

All About Coffee:

Exploring Digital Data on Coffee Using Computational Methods

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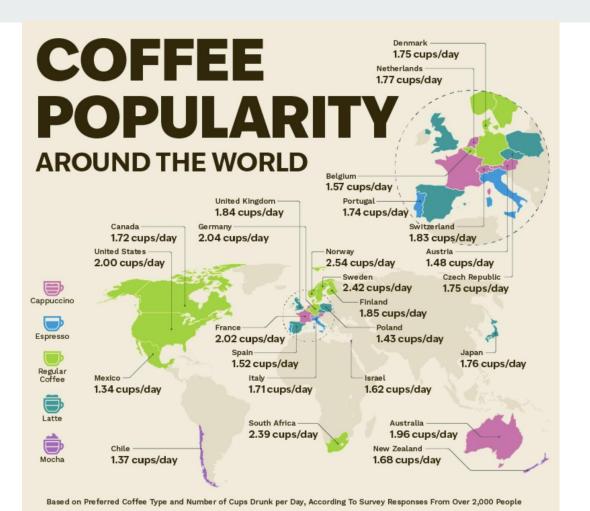
Research Questions

- How are people discussing coffee on different social media platforms?
- What other information can we gather about the US coffee industry?

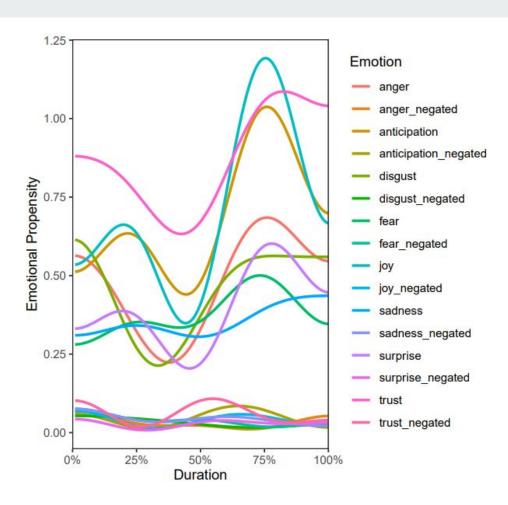
Overview & Data

- Reddit Discussion
- Twitter Discussion
- Coffee Industry

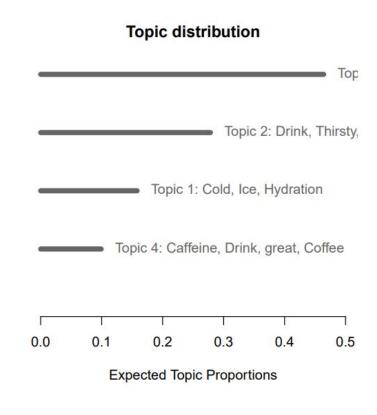


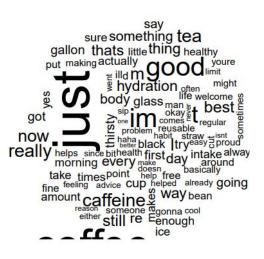


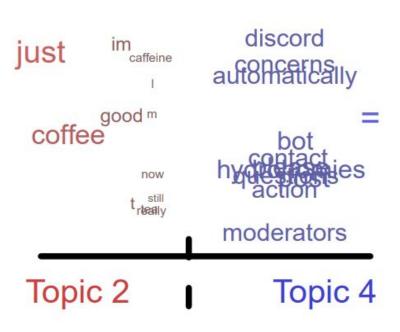
r/HydroHomies - Coffee



r/HydroHomies - Coffee



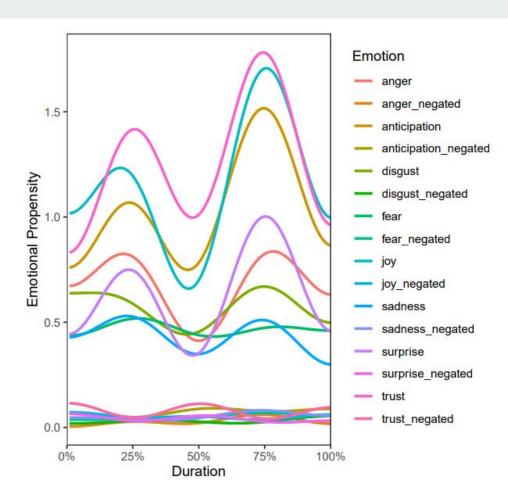




automatically
automatically
hydrohomies

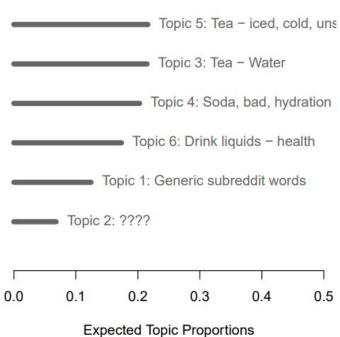
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r/HydroHomies - Tea

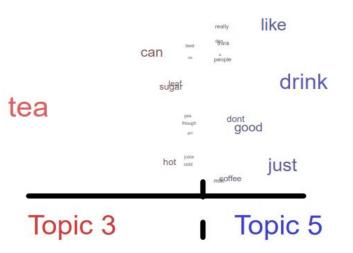


r/HydroHomies - Tea





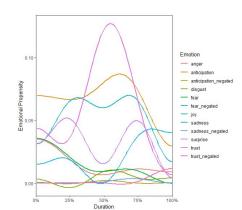
leaf call shit caffeinated isnt brewed green doesnt favorite favorite favorite sometimes warm thanks ear well thanks ear well thanks ear well thanks ear well end amazing though though thought cool brew iron velemon sometimes grey awesome honey sweet summer grey awesome honey big honey belps small bean clear juice putfind plain loose small bean clear juice putfind plain loose standing than store add personally enjoy depends chamomile best basically tastes the benefits straight use flavor morning flavored herbal okay frecommend appreciate mean acceptable for hydration flavored hydration flavored hydration for specially hydration





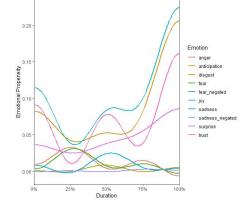
Twitter

#coffeebreak tweets

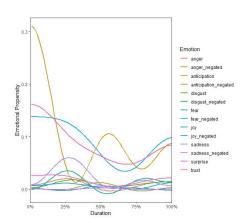


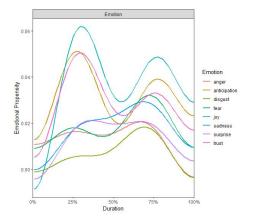


Individuals



#teatime tweets





Twitter

#coffeebreak tweets

coffeebreak

pennys todaytrophyhunting latte

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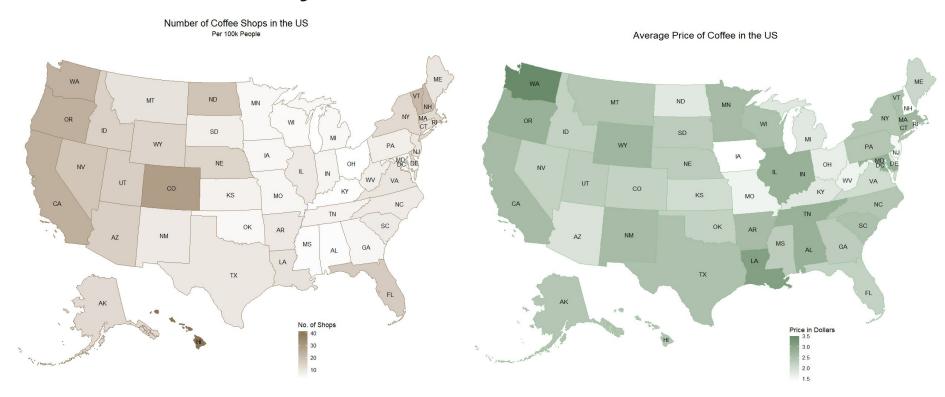
#teatime tweets





Businesses

Individuals



Source: https://vividmaps.com/us-coffee-index/

Mean Hours of Full-time Workers					
		Model 1	Model 2	Model 3	Model 4
Shops per		-0.13		-0.12	-0.36
		(0.10)	•	(0.11)	(0.60)
Average			-2.07	-1.75	-2.94
		•	(1.71)	(1.73)	(3.32)
Shops * Ave	3				0.10
				•	(0.25)
Intercept		45.29 ***	48.56 ***	49.14 ***	51.91 ***
	•	(1.41)	(4.03)	(4.05)	(7.76)
N		47	47	47	47
R2		0.04	0.03	0.06	0.06

^{***} p < 0.001; ** p < 0.01; * p < 0.05.

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Mean Hours of Part-Time Workers					
	Model 1	Model 2	Model 3	Model 4	
Shops per	0.02		0.02	-0.03	
	(0.05)		(0.05)	(0.27)	
Average		0.31	0.27	0.04	
		(0.75)	(0.77)	(1.53)	
Shops * Avg				0.02	
				(0.11)	
Intercept	18.31 ***	17.85 ***	17.73 ***	18.24 ***	
	(0.64)	(1.76)	(1.80)	(3.56)	
N	50	50	50	50	
R2	0.00	0.00	0.01	0.01	

Mean Hours Worked Per Week of Full-Time Coffee Workers





	Model 1	Model 2	Model 3	Model 4
Shops per	 82.41		95.46	-2592.02
	(404.38)	•	(414.58)	(2315.91)
Average		-1027.49	-1289.28	-14260.84
	•	(6656.57)	(6823.13)	(12927.77)
Shops * Avg				1127.24
			•	(955.84)
Intercept	23649.77	26963.53	26479.99	56754.79
	(5519.18)	(15677.33)	(15983.49)	(30203.37)
N	 47	47	47	47
R2	0.00	0.00	0.00	0.03

Mean Income of Part-Time Workers					
	Model 1	Model 2	Model 3	Model 4	
Shops per	46.69		33.60	61.00	
	(73.95)	1	(74.29)	(421.52)	
Average		1582.76	1504.62	1641.83	
		(1192.40)	(1214.76)	(2412.46)	
Shops * Avg				-11.56	
			7	(174.98)	
Intercept	7447.06	4368.96	4152.57	3833.01	
	(1030.69)	(2786.65)	(2850.49)	(5629.41)	
N	50	50	50	50	
R2	0.01	0.04	0.04	0.04	





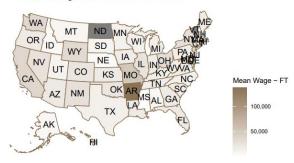
	Mean Wag	ge of Full-Time W	orkers	
	Model 1	Model 2	Model 3	Model 4
Shops per 100k	201.49		179.76	-2528.26
	-394.02		-403.64	-2252.24
Average Price of Coffee		2639.01	2146.03	-10924.69
		-6491.7	-6643.19	-12572.36
Shops * Avg Price				1135.86
				-929.56
Intercept	19569.86 ***	15769.45	14858.91	45365.14
	-5377.81	-15289.03	-15561.97	-29373.01
N	47	47	47	47
R2	0.01	0	0.01	0.04

p < 0.001; ** p < 0.01; * p < 0.05.

Mean Wage of Part-Time Workers					
	Model 1	Model 2	Model 3	Model 4	
Shops per	77.29		72.92	-48.80	
	(61.53)		(62.66)	(355.07)	
Average		671.69	502.09	-107.29	
		(1017.89)	(1024.58)	(2032.18)	
Shops * Avg				51.35	
				(147.40)	
Intercept	5306.44	4676.74	4207.07	5626.25	
7	(857.66)	(2378.82)	(2404.21)	(4742.03)	
N	50	50	50	50	
R2	0.03	0.01	0.04	0.04	

^{***} p < 0.001; ** p < 0.01; * p < 0.05.

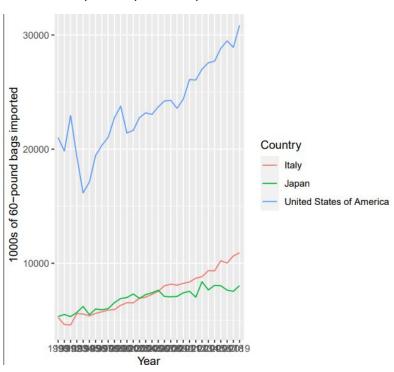
Mean Wage of Full-Time Coffee Workers



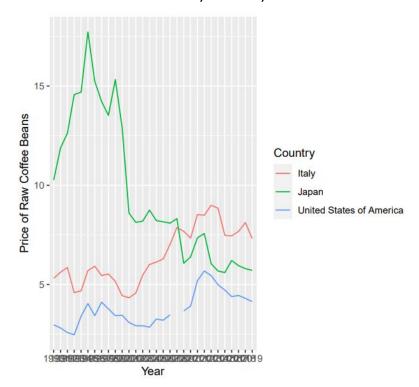
Mean Wage of Part-Time Coffee Workers



Coffee Imports by Country



Raw Coffee Bean Price by Country



Conclusions/Reflections

- Obstacles and limitations
- Reddit & Twitter
- Various methods
- Final workshop thoughts