

December 5th, 2022





Coffee /'kôfē,'käfē/

A drink produced from the roasted and ground seeds of the coffea plant

40%

Estimated percentage of the world's population that drinks coffee every day

2,000,000,000

The estimated number of coffee cups drank per day

## **Dataset**



### Coffee Harvested from 2008-2018

	owner	country_of_origin	processing_method	flavor	aftertaste	acidity	body	balance	uniformity	clean_cup	sweetness	total_cup_points	mean_altitude_feet
0	metad plc	Ethiopia	Washed / Wet	8.83	8.67	8.75	8.50	8.42	10.00	10.00	10.00	90.58	6807.743000
1	metad plc	Ethiopia	Washed / Wet	8.67	8.50	8.58	8.42	8.42	10.00	10.00	10.00	89.92	6807.743000
2	yidnekachew dabessa	Ethiopia	Natural / Dry	8.58	8.42	8.42	8.50	8.25	10.00	10.00	10.00	89.00	6561.680000
3	metad plc	Ethiopia	Washed / Wet	8.50	8.25	8.50	8.42	8.33	10.00	10.00	10.00	88.83	6807.743000
4	ji-ae ahn	Brazil	Natural / Dry	8.42	8.42	8.50	8.25	8.33	10.00	10.00	10.00	88.83	2407.042947
1236	cadexsa	Honduras	Washed / Wet	6.33	6.17	6.50	6.67	6.17	8.00	8.00	8.00	69.17	4757.218000
1237	juan carlos garcia lopez	Mexico	Washed / Wet	6.83	6.25	7.42	7.25	6.75	10.00	0.00	10.00	68.33	2952.756000
1238	myriam kaplan-pasternak	Haiti	Natural / Dry	6.58	6.42	6.67	7.08	6.67	9.33	6.00	6.00	67.92	1148.294000
1239	exportadora atlantic, s.a.	Nicaragua	Other	6.58	6.33	6.25	6.42	6.08	6.00	6.00	6.00	63.08	3608.924000
1240	juan luis alvarado romero	Guatemala	Washed / Wet	6.67	6.67	7.67	7.33	6.67	8.00	1.33	1.33	59.83	1417.320000

## **Variables**

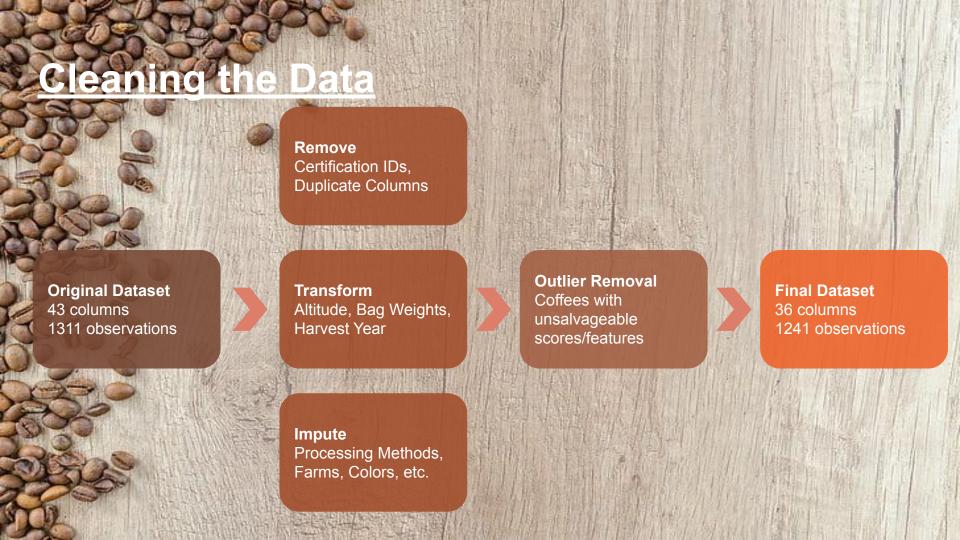
#### **Coffee Grade Variables**

Variable	Aroma	Flavor	After- taste	Acidity	Balance	Body	Uniformity	Clean Cup	Cup Points	Sweetness

**Desc.** Flavor-related properties about the coffee, graded for each review

#### Farming / Metadata Variables

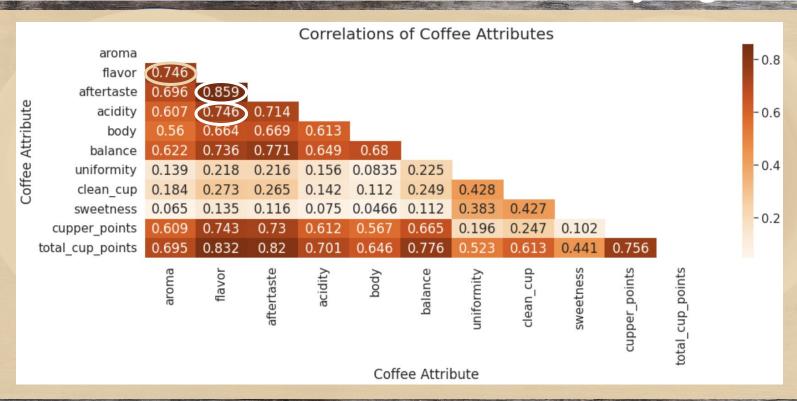
Variable	Farm name	Processing Method	Bag Weight	Grading Date	Country	Mean Altitude
Desc.	Produc	nent				



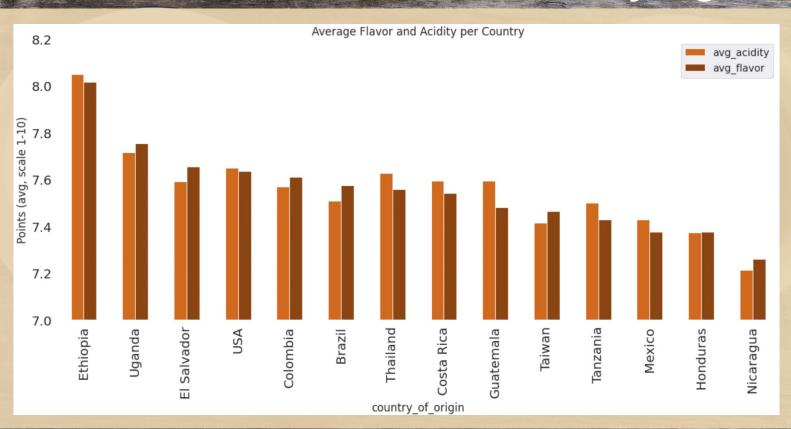
# Questions

- Are there **correlations** between how reviewers perceive coffee's various properties and how they score the coffee overall?
- Does the **geographic location** (region, country) in which the coffee is grown and harvested affect the perceived quality of the coffee?
- How does the **farm's owner and processing methods** affect the coffee's perceived flavor?

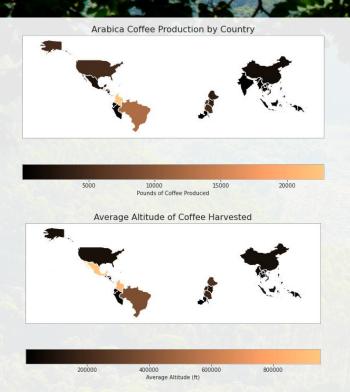
## Coffee Characteristic Correlation: Key Figures

