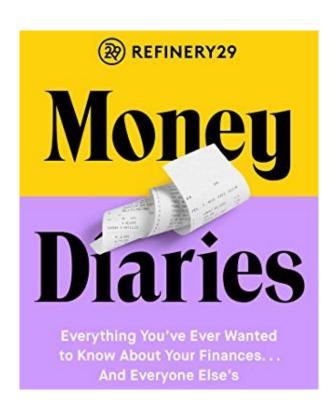
UNDERSTANDING HOW MILLENNIAL WOMEN SPEND THEIR TIME & MONEY

LISA VANDERVOORT

\$117,000



Refinery29 Money Diaries

- Scraped 476 diaries on refinery29.com from January 18, 2019-June 3, 2020
- Metadata: self-reported personal and financial information

A Week In Southwest Michigan On A Joint \$146,000 Income

Occupation: Accountant Industry: Nonprofit

Age: 43

Location: Southwest Michigan

My Income: \$23,000 between my two jobs

My Husband's Salary: \$115,000 plus ~\$8,000 bonus

My Paycheck Amount: \$325 (biweekly) and \$275 (2x/month) My Husband's Paycheck Amount (Biweekly): \$3,300

Monthly Expenses

Mortgage: \$1,797 for our four-bedroom, 3.5-bathroom home on one acre. I live with my husband,

E., and two kids. Mortgage should be paid off in six and a half more years!

Car Insurance: \$230 for three vehicles

Utilities: \$200-\$350

YouTube TV, Philo TV, Hulu, Netflix: \$80

Internet: \$89

Cell Phones: \$160 for four lines

Life Insurance: \$45

Health Insurance: \$150 copay for a PPO with \$6,5000 deductible, plus \$350 to a HSA (\$9,000

balance), pretax via my husband's job

Dental Insurance, Life, LTD, ADD: \$150 pretax via my husband's job

401(k): My husband deducts 8% (\$767/month) pretax, and gets 6% match and 4% gift. It has a \$300,000 balance, and I have \$100,000 from a previous job.

Savings: \$500 to our kids' college fund, with \$50,000 balance, and an average of \$1,200/month to general savings, which has a \$28,000 balance.

Personal Account Deductions: \$400 for my husband, \$200 for me. We use these for individual spending like meals/drinks with our friends, and my clothing and husband's sports/equipment.

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Refinery29 Money Diaries

 Text Data: A seven-day diary of what the diarist does and how they spend their money

Day Five

7:30 a.m. — Back to work! Same morning routine as every other workday. Coffee at the deli. \$1

12 p.m. - My boss is out sick today, so it's a relatively calm day. English muffin breakfast. Lunch is rice, chickpeas, and veggies. Also grab my usual afternoon coffee. \$1.09

6 p.m. — I meet up with a group of friends and head over to an antiwar protest nearby. I typically focus my activism on legislative wins, but given the urgency of the situation I think solidarity is an important reason to show up. There's a good crowd and the speakers are great, but it is a particularly cold night, so about 40 minutes in I stop feeling my toes!

 $8 \ \mathrm{p.m.} - \mathrm{I}$ somehow make it out without frostbite, so five of us head over to a falafel spot for dinner. I get a spicy falafel sandwich and a piece of baklava. Food, friends, and, most importantly, heat — what else do you need? \$13.78

9:30 p.m. — Head to my neighborhood and meet my friend, H., at a craft beer bar near my place. H. lives in my neighborhood as well, and it's nice to have a friend close by for impromptu nightcaps. I get an IPA and a wheat ale and Venmo him for my part of the bill. Tired and happy, I head to bed by 11! \$22

Daily Total: \$37.87















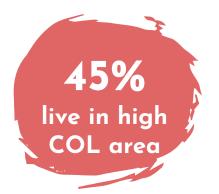
















Topic Modeling of All Diarists: NMF (nouns)

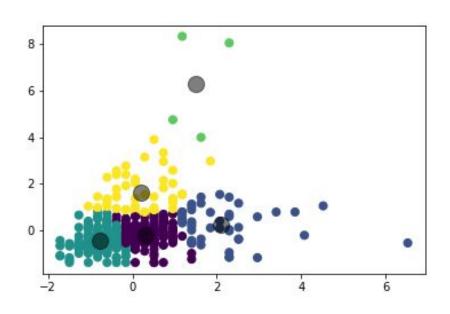
Food	Work
Coffee Class Cup Butter Salad Milk Shop Wine Days	Office Breakfast Meeting Desk Salad Alarm Door Chicken Food Boss
	Coffee Class Cup Butter Salad Milk Shop Wine

Topic Modeling of All Diarists: NMF (nouns)

Friends/ Socializing	Cooking/ Food	Work	Dogs	Self-care
Friends Friend Bar Wine Card Class Couple Drinks	Coffee Class Cup Butter Salad Milk Shop Wine	Office Breakfast Meeting Desk Salad Alarm Door Chicken	Dog Dogs Walk Car Business Dog walk Home dog Friends	Mom Parents Shower Food Hair School Phone Breakfast
Food Car	Days Partner	Food Boss	Breakfast Food	Face Cream

Topic Modeling of All Diarists: NMF (nouns)

