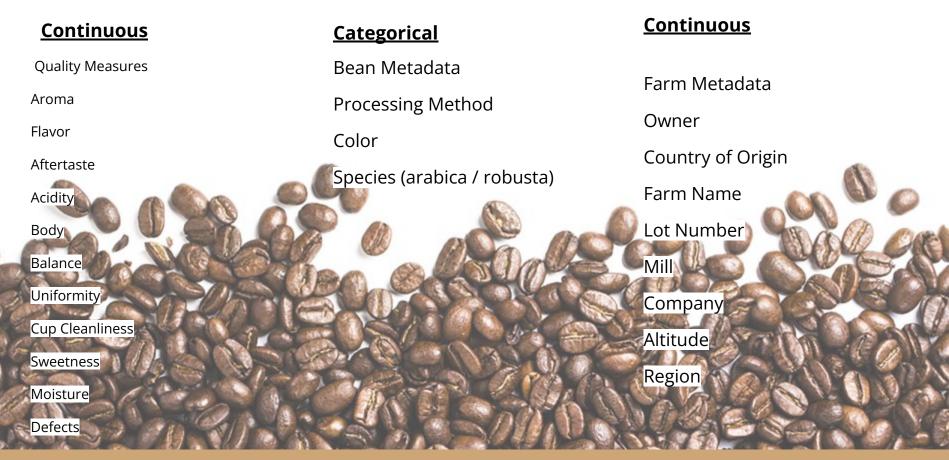
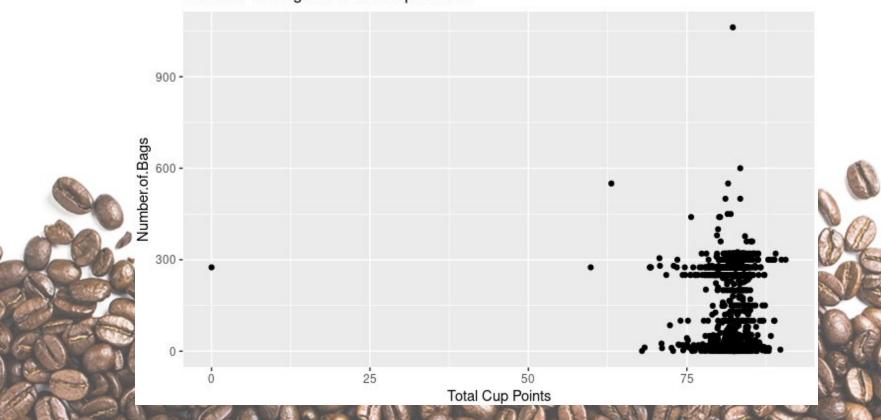