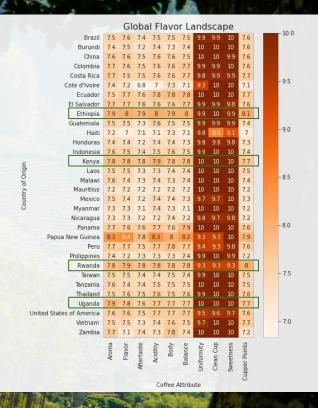


## Coffee Characteristic Correlation: Key Figures

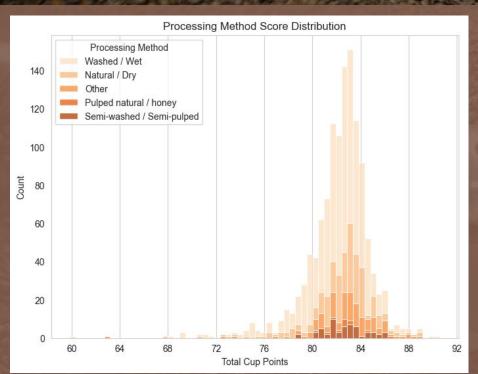


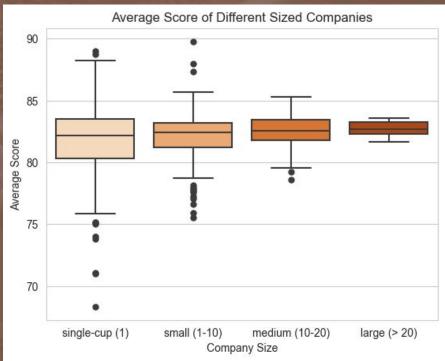
## Geographical Features Key Plots/Figures





## Processing Methods, Farm Conditions: Key Figures



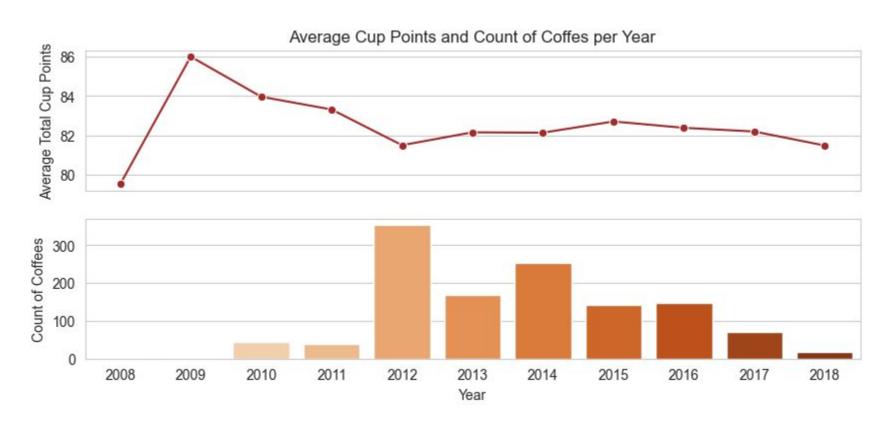


## **Conclusions**

- 1. Several of the different coffee attributes reviewed likely overlapped with each other (flavor & aroma, as well as flavor & aftertaste)
- Ethiopia has the most flavorful (and highly acidic) coffee, according to reviewers
- While the Americas produce the most coffee, Africa tends to produce more uniquely flavorful coffee
- 4. There was no best processing method, they all centered around a similar score
- 5. **Number of coffee** cups a **company** had graded was not indicative of the average score they received



### Appendix Graph



## **Appendix Graph**

	aroma	flavor	aftertaste	acidity	body	balance	uniformity	clean_cup	sweetness	cupper_points
processing_method										
Natural / Dry	7.59	7.58	7.46	7.55	7.59	7.59	9.79	9.80	9.82	7.58
Other	7.61	7.61	7.49	7.58	7.55	7.58	9.88	9.88	9.92	7.66
Pulped natural / honey	7.54	7.51	7.53	7.55	7.62	7.52	10.00	10.00	10.00	7.54
Semi-washed / Semi-pulped	7.60	7.59	7.46	7.54	7.55	7.58	9.87	9.95	9.95	7.54
Washed / Wet	7.55	7.48	7.36	7.53	7.49	7.48	9.85	9.83	9.93	7.44

	aroma	flavor	aftertaste	acidity	body	balance	uniformity	clean_cup	sweetness	cupper_points
processing_method										
Natural / Dry	8.58	8.67	8.50	8.50	8.50	8.58	10.00	10.00	10.00	8.67
Other	8.67	8.67	8.58	8.42	8.58	8.75	10.00	10.00	10.00	10.00
Pulped natural / honey	8.00	8.00	8.00	8.25	8.00	8.17	10.00	10.00	10.00	8.17
Semi-washed / Semi-pulped	8.50	8.17	8.00	8.08	8.33	8.25	10.00	10.00	10.00	8.42
Washed / Wet	8.75	8.83	8.67	8.75	8.50	8.58	10.00	10.00	10.00	8.75