

Download and Knit the lab:

Download the R Markdown (Rmd) file, open it in RStudio, and click on Knit. This document contains the instructions for the lab. **IMPORTANT:** You must download and Knit this file and be able to view the instructions in it to complete the Week 4 Lab, so make sure to complete these steps before starting the lab.

```
inf_for_categorical_data_Course...
```

As you go through the contents of the lab instructions document you will encounter multiple choice questions, make sure to **submit your answers** to those questions in the lab section (next item) to get credit. The ones marked with Exercise are for your own practice -- you don't need to submit your answers to them.

If you have not completed Weeks 1 - 3 Labs:

You will need to first complete the following before you can work on Week 4 Lab:

Install R and RStudio:

First, you will need to install R and RStudio. R is the name of the programming language itself and RStudio is a convenient interface.

- **Install R:** Go to <https://cran.r-project.org/> and follow the link for your operating system.
- **Install RStudio:** Go to <https://www.rstudio.com/products/rstudio/download/> and click on the installer link for your operating system.

See [this video](#) for step-by-step installation instructions if needed.

NOTE: If you already have R and RStudio installed, you should still visit these links to confirm that you have the most recent versions of these software. The most recent version of R can be found on [The R Project for Statistical Computing page](#) and the most recent version of RStudio can be found on the [Download RStudio page](#). Please install the most recent versions before proceeding.

Install R packages:

Install and load devtools:

We will use the devtools package to install the statsr package associated with this course. We need to install and load this package. Launch RStudio, and the following commands in the **Console**:

```
install.packages("devtools")
```

```
library(devtools)
```

Install all other packages:

Now we can install the rest of the packages we will use in this lab. Type the following commands in the **Console** as well:

```
install_github("StatsWithR/statsr")  
install.packages("dplyr")  
install.packages("ggplot2")  
install.packages("shiny")
```

The uses of these packages will be discussed in detail in the lab(s).