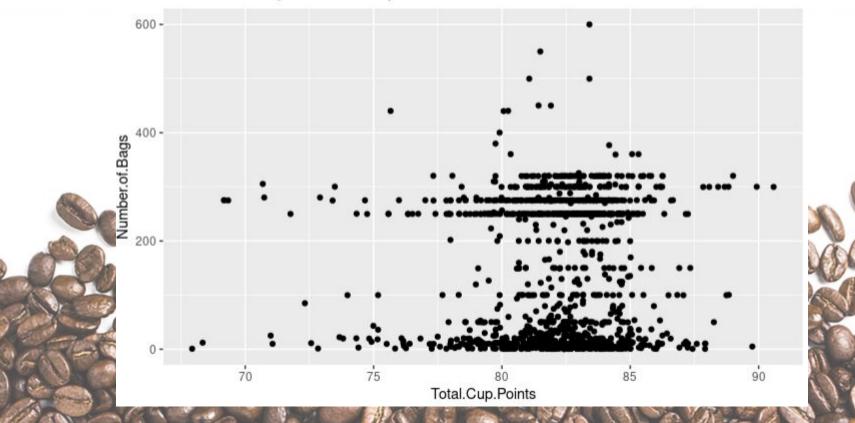
# Different Variables



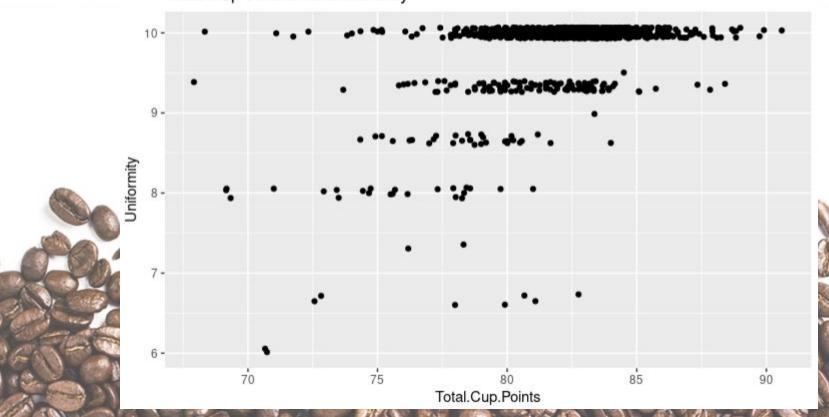
#### Number of Bags vs Total Cup Points



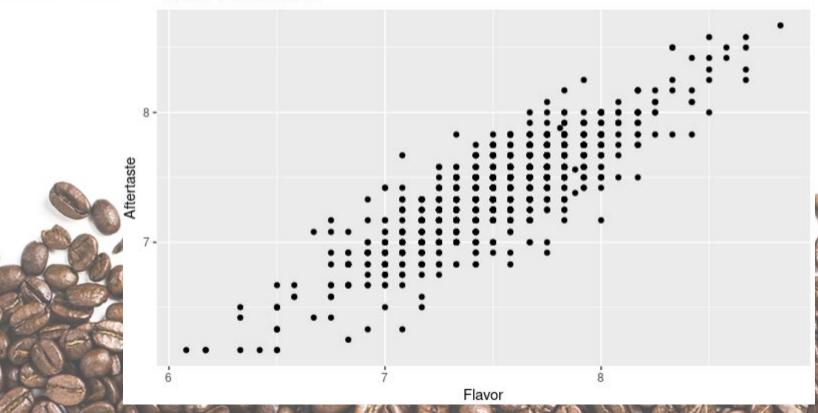
#### Number of Bags vs Total Cup Points



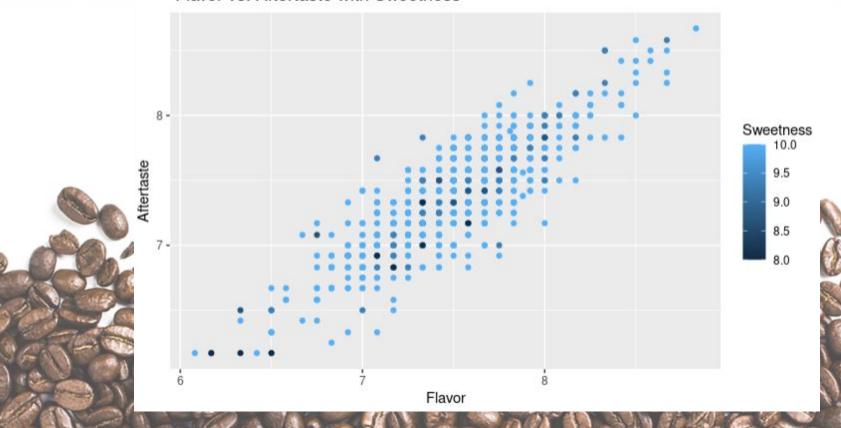
#### Total Cup Points vs. Uniformity



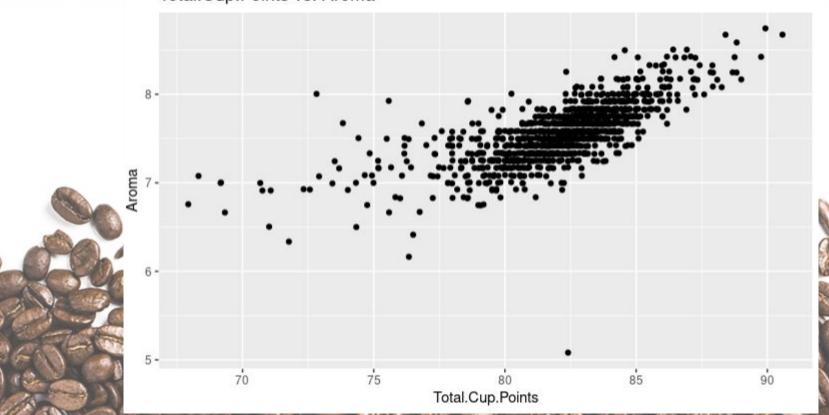




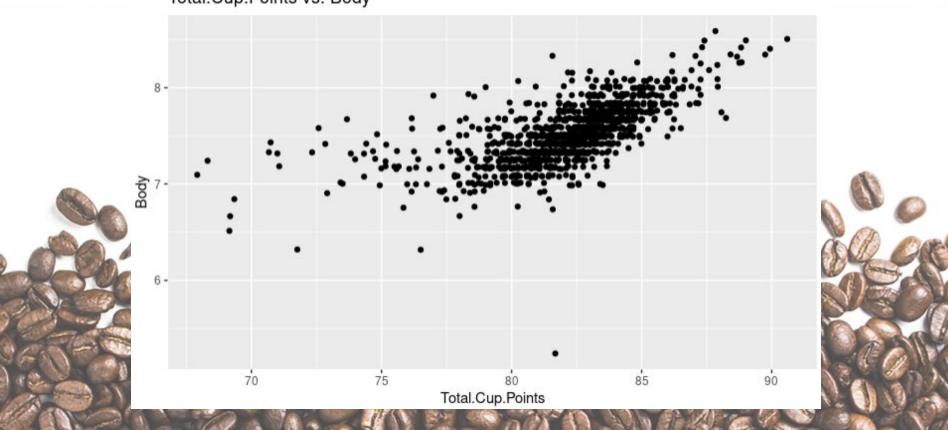
Flavor vs. Aftertaste with Sweetness

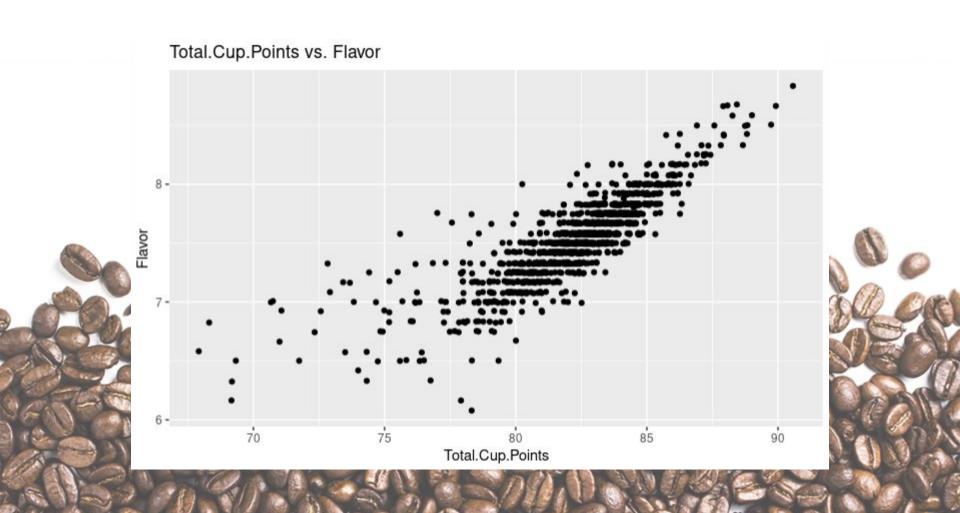


Total.Cup.Points vs. Aroma



Total.Cup.Points vs. Body





### **Multiple Regression**

```
Aroma Body Flavor Total.Cup.Points
Aroma 1.0000000 0.6956131 0.8135973 0.7966370
Body 0.6956131 1.0000000 0.7612108 0.7763467
Flavor 0.8135973 0.7612108 1.0000000 0.8776274
Total.Cup.Points 0.7966370 0.7763467 0.8776274 1.0000000
```

```
Call:
lm(formula = Total.Cup.Points ~ Aroma + Body + Flavor, data = coffee)
Standardized Coefficients::
(Intercept) Aroma Body Flavor
NA 0.1941813 0.2222581 0.5504568
```

```
Call:
lm(formula = Total.Cup.Points ~ Aroma + Body + Flavor, data = coffee)
Residuals:
    Min
              10 Median
                                       Max
-17.6591 -0.3437
                  0.2386
                           0.7233
                                    4.3959
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 15.7495
                       0.9444 16.676
                                        <2e-16 ***
             1.8034
                       0.1968
                               9.164
                                      <2e-16 ***
Aroma
Body
             2.1740
                       0.1858 11.700
                                      <2e-16 ***
Flavor
             4.8393
                       0.2064 23.451 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 1.532 on 1303 degrees of freedom
 (12 observations deleted due to missingness)
Multiple R-squared: 0.8103, Adjusted R-squared: 0.8099
F-statistic: 1856 on 3 and 1303 DF, p-value: < 2.2e-16
```

```
Total.Cup.Points = 15.75 + (1.80 * Aroma) + (2.17 * Body) + (4.84 * Flavor)
```

```
| ```{r}

Total.Cup.Points <- 15.75 + (1.80 * 9.2) + (2.17 * 8.7) + (4.84 * 9.9)

Total.Cup.Points
```

