

Instructions to view Trendy Shiny Application

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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

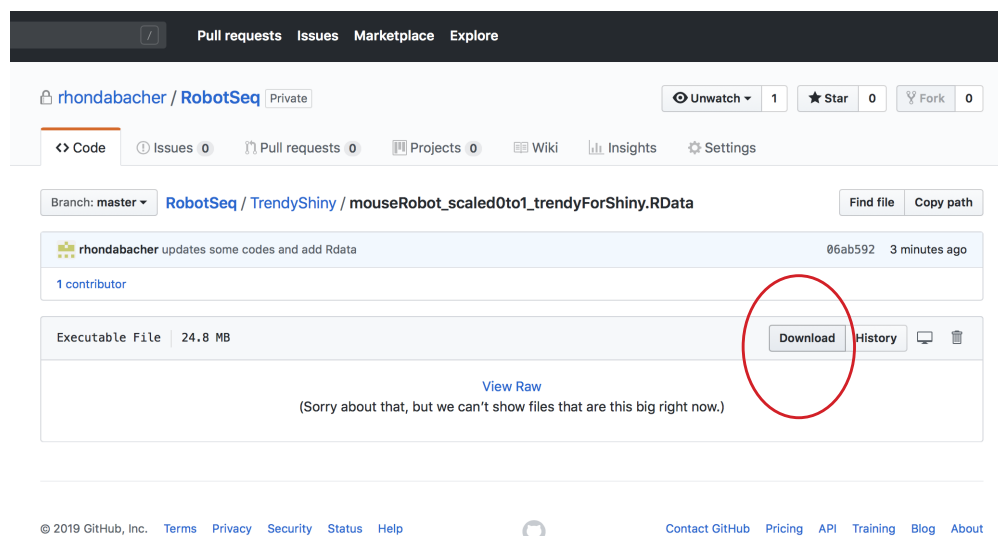
Human control time-course sampled for 600 minutes:

- 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:



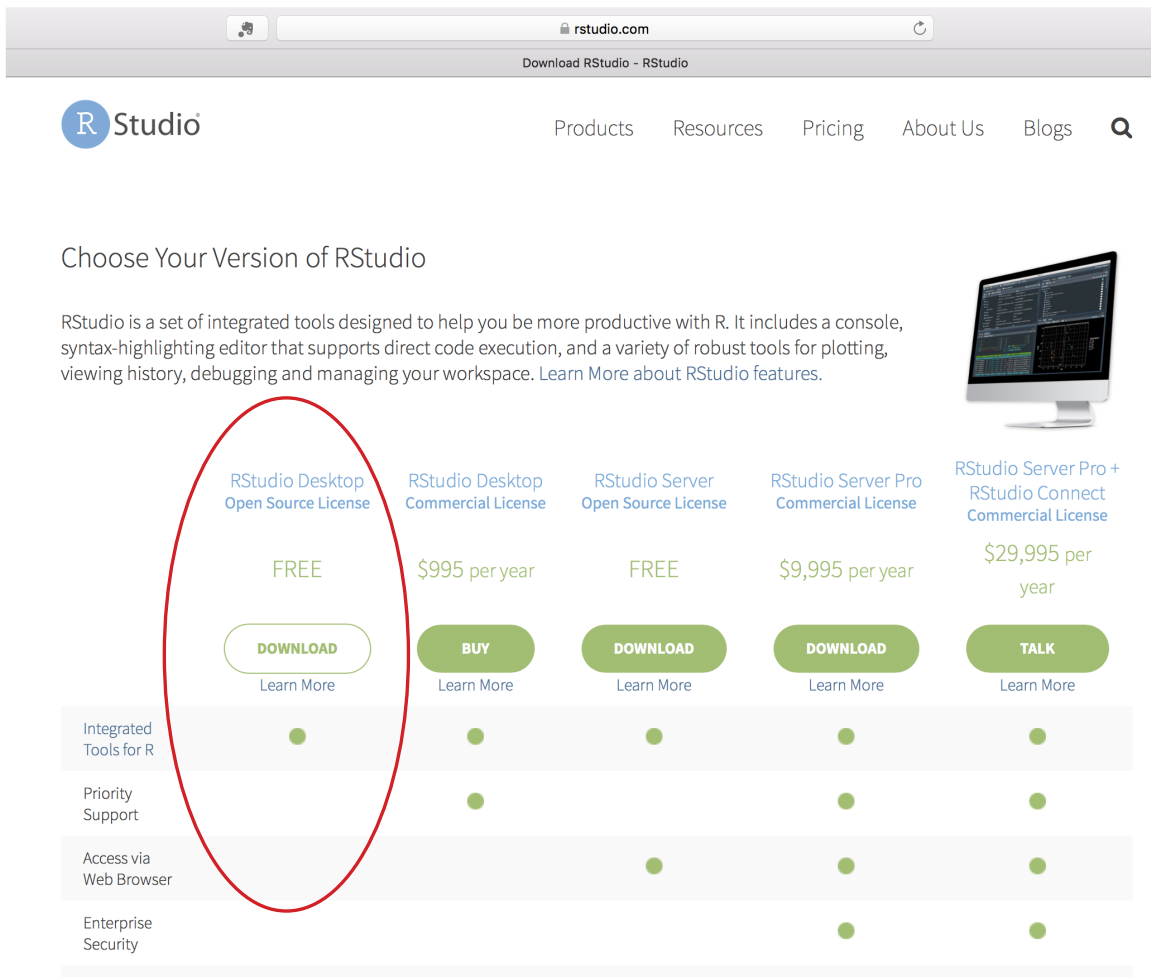
Step 2 :

