Stata testing

Load some data

sysuse auto

(1978 Automobile Data)

Do a t-test

. ttest mpg, by(foreign)  
  
Two-sample t test with equal variances  
------------------------------------------------------------------------------  
 Group | Obs Mean Std. Err. Std. Dev. [95% Conf. Interval]  
---------+--------------------------------------------------------------------  
Domestic | 52 19.82692 .657777 4.743297 18.50638 21.14747  
 Foreign | 22 24.77273 1.40951 6.611187 21.84149 27.70396  
---------+--------------------------------------------------------------------  
combined | 74 21.2973 .6725511 5.785503 19.9569 22.63769  
---------+--------------------------------------------------------------------  
 diff | -4.945804 1.362162 -7.661225 -2.230384  
------------------------------------------------------------------------------  
 diff = mean(Domestic) - mean(Foreign) t = -3.6308  
Ho: diff = 0 degrees of freedom = 72  
  
 Ha: diff < 0 Ha: diff != 0 Ha: diff > 0  
 Pr(T < t) = 0.0003 Pr(|T| > |t|) = 0.0005 Pr(T > t) = 0.9997  
  
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