[1] 99.105

## unique(coffee\$Country.of.Origin)

"Guatemala"

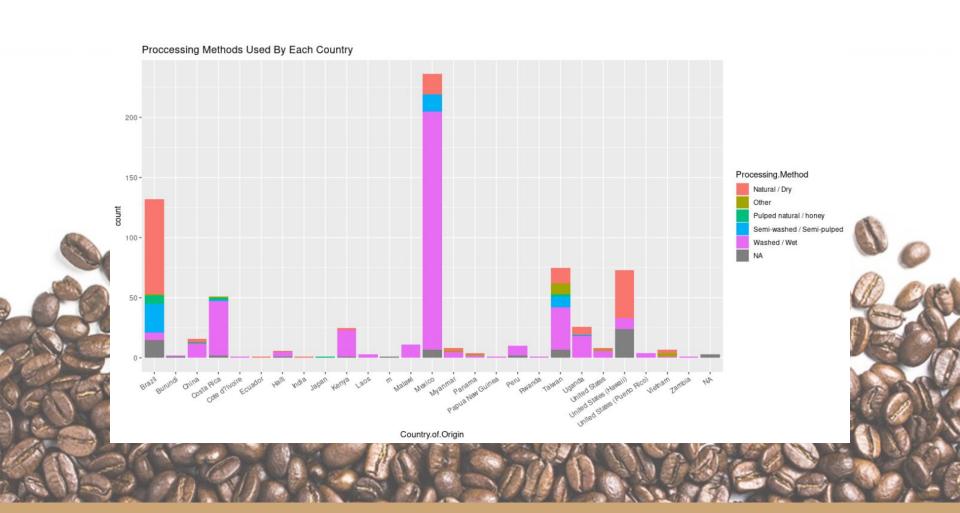
[1] "Ethiopia"

```
"Brazil"
                                                  "Peru"
 [5] "United States"
                                                  "United States (Hawaii)"
 [7] "Indonesia"
                                                  "China"
 [9] "Costa Rica"
                                                  "Mexico"
[11] "Uganda"
                                                  "Honduras"
[13] "Taiwan"
                                                  "Nicaragua"
                                                  "Kenya"
[15] "Tanzania, United Republic Of"
                                                  "Colombia"
[17] "Thailand"
[19] "Panama"
                                                  "Papua New Guinea"
[21] "El Salvador"
                                                  "Japan"
                                                  "United States (Puerto Rico)"
[23] "Ecuador"
[25] "Haiti"
                                                  "Burundi"
[27] "Vietnam"
                                                  "Philippines"
                                                  "Malawi"
[29] "Rwanda"
[31] "Laos"
                                                  "Zambia"
[33] "Myanmar"
                                                  "7.42"
[35] "Natural / Dry"
                                                  "0878a7d4b9d35ddbf0fe2ce69a2062cceb45a660"
[37] "Mauritius"
                                                  NA
                                                  ""
[39] "7.25"
[41] "Cote d?Ivoire"
                                                  "India"
[43] "oriente"
```

