

Statistics

```
> cor(africa[,-1:-2])
```

	gdp_2017	pop_2017	area	rail	road
gdp_2017	1.0000000	0.6660203	0.3838423	NA	0.8159500
pop_2017	0.6660203	1.0000000	0.4618159	NA	0.6359208
area	0.3838423	0.4618159	1.0000000	NA	0.4943773
rail	NA	NA	NA	1	NA
road	0.8159500	0.6359208	0.4943773	NA	1.0000000

```
> cor(africa[,-1:-2], use="pairwise")
```

	gdp_2017	pop_2017	area	rail	road
gdp_2017	1.0000000	0.6660203	0.3838423	0.7676654	0.8159500
pop_2017	0.6660203	1.0000000	0.4618159	0.2834323	0.6359208
area	0.3838423	0.4618159	1.0000000	0.4003553	0.4943773
rail	0.7676654	0.2834323	0.4003553	1.0000000	0.8474765
road	0.8159500	0.6359208	0.4943773	0.8474765	1.0000000

T Test

```
t.test(safi$months_lack_food_count[safi$village == "Chirodzo"],  
       safi$months_lack_food_count[safi$village == "Ruaca"])
```

Welch Two Sample t-test

```
data: safi$months_lack_food_count[safi$village == "Chirodzo"] and  
safi$months_lack_food_count[safi$village == "Ruaca"]  
t = 0.53747, df = 74.124, p-value = 0.5926  
alternative hypothesis: true difference in means is not equal to 0  
95 percent confidence interval:  
 -0.5539014  0.9631113  
sample estimates:  
mean of x mean of y  
 2.102564  1.897959
```