```
                                        /__  ___  ___/  ___  ____/(R)
                                       /__  /    /    /  /   /
                                      ___/  /   /___/  /   /___/
                                       Statistics/Data Analysis
```

User: Brian Horlick-Cruz
Project: Rock Climbing & Equity: Arizona

1 . ttest diversity19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	.5838936	.0012931	.0489336	.581357	.5864302
Climbing	94	.5578012	.0058494	.0567117	.5461855	.5694169
combined	1,526	.5822863	.0012754	.0498239	.5797845	.5847881
diff		.0260924	.0052644		.0157662	.0364187

diff = mean(**No Climb**) − mean(**Climbing**)   t =   **4.9564**
Ho: diff = 0   degrees of freedom =   **1524**

     Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **1.0000**   Pr(|T| > |t|) = **0.0000**   Pr(T > t) = **0.0000**

2 . ttest wh_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	3547.927	47.95949	1814.872	3453.849	3642.006
Climbing	94	3870.436	229.4151	2224.262	3414.863	4326.009
combined	1,526	3567.794	47.1915	1843.491	3475.226	3660.361
diff		−322.5088	196.1736		−707.3076	62.28998

diff = mean(**No Climb**) − mean(**Climbing**)   t = **−1.6440**
Ho: diff = 0   degrees of freedom =   **1524**

     Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **0.0502**   Pr(|T| > |t|) = **0.1004**   Pr(T > t) = **0.9498**

3 . ttest black_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	215.808	7.417365	280.6863	201.2579	230.358
Climbing	94	89.62766	17.69638	171.5728	54.48615	124.7692
combined	1,526	208.0354	7.08702	276.8477	194.134	221.9367
diff		126.1803	29.30895		68.69016	183.6704

diff = mean(**No Climb**) − mean(**Climbing**)   t =   **4.3052**
Ho: diff = 0   degrees of freedom =   **1524**

     Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **1.0000**   Pr(|T| > |t|) = **0.0000**   Pr(T > t) = **0.0000**

4 . ttest hisp_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	4627.786	56.61923	2142.572	4516.721	4738.852
Climbing	94	4503.287	249.9603	2423.455	4006.916	4999.659
combined	1,526	4620.117	55.30041	2160.258	4511.644	4728.59
diff		124.4991	230.0637		-326.7759	575.7741

diff = mean(**No Climb**) - mean(**Climbing**)   t =   0.5412
Ho: diff = 0   degrees of freedom =   1524

   Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **0.7058**   Pr(|T| > |t|) = **0.5885**   Pr(T > t) = **0.2942**

5 . ttest ind_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	208.9092	17.69111	669.4632	174.2059	243.6125
Climbing	94	194.2128	66.92678	648.8792	61.30945	327.1161
combined	1,526	208.0039	17.10052	668.0155	174.4609	241.547
diff		14.69645	71.14833		-124.8626	154.2555

diff = mean(**No Climb**) - mean(**Climbing**)   t =   0.2066
Ho: diff = 0   degrees of freedom =   1524

   Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **0.5818**   Pr(|T| > |t|) = **0.8364**   Pr(T > t) = **0.4182**

6 . ttest asian_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	157.2144	5.893832	223.0331	145.6529	168.7759
Climbing	94	85.97872	11.72691	113.6966	62.6914	109.266
combined	1,526	152.8263	5.594385	218.5393	141.8528	163.7998
diff		71.23566	23.20466		25.71922	116.7521

diff = mean(**No Climb**) - mean(**Climbing**)   t =   3.0699
Ho: diff = 0   degrees of freedom =   1524

   Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **0.9989**   Pr(|T| > |t|) = **0.0022**   Pr(T > t) = **0.0011**

7 . ttest nh_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	9.835894	.8921587	33.76087	8.085815	11.58597
Climbing	94	3.968085	1.343571	13.0264	1.30002	6.63615
combined	1,526	9.474443	.8420002	32.89194	7.822842	11.12604
diff		5.867809	3.500045		-.9976061	12.73322

    diff = mean(**No Climb**) - mean(**Climbing**)   t =   1.6765
Ho: diff = 0   degrees of freedom =   1524

    Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **0.9531**   Pr(|T| > |t|) = **0.0938**   Pr(T > t) = **0.0469**

8 . ttest othere19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	312.8436	11.68966	442.3575	289.9129	335.7743
Climbing	94	130.5319	19.13602	185.5306	92.53157	168.5323
combined	1,526	301.6134	11.08883	433.1746	279.8624	323.3643
diff		182.3117	45.89981		92.27818	272.3451

    diff = mean(**No Climb**) - mean(**Climbing**)   t =   3.9719
Ho: diff = 0   degrees of freedom =   1524

    Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **1.0000**   Pr(|T| > |t|) = **0.0001**   Pr(T > t) = **0.0000**

9 . ttest two_pope19, by(climb_bi)

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
No Climb	1,432	175.2479	4.171094	157.8416	167.0658	183.43
Climbing	94	128.5319	13.7918	133.7165	101.1441	155.9197
combined	1,526	172.3702	4.014629	156.8277	164.4955	180.245
diff		46.71599	16.66056		14.03594	79.39604

    diff = mean(**No Climb**) - mean(**Climbing**)   t =   2.8040
Ho: diff = 0   degrees of freedom =   1524

    Ha: diff < 0   Ha: diff != 0   Ha: diff > 0
 Pr(T < t) = **0.9974**   Pr(|T| > |t|) = **0.0051**   Pr(T > t) = **0.0026**

10 .