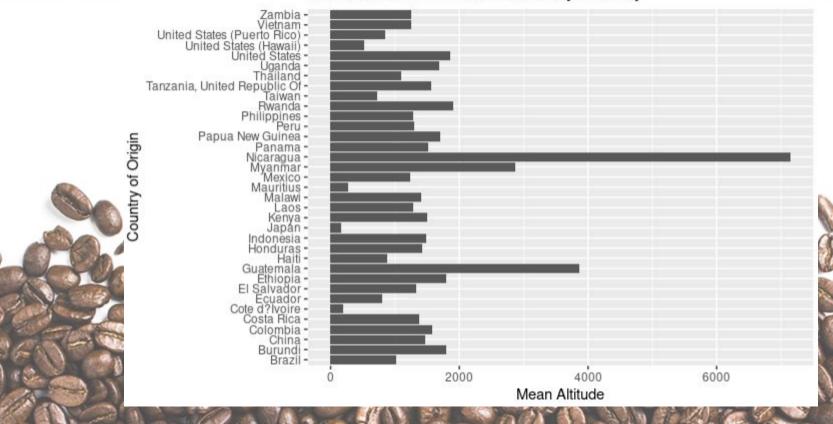


# unique(coffee\$Altitude)

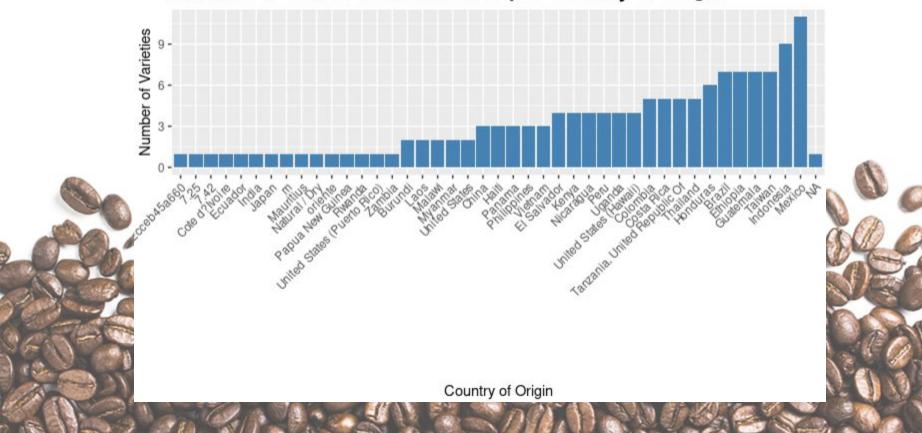
										- 198	
	[1]	2075.0000	1700.0000	2000.0000	NA	1635.0000	1822.5000	1905.0000	1872.0000	1943.0000	
	[10]	609.6000	2080.0000	1500.0000	1450.0000	1850.0000	2019.0000	1300.0000	1320.0000	2112.0000	
	[19]	1250.0000	1950.0000	1400.0000	1200.0000	1775.0000	1800.0000	1941.0000	12.0000	1000.0000	
	[28]	1754.0000	1860.0000	1650.0000	1750.0000	426.7200	1600.0000	1900.0000	1524.0000	1417.3200	
	[37]	1350.0000	1680.0000	1731.2640	1770.0000	1550.0000	1325.0000	2560.0000	2136.0000	1.0000	
	[46]	1580.0000	1100.0000	1325.8800	800.0000	1620.0000	350.0000	925.0000	170.0000	1150.0000	
	[55]	1310.6400	1219.2000	1575.0000	900.0000	442.0000	1275.0000	1050.0000	1493.5200	1386.8400	
	[64]	1099.4136	1170.0000	1116.7872	1565.0000	3280.0000	1606.5000	1530.0000	250.5000	1038.5000	
Н	[73]	968.0000	1480.0000	1706.8800	1260.0000	890.0000	934.0000	950.0000	2527.0000	525.0000	
	[82]	1676.5000	1218.0000	1499.9208	750.0000	853.4400	700.0000	1625.0000	1356.6648	1128.3696	
	[91]	1799.0000	940.0000	1402.0800	439.0000	1330.0000	1813.0000	1227.0000	1280.1600	1880.0000	
d	[100]	2100.0000	1261.0000	1483.0000	175.0000	1901.0000	168.0000	1653.0000	532.0000	1089.0000	
П	[109]	1380.0000	905.0000	894.0000	872.0000	1473.0000	1645.0000	1371.6000	775.0000	1059.0000	
П	[118]	11000.0000	1248.0000	1040.0000	157.8864	650.0000	1442.0000	165.0000	1296.0000	1240.0000	
П	[127]	3850.0000	200.0000	1317.0000	975.0000	1679.0000	2285.0000	1560.0000	1396.0000	982.0000	
П	[136]	1268.0000	1676.4000	600.0000	1752.6000	441.0000	1180.0000	1338.0000	533.0000	1390.8024	
П	[145]	1144.0000	13.0000	944.0000	2500.0000	1020.0000	1877.0000	981.0000	690.0000	973.0000	
1	[154]	4001.0000	1425.0000	1556.0000	774.0000	150.0000	190164.0000	850.0000	1600.2000	180.0000	
П	[163]	1599.0000	825.0000	125.0000	110.0000	1422.0000	763.0000	1130.0000	680.0000	995.0000	
П	[172]	695.0000	1456.0000	1642.0000	758.0000	1525.0000	1066.8000	550.0000	688.0000	300.0000	
ı	[181]	1186.0000	1210.0000	100.0000	3825.0000	110000.0000	185.0000	1383.7920	50.0000	280.0000	
	[190]	3800.0000	1859.2800	914.4000	4287.0000	808.0000	1187.5000	250.0000	3845.0000	1022.0000	
П	[199]	1264.0000	3500.0000	1280.0000	1140.0000						



