

SOC 4650/5650: Exercise 02a - Analysis Development

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Directions

We'll work through the following steps together to introduce some concepts about analysis development.

Installing Dependencies in RStudio

1. Install here:

```
install.packages("here")
```

2. Install knitr:

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

3. Install rmarkdown:

```
install.packages("rmarkdown")
```

Other Software

4. Install GitHub Desktop. If you are using a lab computer, there should be a folder with the appropriate installer. Otherwise, you can go to <https://desktop.github.com> and download the installer.

Using Git and GitHub

5. Login to GitHub Desktop using your GitHub username and password.
6. **Clone** your assignments repository to your course folder structure or, if you haven't downloaded it yet, to your Desktop.
7. Add the Lecture Prep 02 file to DoeAssignments/LecturePreps/LP-02

8. Add a commit message like “Submitting Lecture Prep 02” and **commit** the changes.
9. **Push** the changes to GitHub.com
10. Go to your repository (start by pointing your browser to <https://github.com/slu-soc5650/> and finding your assignments repo) and make sure the changes have registered.

R Projects and Project Folders

11. Open RStudio
12. Create a new R Project that is associated with an *existing directory*. That directory should be the LP-02 folder in your course folder structure.
13. Add a docs subfolder to LP-02 and move the notebook (and any associated files) into that subfolder.
14. Open GitHub Desktop and **commit** the change.

Additional Sections and Kitting

15. Open the Lecture Prep 02 notebook and add a third second-level heading that looks like this:

```
## Load Dependencies
```

16. Add some introductory text on the next line:

```
The following code loads the package dependencies for our analysis:
```

17. Add a new code chunk named package-load that contains the following code and execute it:

```
```{r package-load}
library(ggplot2) # creating plots
```
```

18. Save your document and be sure that a .nb.html file is created.
19. **Knit** your document to produce the GitHub output.
20. Open GitHub Desktop, **commit** the change, and **push** it to GitHub.com