Open a session of R or RStudio.

If you do not have R installed, it can be installed for free at: <https://cran.r-project.org>

Then to install RStudio, it can be downloaded for free at: <https://www.rstudio.com/products/rstudio/download/>

(Select the free option “RStudio Desktop”).



Choose Your Version of RStudio

RStudio is a set of integrated tools designed to help you be more productive with R. It includes a console, syntax-highlighting editor that supports direct code execution, and a variety of robust tools for plotting, viewing history, debugging and managing your workspace. [Learn More](#) about RStudio features.

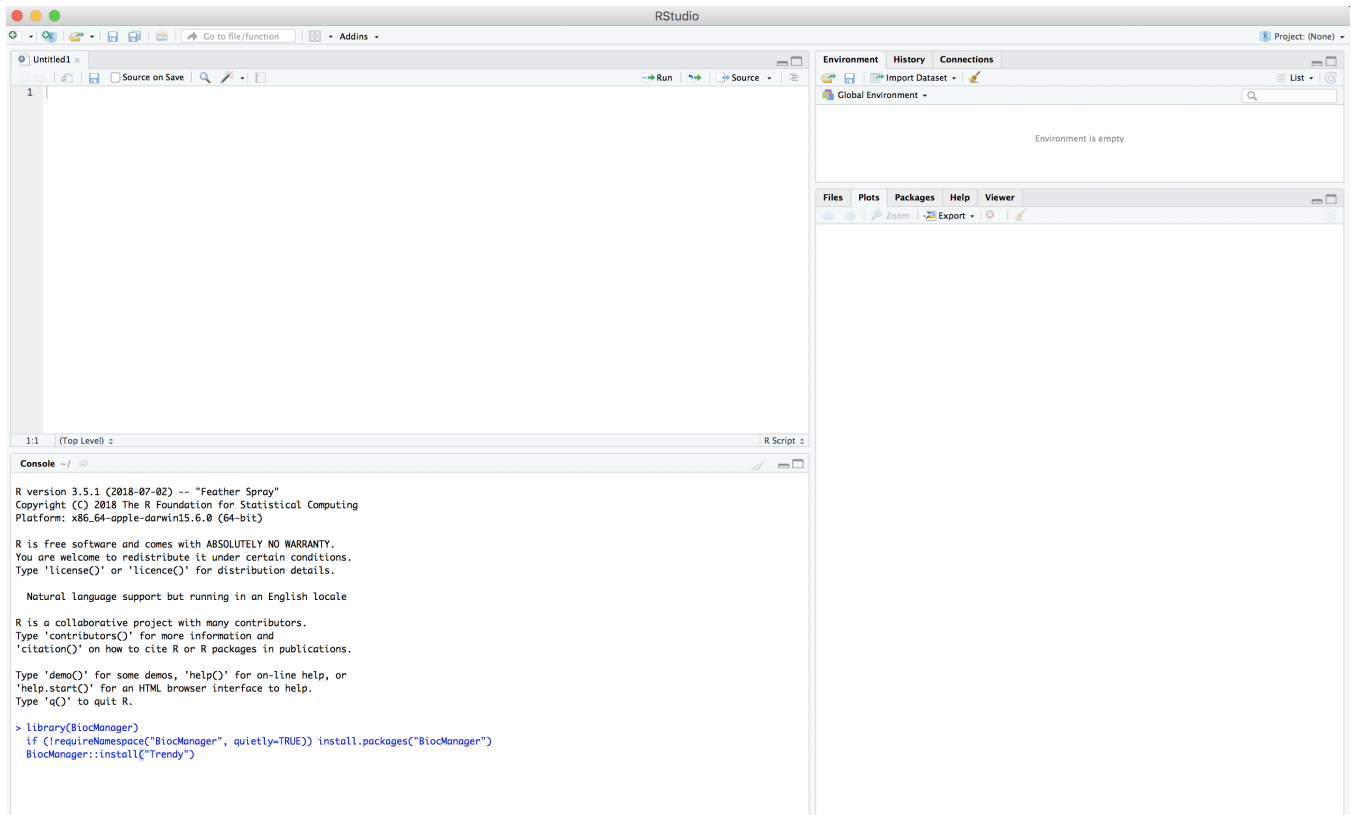
	RStudio Desktop Open Source License	RStudio Desktop Commercial License	RStudio Server Open Source License	RStudio Server Pro Commercial License	RStudio Server Pro + RStudio Connect Commercial License
	FREE	\$995 per year	FREE	\$9,995 per year	\$29,995 per year
	DOWNLOAD Learn More	BUY Learn More	DOWNLOAD 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:

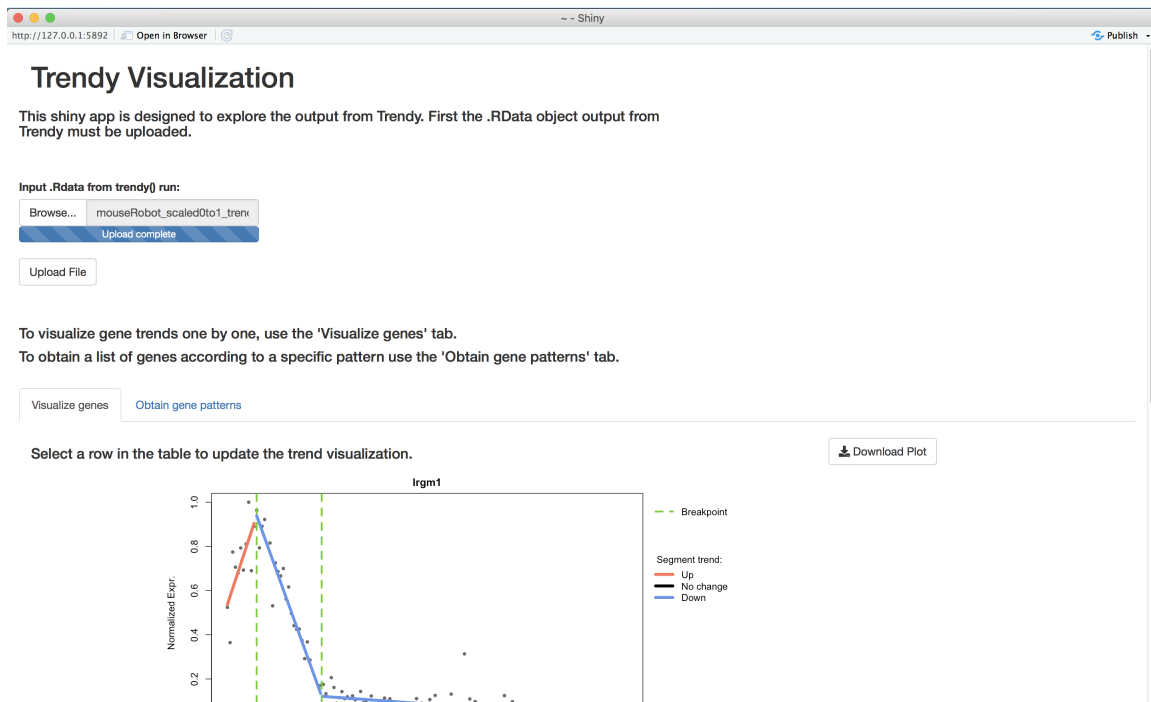
To open the Trendy Shiny App, type the following into the console:

```
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>