

Climate's brew

Have you had your daily cup of coffee today?

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Contents



1 - Coffee, Datasets, and Questions

Have you ever think about?

Coffee origin?

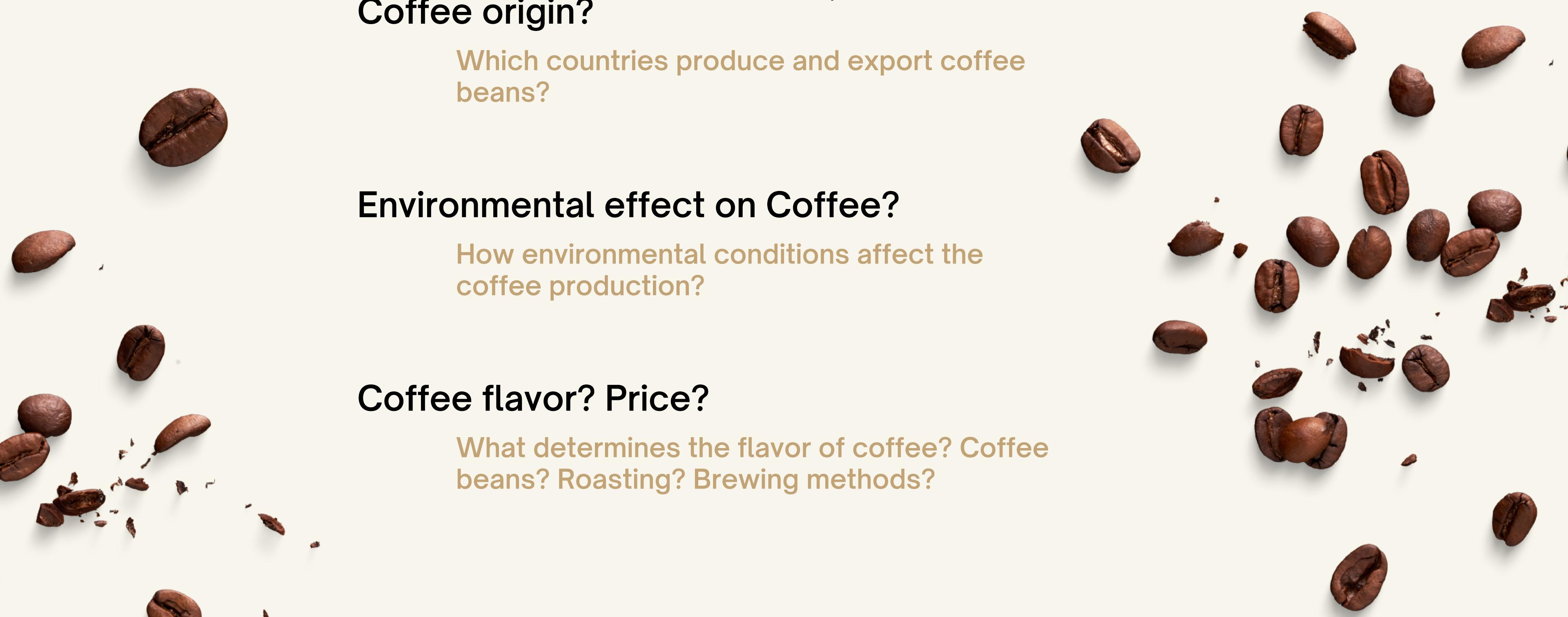
Which countries produce and export coffee beans?

Environmental effect on Coffee?

How environmental conditions affect the coffee production?

Coffee flavor? Price?

What determines the flavor of coffee? Coffee beans? Roasting? Brewing methods?



Dataset

From Kaggle

Daily Temperature of Major cities

Information about temperature in major cities around the world.



Coffee dataset

Coffee economic indicators from the International Coffee Organization (ICO) dataset.



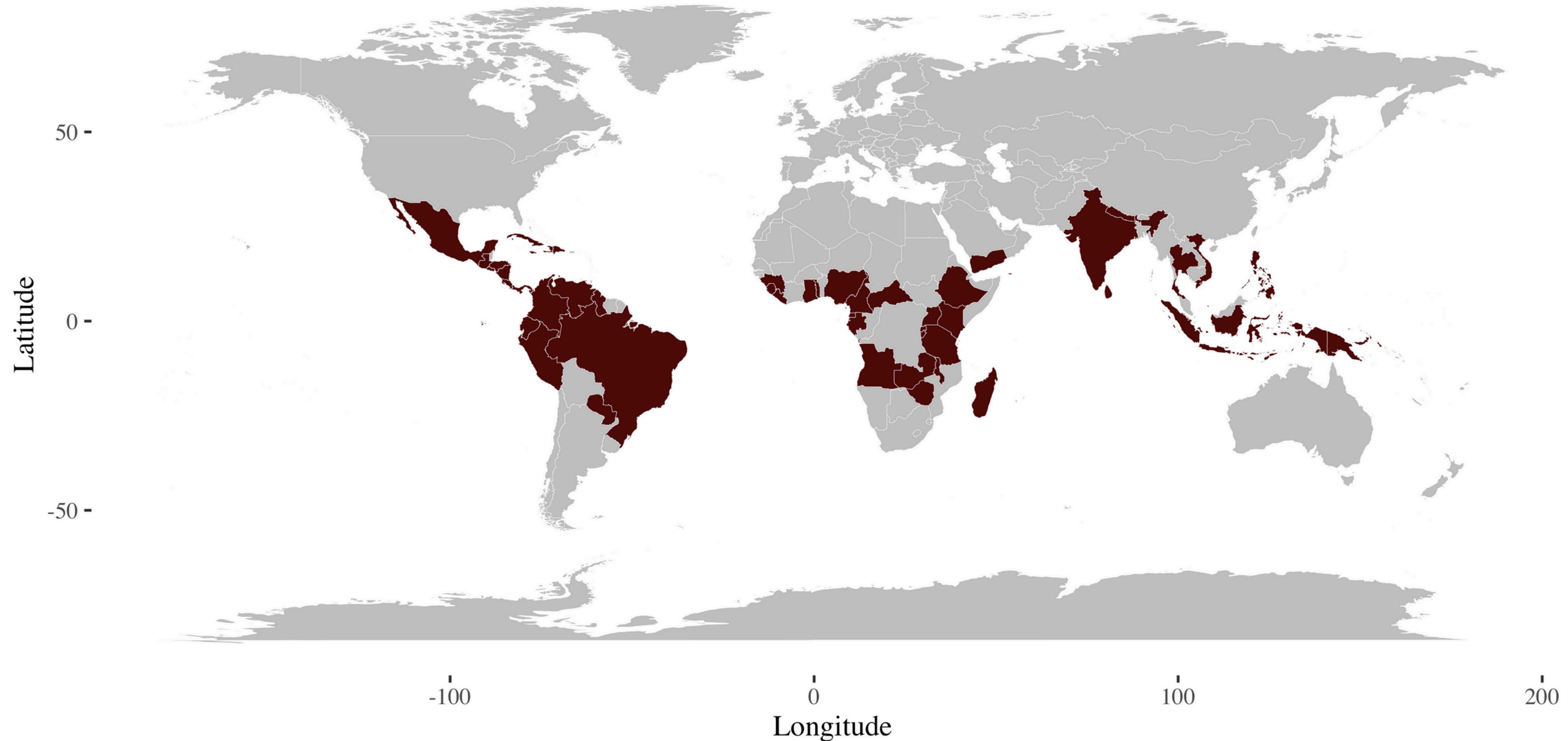
Coffee review

Additional information regarding the taste, origin, and price of coffee.

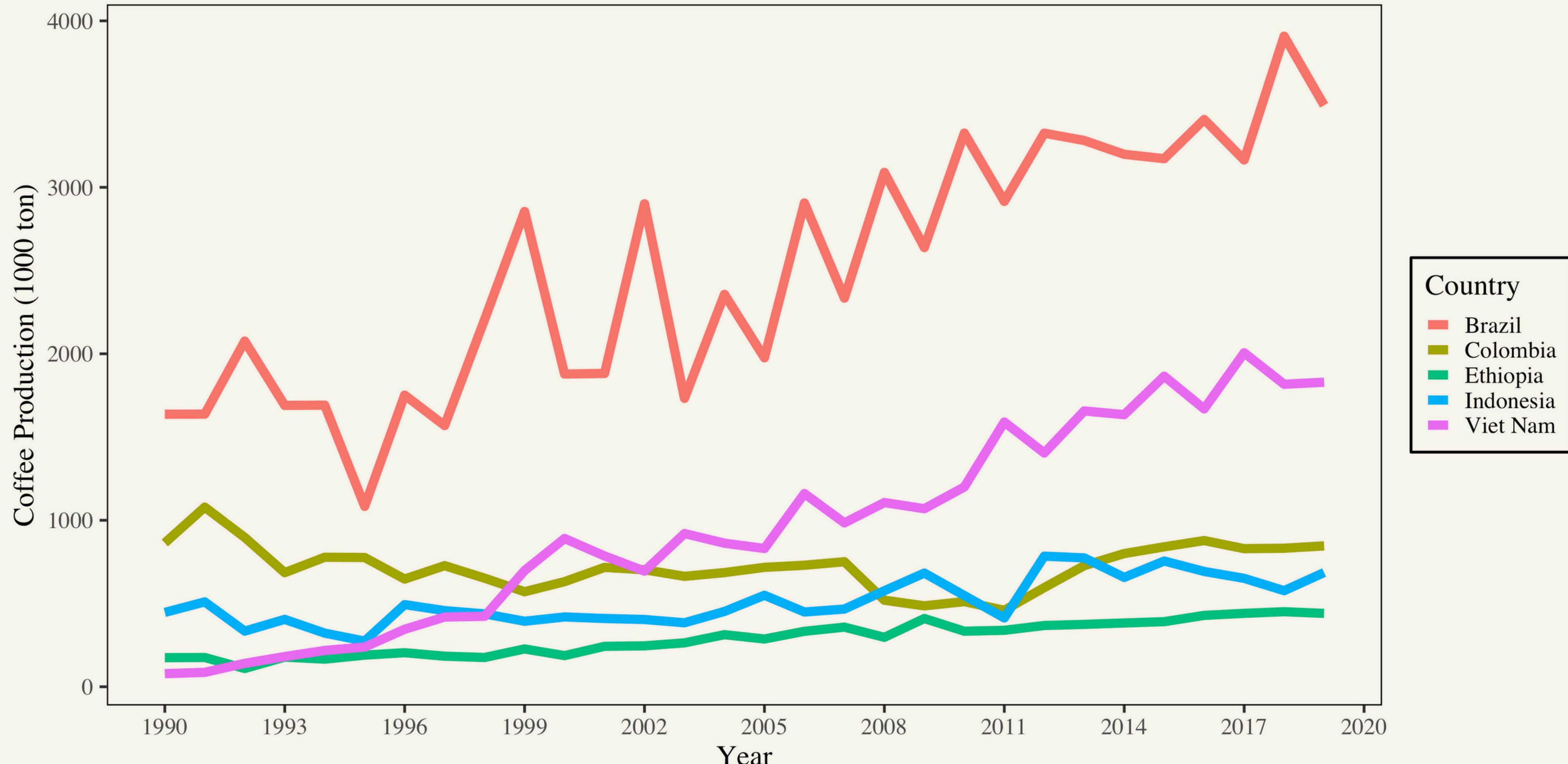


2 - Finding and Analysis

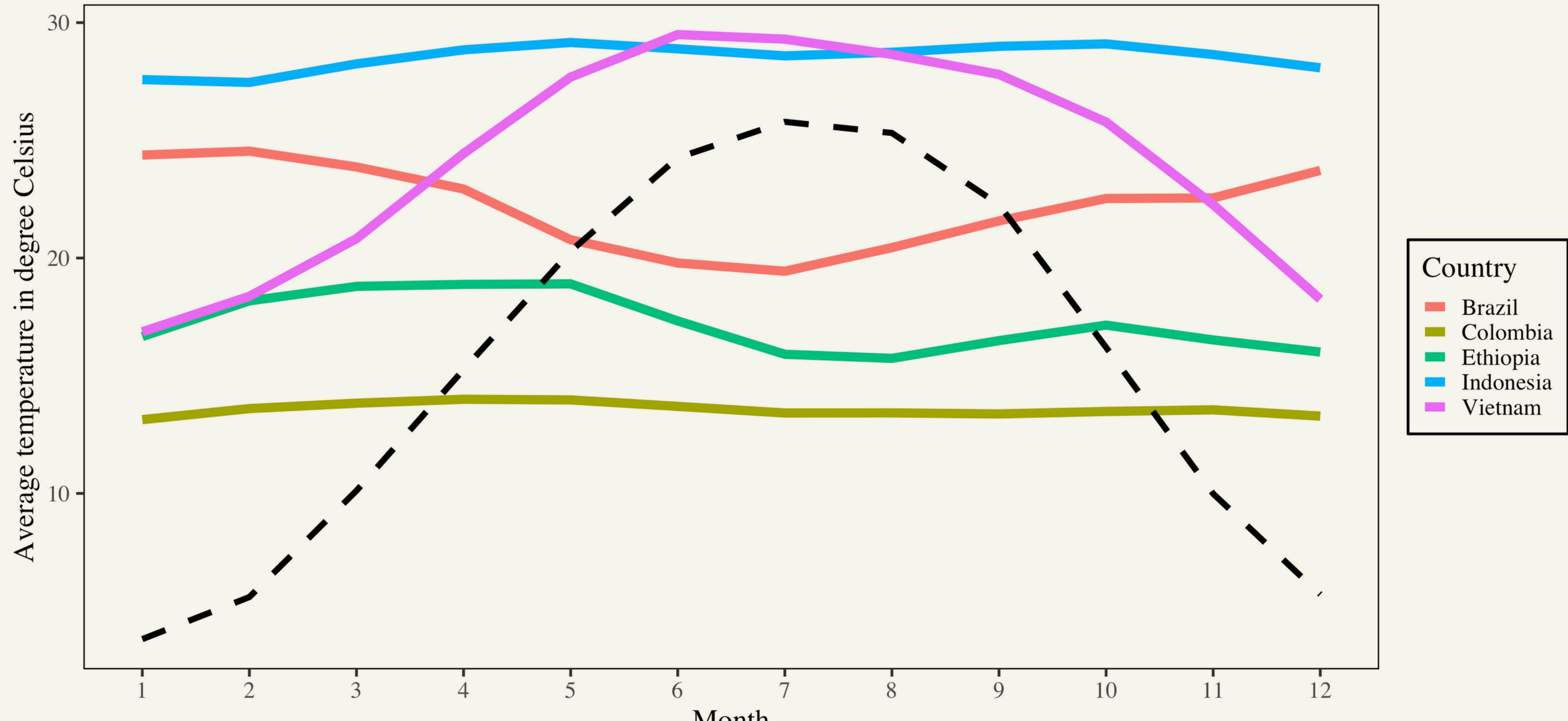
Coffee producing countries



Top 5 Country with highest Coffee production



Coffee producing countries average Temperature



The dashed line is Columbus temperature

Linear Model

Price ~ Region + Aged + Flavor



	Estimate	Std. Error	t value	Pr(> t)
Intercept	-159.1	17.33	-9.178	0
Region Asia Pacific	-2.312	2.922	-0.7912	0.4289
Region Caribbean	5.964	8.374	0.7123	0.4764
Region Central America	8.539	1.59	5.37	0
Region Hawaii	10.78	2.644	4.078	0
Region South America	3.864	1.753	2.205	0.028
Aged	52.16	9.277	5.622	0
Flavor	18.52	1.92	9.644	0

