Abstract
Using data from the American Census Survey, which samples 1% of US households each year, we first reproduced the results from a study by John Winters which calculated most common majors and average earnings by major among lawyers. We then generalized the R script to enable calculating these statistics for any occupation. The result is a computer program that is easy to modify and which can produce valuable descriptive information for students considering major choice, and other stakeholders.

Project Activities or Findings
• The primary purpose of this project was to create an R script that would be easily extensible, and allow users to explore the average earnings by college major for any occupation.
• The R script would be able to segment a specific occupation – like lawyers, and identify the most popular majors for the specific occupation, as well as the mean earnings for those majors.
• In one extension, we find workers in software development that majored in Computer Science do not earn significantly more than Economics majors.

References / Data
We use a sample of the American Community Survey from 2006-2017 which contained about 45 million observations. The subsamples of lawyers and software developers contain around 50,000 observations.

The data was obtained from IPUMS at the University of Minnesota: www.ipums-usa.org.

The study whose results we reproduced was by John Winters: