Install & Use Packages in R

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Install a Package

In this tutorial, we will walk you through installing the rmarkdown, knitr and ggplot2 packages for R.

Learning Objectives

At the end of this activity, you will:

- Know how to install an R package using Rstudio.
- Be able to explain what a package is in R.

What is a Package?

A package, in R is a bundle of pre-built functionality. Think of it like a toolbox. Except for the tools, may do things like calculate a mathematical function e.g. sum or create a plot.

Install a Package

In R we install packages using the install.packages("packageNameHere") function. Let's get rmarkdown and knitr installed so we can use them in our exercises. In the R console within Rstudio, use the code below to install packages individually.

```
# install knitr
install.packages("knitr")

# install the rmarkdown package
install.packages("rmarkdown")

# install ggplot for plotting
install.packages("ggplot2")
```

Data Tip You can install as many packages as you one in one string of code as follows install.packages(c("name-one", "name-two")) {: .notice }

Call Package in R

Once the package is installed, to use it, you call the package at the top of your script like this:

```
library(knitr)
library(rmarkdown)
library(ggplot2)
```

Note that you don't need to use quotes around the package name when you call it using the library() function. But you do need the quotes when you install a

In our case, the knitr and rmarkdown packages load buttons and options within the Rstudio environment that we can use. Thus we won't have to call these two packages in our code in this lesson. However, when we use ggplot2 to plot, we will have to call it. We will see how calling a package works in a later set of lessons.