

Instructions to view Trendy Shiny Application

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3/24/2019

Below are step-by-step instructions on how to interactively view the data using the Trendy Shiny App.

Step 1:

Download the dataset from the manuscript's Github page:

<https://github.com/rhondabacher/RobotSeq>

In the TrendyShiny folder there are the following dataset options:

Human and mouse time-courses sampled for 600 minutes:

- mouseRobot_scaled0to1_trendyForShiny.RData
- humanRobot_scaled0to1_trendyForShiny.RData

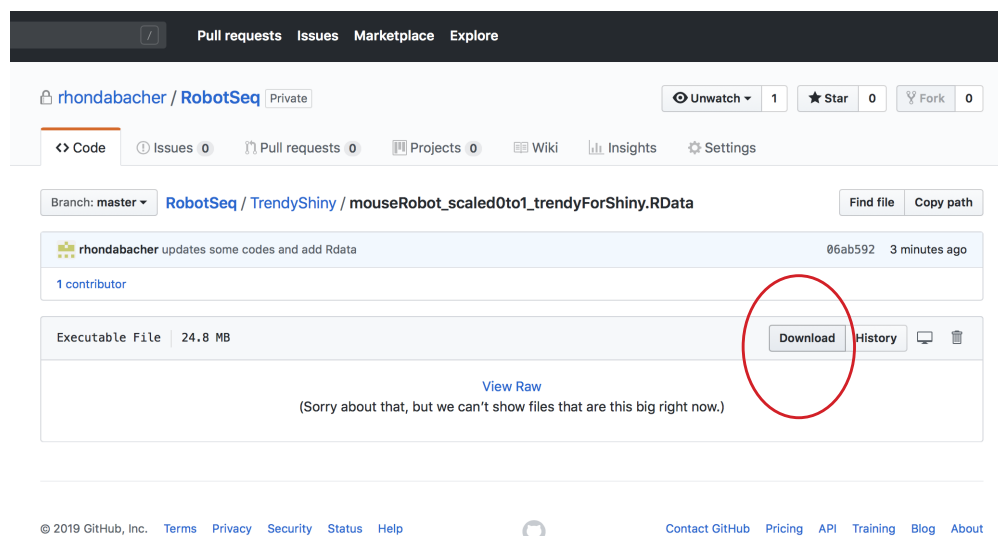
Human control time-course sampled for 600 minutes:

- humanRobotControl_scaled0to1_trendyForShiny.RData

Human and mouse time-courses from Barry et al., 2017:

- mouseRobot_scaled0to1_trendyForShiny.RData
- humanRobot_scaled0to1_trendyForShiny.RData

Download the file that you want to look at in the Shiny App. by clicking Download:

