Setup for reticulate session

Michael Espero

1/26/2020

What might you want to use along with `reticulate`?

`reticulate` is an R package that facilitates interoperability between R and Python in RStudio. Here's what you'll need:

- R
  - If you don't already have R on your system because you prefer Julia, SAS, or a GUI like SPSS or JASP, go here to get R: https://www.r-project.org
- RStudio
  - If you don't already have RStudio, go here: https://rstudio.com/products/rstudio/
- Python (your preferred version)
  - If it's not already installed on your system, go here: https://www.python.org/downloads/

We'll demonstrate *a few* of the great tools **built by the R and Python community**. Consider installing these packages/modules ahead of time.

We'll touch on a couple ways to install these packages and modules in the session (i.e. from a code chunk in RStudio; from the console).

- Some Python modules we'll use include: `pandas`, `numpy`, and `seaborn`.

- `pacman` is an R package management tool that simplifies the steps typically required when installing and loading R packages.

- We'll likely use tools from R packages such as the `tidyverse`, `ggthemes`, `janitor`, `lubridate`, and of course, the `reticulate` package.

- We'll see about the "*love story*" between R and Python with a look at the Natural Language Tool Kit (NLTK) using text data from personal ads.

  - This is a great Python module for processing and modeling text data. Depending on the components you wish to have access to (functions, data, etc.) it may take a bit of time to download and install.
  - Check out the documentation for installing NLTK here: https://www.nltk.org/install.html