# Final Project Business Requirements

* Proposal describes
  + Motivation for performing this analysis.
  + Likely data sources.
* Your project has a recognizable “data science workflow,”
  + such as
    - the OSEMN workflow or
    - Hadley Wickham’s Grammar of Data Science.
  + [Example:
    - First the data is acquired
    - , then necessary transformations and clean-up are performed
    - , then the analysis and
    - presentation work is performed]
* Includes data from at least *two* different types of data sources
  + relational or CSV
  + Neo4J
  + web page [scraped or API]
  + MongoDB
  + etc.
* Includes at least one
  + Data transformation operation. [Examples: transforming from wide to long; converting columns to date format]
  + Statistical analysis that describes or validates your data.
  + Statistical analysis that supports your conclusion(s).
  + Graphic that describes or validates your data.
  + Graphic that supports your conclusion(s).
  + Feature that we did not cover in class!
    - There are many examples: “I used ggmap; I created a decision tree; I ranked the results; I created my presentation slides directly from R; I figured out to use OAuth 2.0…”
* Presentation.
  + Was the presentation delivered in the allotted time (3 to 5 minutes)?
  + Did you show (at least) one challenge you encountered in code and/or data,
    - and what you did when you encountered that challenge?
    - If you didn’t encounter any challenges, your assignment was clearly too easy for you!
  + Did the audience come away with a clear understanding of your motivation for undertaking the project?
  + Did the audience come away with a clear understanding of at least one insight you gained or conclusion you reached or hypothesis you “confirmed” (rejected or failed to reject…)?
* Code and data.
  + Have you delivered the submitted code and data where it is self-contained?
    - preferably in rpubs.com and github
  + Am I able to fully reproduce your results with what you’ve delivered?
    - You won’t receive full credit if your code references data on your local machine!
  + Does all of the delivered code run without errors?
  + Have you delivered your code and conclusions using a “reproducible research” tool such as RMarkdown?
* Deadline management.
  + Were your draft project proposal, project, and presentation delivered on time?
    - *Any part of the project that is turned in late will receive a maximum grade of 80%*.
    - Please turn in your work on time! You are of course welcome to deliver ahead of schedule!