# Guide to the Different Datasets in KINES 7103.

* *data\_800m.csv*: simulated data showing the relationship between 800m run times and VO2 max capacity in three different groups of athletes.
  + *VO2*: VO2max values in mL/kg/min
  + *time*: 800m run times in seconds
  + *groups*: Nordic skiers, soccer players, or recreational control athletes
  + *lin*.c: linear contrast for the effect of group
  + *quad*.c: quadratic contrast for the effect of group
* *data\_AGING*.csv: simulated data from a biomechanical study of younger and older adults who completed 4 different walking trials under 3 different virtual reality conditions.
  + *subID*: individual subject identifiers.
  + *age\_group*: older adults or younger adults
  + *condition*: conditions A, B, C
  + *time*: trials 1-4 in each of the three conditions
  + *speed*: walking time in m/s
* *data\_ALTITUDE*.csv: simulated data replicating normobaric and hypobaric studies of VO2 max testing at different altitudes.
  + *subID*: individual subject identifiers
  + *altitude*: the altitude in meters, at which the high altitude test was conducted
  + *BVO2*: the athlete’s VO2max assessed at baseline (~0m above sea level)
  + *AVO2*: the athlete’s VO2max assessed at altitude
  + *decrease*: the difference between AVO2 and BVO2
* *data\_ANSCOMBE*.csv: data to replicated Anscombe’s quartet, a series of four different regression models that have exactly the same intercepts and slopes, but differ greatly in distribution of residuals and regression diagnostics. These data emphasis that you cannot simply look at summary statistics!
  + *xVal*: values of the hypothetical X variable.
  + *yVal*: values of the hypothetical Y variable.
  + *group*: indicate the subset (1-4) to which the data belong.
* *data\_OZONE.csv*: meteorological data from a weather station several months out of the year.
  + *Ozone*: ozone levels on that day (units unsure).
  + *Solar*.R: solar radiation on that day (units unsure).
  + *Wind*: windspeed on that day (mph)
  + *Temp*: temperature on that day (F)
  + *Month*: numeric code for months (5-9)
  + *Day*: day of the month on which the measurement was taken
* *data\_GAME*.csv: data from an experimental study in which participants learned a video game that required control of the upper-extremity. Participants were assigned to an experimental condition in which they self-selected the difficulty of the game from block to block, or a control condition in which they are assigned to a difficulty that matched a self-controlled counterpart.
  + *subID*: individual subject identifiers
  + *group*: experimental or control
  + *post\_score*: average score on the post-test a week after practice
  + *pre\_score*: average score on the pre-test before practice
  + *FA*: users self-reported ratings of focused attention
  + *US*: users self-reported ratings of usability
  + *AES*: users self-reported ratings of game aesthetics
  + *END*: users self-reported ratings of endogenous motivation
  + *NOV*: users self-reported ratings of novelty
  + *INV*: users self-reported ratings of involvement
  + *EngTotal*: users total self-reported engagement, combining (FA, US, AES, END, NOV, and INV)
* *ex1*.1.txt: Example data from Judd, McClelland, and Ryan (2017), internet access and college graduation rates across different states in the USA.
  + *state*: two letter code for each state
  + *Internet*: average internet access as a %
  + *College*: average college graduation as a %
* *ex6*.2.txt: Example data from Judd, McClelland, and Ryan (2017), height and weight data for children of different ages.
  + *Name*: pseudonym for each fictional child
  + *Sex*: birth sex coded as M and F
  + *Age*: child’s age in years
  + *Height:* child’s height in inches
  + *Weight:* child’s weight in lbs
* *ex8*.1.txt: Example data from Judd, McClelland, and Ryan (2017), hypothetical data from an SAT Preparation course.
  + *Student*: unique individual identifier
  + *Group*: whether or not the student took the SAT prep course
  + *SAT*: score on the SAT test
* *ex8*.2.txt: Example data from Judd, McClelland, and Ryan (2017), hypothetical data from a study in which participants had to complete a different number of experimental tasks while receiving different types of feedback.
  + *Condition*: the type of feedback the subject received
  + *Task*: number of tasks completed by that subject
* *ex9*.1.txt: Example data from Judd, McClelland, and Ryan (2017), hypothetical data from a study combining psychotherapy with pharmaceutical treatment in depression.
  + *Drug*: indicates the type of pharmaceutical treatment received
  + *Psychotherapy:* indicate the type of psychotherapy received
  + *Mood:* mood scores aggregating depressive and non-depressive symptoms (lower scores = greater levels of depression)
* *ex10*.1.txt: Example data from Judd, McClelland, and Ryan (2017), hypothetical data from an education study of classroom education.
  + *score*: end of term scores on a standardized assessment (higher = better)
  + *curriculum:* contrast coded variable for the experimental curriculum (+1) or the traditional control curriculum (-1)
  + *teacher:* contrast coded variable indicating which teacher delivered the instruction
  + *pretest:* pre-term scores on a standardized assessment (higher = better)
* *ex11*.1.txt: Example data from Judd, McClelland, and Ryan (2017), hypothetical data from study in which participants were nested within groups (1-6).
  + *group*: indicates the groups to which participants were randomly assigned
  + *instructions:* the condition to which groups were assigned
  + *score 1:* the rating for the first individual in that group
  + *score 2:* the rating for the second individual in that group
  + *score 3:* the rating for the third individual in that group
    - *higher scores indicate better ratings and group satisfaction*
* *ex11*.22.txt: Example data from Judd, McClelland, and Ryan (2017), hypothetical data from study of relationship satisfaction.
  + *couple*: unique identifier for each couple
  + *children:* indicates whether or not that couple has children
  + *yearsmarried:* indicates the number of years that each couple was married (>/=15 or >/=30)
  + *Male:* relationship satisfaction rating from the male partner in the couple
  + *Female:* relationship satisfaction rating from the female partner in the couple