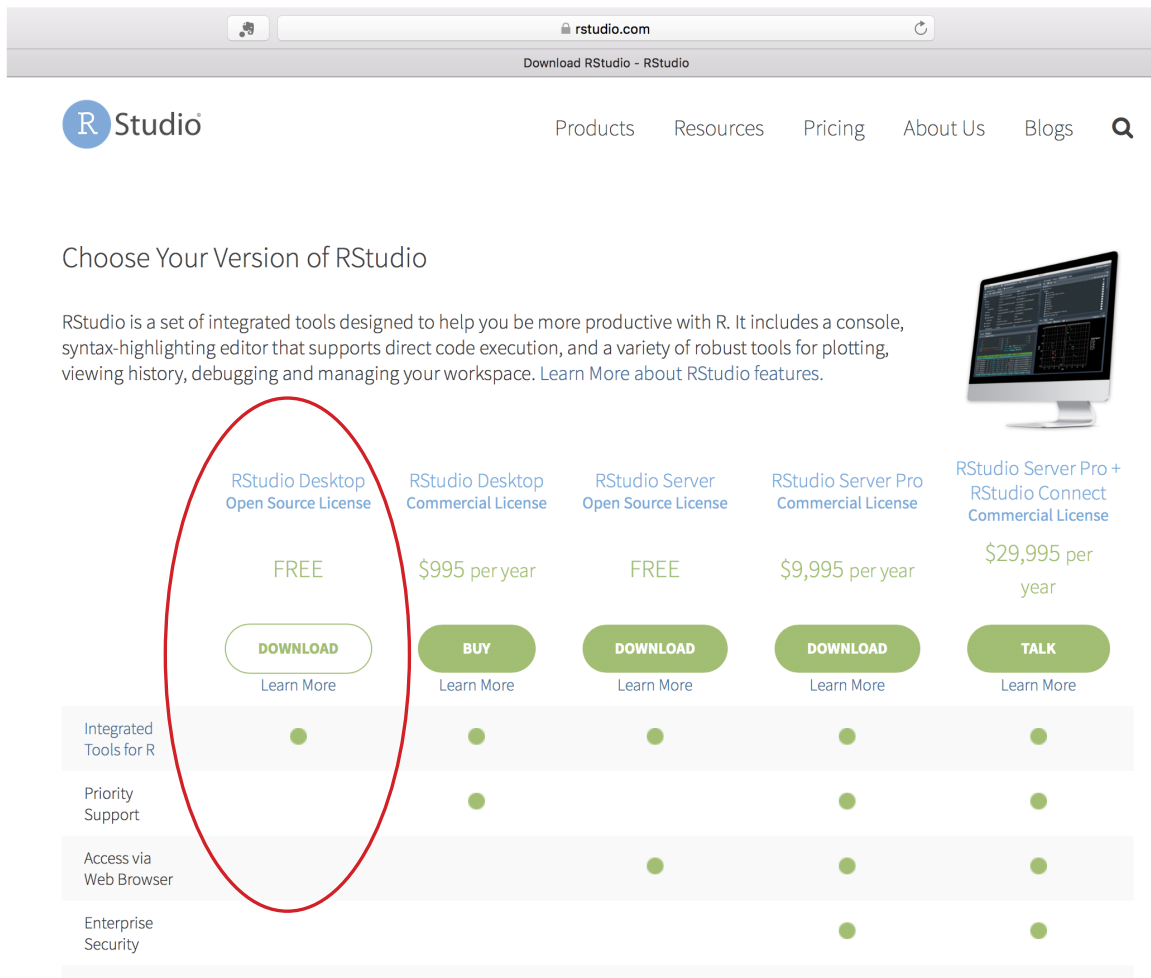


Step 2 :

Open a session of R or RStudio.

If you do not have RStudio, it can be downloaded for free at: <https://www.rstudio.com/products/rstudio/download/>

(Select the free option “RStudio Desktop”).



The screenshot shows the RStudio website's product selection page. The 'RStudio Desktop Open Source License' option is highlighted with a red circle. Below the product names, a table compares features across different licenses. The 'RStudio Desktop Open Source License' is the only one that is free and available for download.

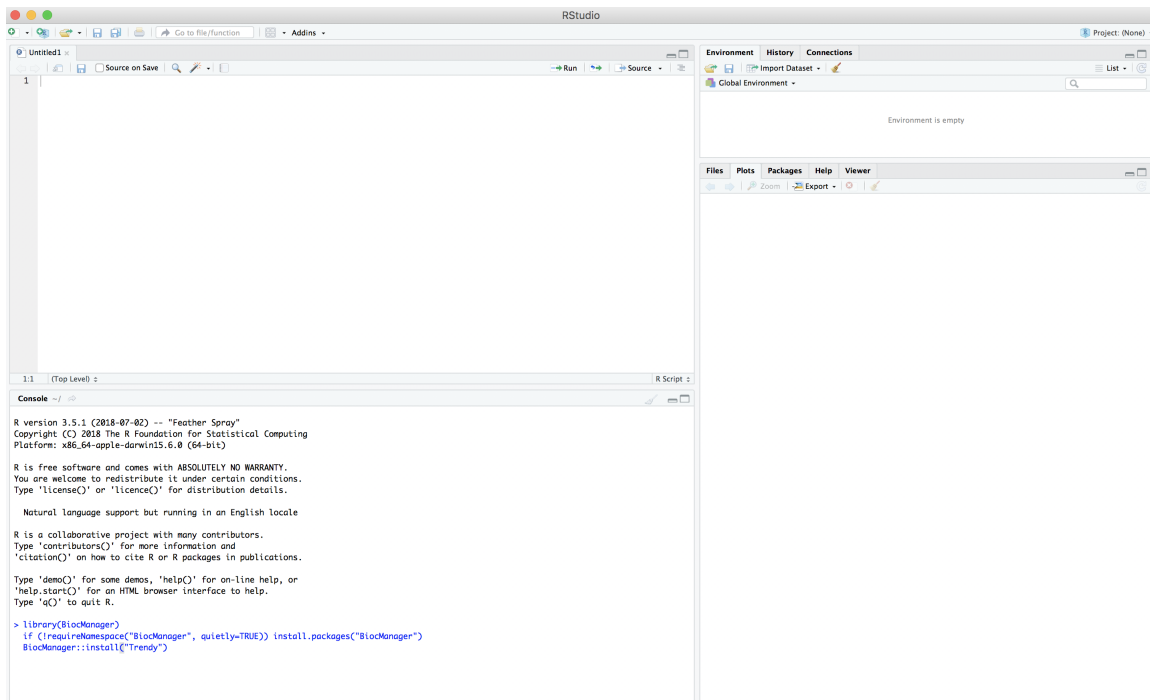
	RStudio Desktop Open Source License	RStudio Desktop Commercial License	RStudio Server Open Source License	RStudio Server Pro Commercial License	RStudio Server Pro + RStudio Connect Commercial License
	FREE	\$995 per year	FREE	\$9,995 per year	\$29,995 per year
	DOWNLOAD Learn More	BUY Learn More	DOWNLOAD Learn More	DOWNLOAD Learn More	TALK Learn More
Integrated Tools for R	●	●	●	●	●
Priority Support		●		●	●
Access via Web Browser			●	●	●
Enterprise Security				●	●

Step 3:

To install Trendy, type the following into the Console:

```
library(BiocManager)
if (!requireNamespace("BiocManager", quietly=TRUE)) install.packages("BiocManager")
BiocManager::install("Trendy")
```

Example:



Step 4:

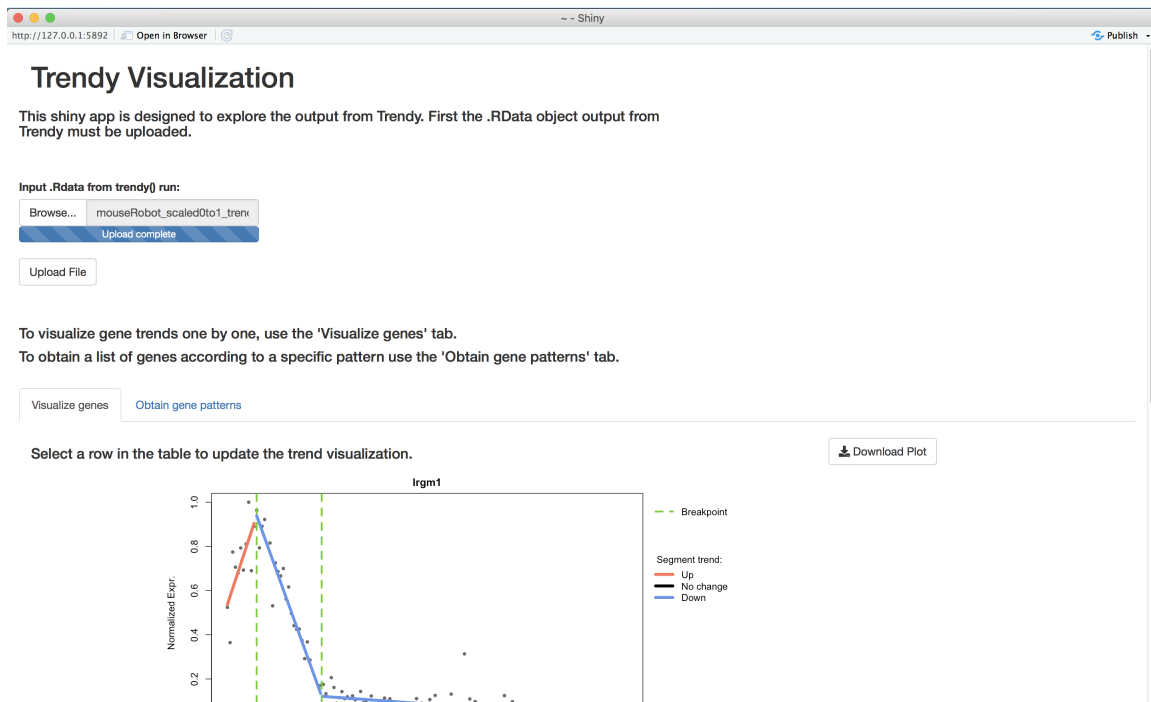
To open the Trendy Shiny App, type the following into the console:

```
library(Trendy)
trendyShiny()
```

A page will then pop-up, which allows you to input the dataset downloaded in Step 1:



After pressing Upload, the plots will load and allow for interactive exploration.



Questions?

Any questions may be emailed directly to rbacher@ufl.edu or submitted on Github as an Issue here: <https://github.com/rhondabacher/RobotSeq/issues>