

22S:30/105, Statistical Methods and Computing

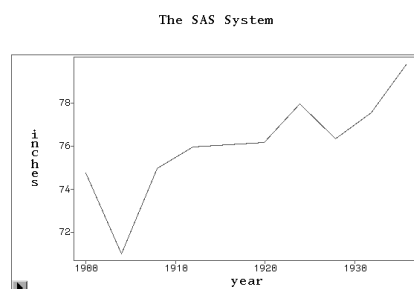
Instructor: Cowles

Spring 2014, Homework 1

Due: Fri., 01/31 in class

Please put your name at the top of your homework, and list the names of any classmates with whom you collaborated.

1. For the years 1900 to 1936, this plot shows the height of the gold-medal-winning male Olympic high jump.



- (a) What type of plot is this?
 - (b) What was the approximate winning jump height in 1932?
 - (c) Give a brief description of the pattern of winning jump heights over these years.
2. Identify each of the following variables as nominal, ordinal, binary, quantitative discrete, or quantitative continuous:
 - (a) number of piglets in a litter
 - (b) whether or not a person has a high school diploma
 - (c) the major of an undergrad quantitative science student (can take on values “computer science,” “informatics,” “math,” “statistics,” “actuarial science”)
 - (d) weight of an elephant in kilograms
 - (e) rating of a performer in a musical competition (can take on values “superior,” “excellent,” “good,” “fair,” “poor”)
 3. Textbook problems: 1.26, 1.30, 1.32, 1.38, 1.40, 1.42