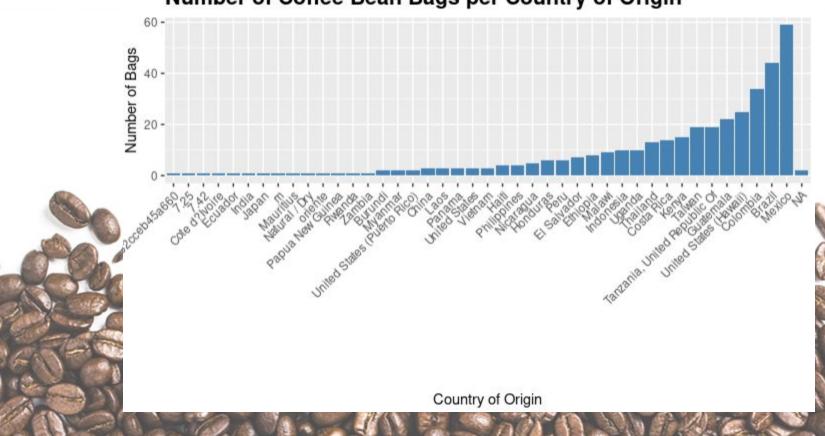
#### Mean Altitude of Coffee Beans by Country



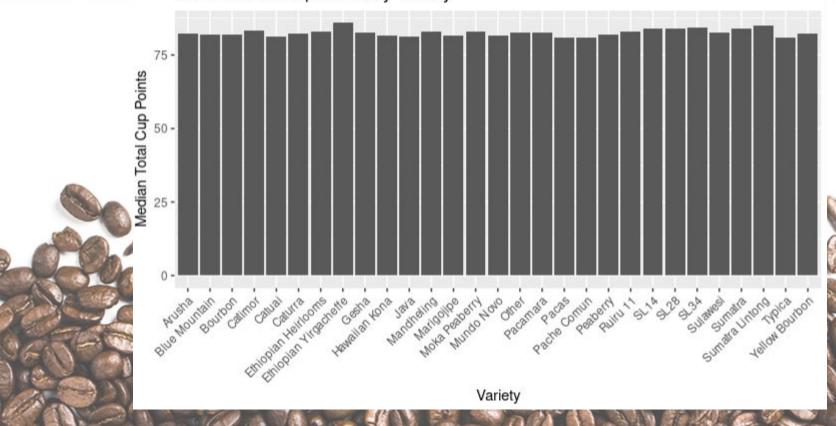
### Number of Coffee Bean Varieties per Country of Origin



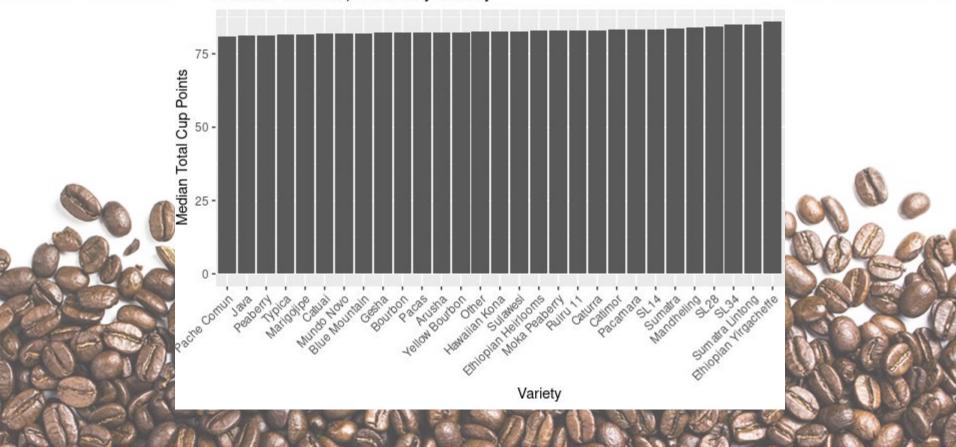
### Number of Coffee Bean Bags per Country of Origin



#### Median Total Cup Points by Variety



#### Median Total Cup Points by Variety



# Sources

https://github.com/jldbc/coffee-quality-database

