# Stat680        Project #1        due October 20

This project aims at getting familiarity with SAS data step and procedures dealing with basic descriptive statistics and practicing using SAS online documentation. So the required data analysis should be only exploratory in nature. Some of these procedures also provide in-depth statistical inference tools. However, use of these tools are not recommended unless you have compelling reasons to do so.

    You are to choose one of the following data sets from the

## Journal of Statistical Education Data Archive

to be used in your project. (Note: click on the links above and below that are typeset in darkblue.)

| Data | Files |
|---|---|
| 2004 New Car and Truck Data | 04cars.dat.txt, 04cars.txt |
| *Pay for Play* baseball data | baseball.dat.txt, baseball.txt, and article |
| NCAA Basketball Tournament Data | basketball.dat.txt, basketball.txt |
| Exploring Relationships in Body Dimensions | body.dat.txt, body.txt, and article |
| Forced Expiratory Volume (FEV) Data | fev.dat.txt, fev.txt, and article |
| NFL Scores for 1998-2000 | nfl98-00.dat.txt, nfl98-00.txt |
| he Statistics of Poverty and Inequality | poverty.dat.txt, poverty.txt, and article |
| Video Lottery Terminal Data | vlt.dat.txt, vlt.txt, and article |

Recommended Tools : use any combination of these tools

- DATA step

- PROC PRINT

- PROC MEANS (or PROC SUMMARY)

- PROC UNIVARIATE

- PROC CORR

- PROC FREQ

- PROC TABULATE

- PROC REPORT

- PROC BOXPLOT (in SAS/STAT)

- DATA step report writing

## Project Collaboration

you are allowed (but not mandatory) to form a team of up to *four* team members. Only one report is required from a team.

## Report Writeup

The project report should be typeset by word processer such as WordPerfect, LaTeX, etc., and in letter-size ($8\frac{1}{2}$in×11in) papers. The report should have a cover page with title and name (or names of the team members) on it. It should contain a table of contents, main sections, and appendices. An introduction should be one of the main sections. The report should end with a summary section. Place only up to 3 key tables and up to 3 key graphs (a figure with multi-panels is considered only 1 graph) in the main sections. Other relevant tables/graphs should be placed in the appendices. A minimum of 5 main-section pages is required for the project report. E-mail project computer codes with attachments to the instructor.