory and in the RStudio error and also the directory of the “.jdk” file is different.

Step 5.

In Terminal, type:

```
install_name_tool -change /Library/Java/JavaVirtualMachines/jdk-11.0.1.jdk/Contents/Home/lib/server/libjvm.dylib \  
>  
/Library/Java/JavaVirtualMachines/jdk1.8.0_20.jdk/Contents/Home/jre/lib/server/libjvm.dylib \  
>  
/Library/Frameworks/R.framework/Versions/3.6/Resources/library/rJava/lib/rJava.so
```

[type in as 3 separate lines in the terminal where the “\
” designates the return to the next line, starting with the “>”.]

The first directory should match that found in the error message in Step 4.

The second directory should be what you found in Step 2.

The third directory should be what you found in Step 3.

Step 6.

Close and reopen RStudio: type:

```
library(qdap)
```

The code should properly run now.