R programming in QGIS

1. In QGIS - use Settings – Options - IDE - Processing – providers – R set R Scripts folder to C:\Users\tlb\Documents\Software\QGIS\_plugins\rscripts and then hit OK
2. In that folder create a <program>.rsx e.g. test1r.rsx

##User scripts=group

##Test1R=name

##Layer=vector

##Field=Field Layer

##Min=output number

##Max=output number

##Summary=output string

Min <- min(Layer[[Field]])

Max <- max(Layer[[Field]])

Summary <- paste(Min, "to", Max, sep = " ")

1. To access a small R script use a line in the rsx file:

source("C:/Users/tlb/Documents/Software/QGIS\_plugins/rscripts/First.r")

1. To access the R script from QGIS python:

processing.run("r:test1r", {'Layer':'C:/Users/tlb/Documents/Data/world/Q\_RFtest/SplAndSed.shp','Field':'CORED\_LENG','R\_CONSOLE\_OUTPUT':'TEMPORARY\_OUTPUT'})

### [26.10.5.1. Adding R scripts from the QGIS collection](https://docs.qgis.org/testing/en/docs/user_manual/processing/3rdParty.html#id14)

1. Add the *QGIS Resource Sharing* plugin (you may have to enable Show also experimental plugins in the Plugin Manager Settings)
2. Open it (Plugins –> Resource Sharing –> Resource Sharing)
3. Choose the Settings tab
4. Click Reload repositories
5. Choose the All tab
6. Select QGIS R script collection in the list and click on the Install button
7. The collection should now be listed in the Installed tab
8. Close the plugin
9. Open the Processing Toolbox, and if everything is OK, the example scripts will be present under R, in various groups (only some of the groups are expanded in the screenshot below).
10. If, for some reason, the scripts are not available in the Processing Toolbox, you can try to:
11. Open the Processing settings (Settings ► Options ► Processing tab)
12. Go to Providers ► R ► R scripts folder

C:\Users\tlb\AppData\Roaming\QGIS\QGIS3\profiles\default\resource\_sharing\repositories\github.com\qgis\QGIS-Resources\collections\rscripts

1. To edit, double-click. You can then choose to just paste / type the path, or you can navigate to the directory by using the … button and press the Add button in the dialog that opens. It is possible to provide several directories here. They will be separated by a semicolon (“;”).