

Install R and RStudio

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4	Run the Genetic Metrics Software	5	Import the Pedigree File	6	Browse Pedigree; Refine Breeding Population
7	Calculate Genetic Value	8	View Summary Statistics	9	Calculate Potential Breeding Groups
	Definitions and Citations		Genetic Value Analysis Algorithm		Breeding Group Formation Algorithm

The Colony Genetic Metrics package works with the most recent version of R and RStudio. If you are running older versions of R or RStudio, please upgrade your R software by downloading the most recent version.

Install R:

- <https://www.r-project.org/>

Install RStudio:

- <https://www.rstudio.com/>

Install Shiny:

- Open **RStudio**.
- In the bottom-right panel of the RStudio IDE, there are 5 tabs (labeled "Files", "Plots", "Packages", "Help", and "Viewer")
- Click on the **Packages** tab.
- Click on the **Install** button located on the Packages tab.
- In the window that pops up, enter "**shiny**" in the text entry field.
- Click the **Install** button of this window to install the Shiny package and all of its dependencies.
- Restart RStudio

Video Tutorial:

[Watch Demonstration Video](#)

R:

<https://www.r-project.org/>

RStudio:

<https://www.rstudio.com/>