

MA799 Assignment 1: World Development Indicators

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The first assignment is a report in which you investigate specific topics using the the series indicators from the World Bank. See the World Development Indicator topics ([link](#)) to learn more about the data.

The report should be written from the perspective that your reader is a manager or client. Include the **R** commands, the results of these commands and the interpretations of these results in your report. In addition, describe the **R** commands used in order to give your reader a better understanding of your analysis. Recall the writing guidelines from week two.

Assignment details

Two drafts of the report will be due before the final report. The second draft and final report should include, and will be graded on, all previously requested material. You should update previous material, based on previous comments, in the second draft and in the final report.

1. Introduction, 20%, due 3 Oct 2016: Provide background for and an introduction to the dataset. Introduce and describe the goals of your analysis and the types of variables you plan to analyze.
2. Data summaries, 20%, due 17 Oct 2016: Describe each variable, including the units of the numeric variables. Describe the meaning of the observations of the dataset. Include summaries of individual variables using *only* the `group_by` and `summarize` functions from the `dplyr` library. You must use the pipe operator from the `magrittr` library. Each summary should be interpreted in a way that informs the reader of important information about that variable or those variables in the context of the data set.
3. Final report, 60%, due 31 Oct 2015: Work from all drafts should be unified into a single comprehensive report. Make corrections based on all comments and look for ways to improve your report.

The drafts should be printed and this printout should be brought with you to class on the due date. You only need one copy of each draft.

The final report should be emailed as an HTML file to `doury@bentley.edu` in reply to an email I will send to you. The name of the file should be `A1-[shortname-list].pdf`, where `[shortname-list]` should be replaced by the list of Bentley shortnames for the members of your group where you place a dash “-” between each shortname. For instance, `A1-bobama-doury.pdf`.

A template is provided on Dropbox in `Week01 report template.Rmd` to get started in creating your report. Download the file and rename as specified above. Open and edit this file with **RStudio**. Change the author information to include the names of all group members. You will not use all sections from the template for this report.

Data set construction

You will need to create a dataframe from at least ten (10) WDI indicator codes. Find the download links at <http://data.worldbank.org/data-catalog/world-development-indicators>. Use the code in `Week04_WDI_CSV.R/Rmd` to find the indicator codes and year ranges to create your data set.

We will cover this material in class on Oct 3.