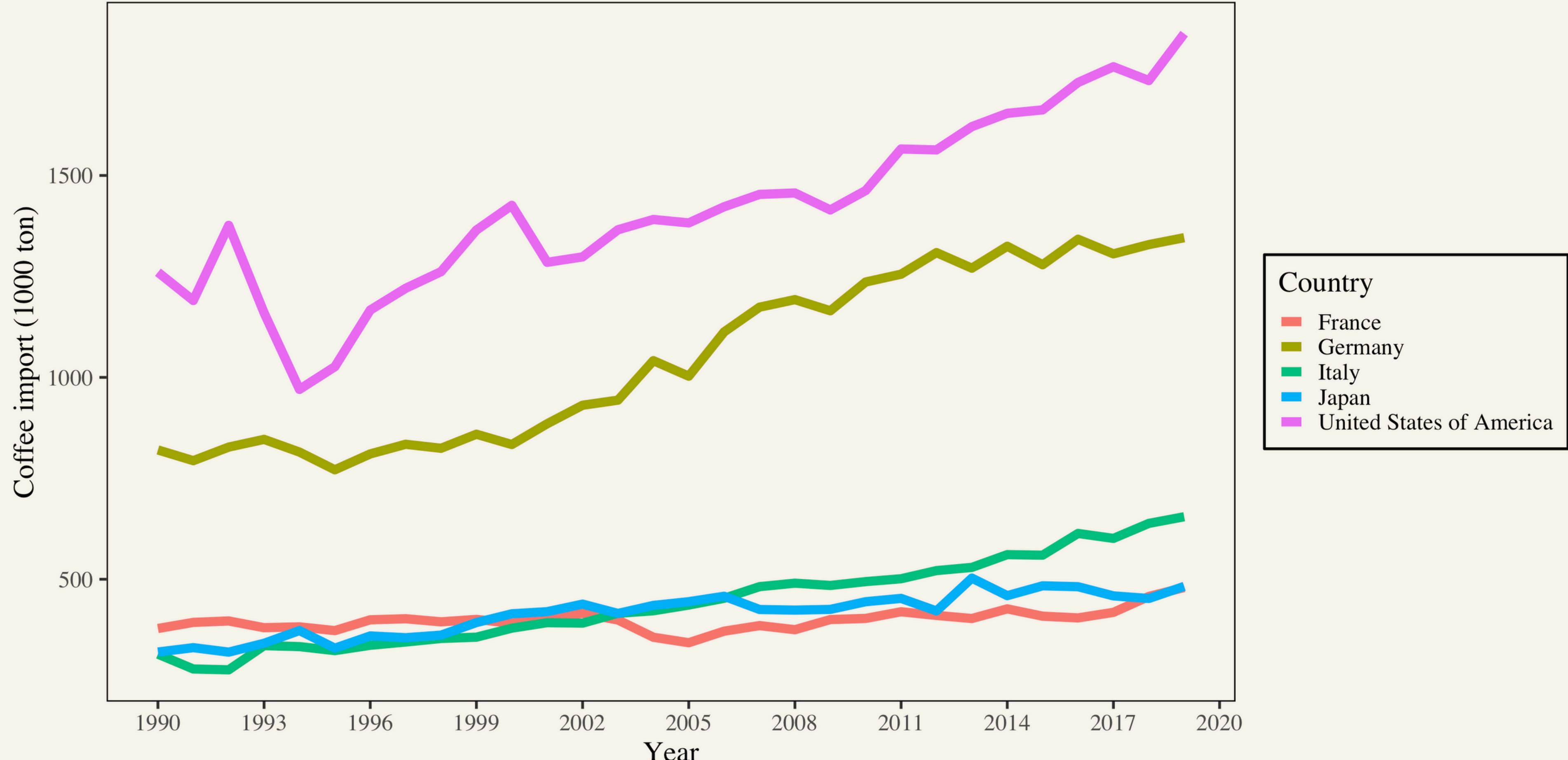
Aging and Price

Two sample t-test

t	DF	P-value =	Mean of Type_Aged = 0	Mean of Type_Aged = 1	95% conf. int.
-5.6531	2204	1.78e-08	10.16912	60.36691	-67.61119 -32.78438



Top 5 Coffee importing countries



3 - Temporary Conclusion and next steps

complex specialty
kenya trees
bright juicy
nib
high small red method
structure visit
notes finish
removed wet dried roasters
aromatic honey region drying
ethiopia tart dark
resonant skin natural email
almond full
quality richly
sweetly milk deep
taiwan balanced cedar
flavor grown roaster
balanced cedar
coffee cup roast
toned fruit acidity
processed mouthfeel crisp
chocolate savory rich flowers
roasting like blend gently
based syrupy chocolaty
crisply

undertones smooth
zest around beans one
varieties variety spice
floral whole espresso
washed arabica
farmers
cocoa distinctive fresh
produced consolidates
black

Temporary Conclusion

Coffee origin

Mostly Brazil, followed by Vietnam, Columbia, Indonesia, Ethiopia,... Most of them are tropical countries.

High temperature

Coffee is grown in areas with high temperature.

Price = Origin + Aging + Flavor

Origin, Aging, and Flavor heavily affect the price of coffee.



Good Taste



A close-up photograph of a person's hand holding a white ceramic cup. The cup is filled with several whole, dark brown coffee beans. The background is a deep, out-of-focus brown, creating a warm, rustic feel. The lighting highlights the texture of the beans and the rim of the cup.

THANKS

Work Cited

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