Friends/ Socializing	Cooking/ Food	Work	Dogs	Self-care	Family	Husband	Baby
Friends	Coffee	Office	Dog	Mom	Kids	Husband	Baby
Friend	Class	Breakfast	Dogs	Parents	School	Husbands	Coffee
Bar	Cup	Meeting	Walk	Shower	Breakfast	Breakfast	Mom
Wine	Butter	Desk	Car	Food	Partner	Chicken	Milk
Card	Salad	Salad	Business	Hair	Coffee	Water	Shower
Class	Milk	Alarm	Dog walk	School	Paper	Food	Couple
Couple	Shop	Door	Home dog	Phone	Couple	Tea	Car
Drinks	Wine	Chicken	Friends	Breakfast	Sister	Car	Dad
Food	Days	Food	Breakfast	Face	Family	Store	Family
Car	Partner	Boss	Food	Cream	Chicken	Days	Cup



	Cluster 1: Early 20s, entry-level earners
Mean age (years)	24.2
Mean salary (yearly)	\$49,992
# Diarists	210

	Cluster 1: Early 20s, entry-level earners	Cluster 2: Late 20s, average earners	Cluster 3: Late 20s, high earners
Mean age (years)	24.2	29.1	28.6
Mean salary (yearly)	\$49,992	\$63,707	\$159,662
# Diarists	210	166	50

	Cluster 1: Early 20s, entry-level earners	Cluster 2: Late 20s, average earners	Cluster 3: Late 20s, high earners	Cluster 4: Mid 30s, average earners	Cluster 5: Mid 30s, high earners
Mean age (years)	24.2	29.1	28.6	37.2	34.5
Mean salary (yearly)	\$49,992	\$63,707	\$159,662	\$85,446	\$406,250
# Diarists	210	166	50	46	4

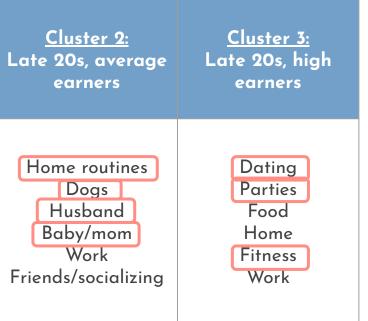
Topic Modeling NMF (nouns): Early 20s, Entry-level earners



Write about on self-discovery (travel) and self-care (self-care, purchases, fitness)

Topic Modeling NMF (nouns): Late 20s Comparisons ____

Write about immediate family (husband, baby, mom) and home (dogs, home routines)



Write about socializing and self-care

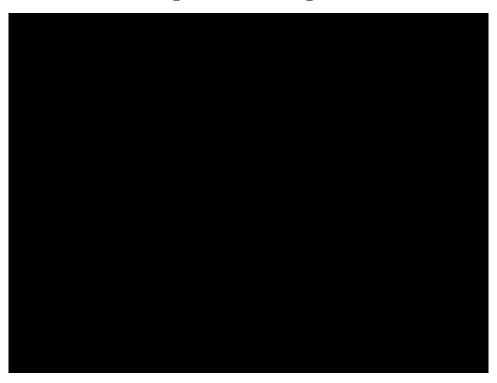
Topic Modeling NMF (nouns): Mid 30s Comparisons

Write about family and home



Write about family, but also self-care

Refinery29 Money Diary Recommender



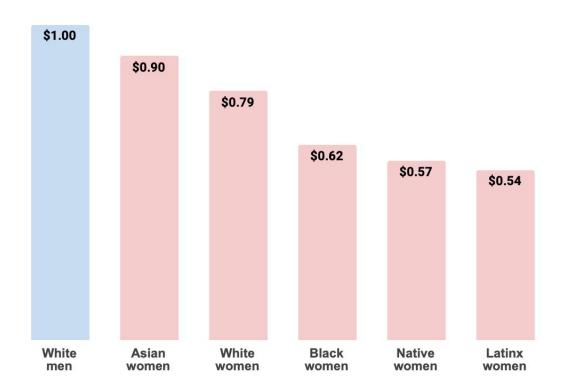
Questions?



Gender Pay Gap (2018): Overall



Gender Pay Gap (2018): By Race



Millennial women wrote about...



Millennial women wrote about...



Topic Modeling on the Clusters

Cluster 1: Early 20s, entry-level earners	Cluster 2: Late 20s, average earners	<u>Cluster 3:</u> Late 20s, high earners	Cluster 4: Mid 30s, average earners	<u>Cluster 5:</u> Mid 30s, high earners
Self-care Purchases Dogs/pets Food Fitness Travel Work Family	Home routines Dogs Husband Baby/mom Work Friends/socializin	Dating Parties Food Home Fitness Work	Work Kid routines Family Adult routines Pets Food	Family routines Work Parenting Self-care Family

Topic Modeling: Early 20s, Entry-level earners

Self-care	Purchases	Dogs/Pets	Food	Fitness	Travel	Work	Family
Hair Walk Episode Gym Water Face Teeth Routine Butter	Sister School Card Routine Book Credit Kids Credit card Kitchen	Dog Walk Dogs Car Cream Business School Dog walk Office	Husband Kids Water Tea Chicken Table Media Cafe Cream	Class School bus Studio Classes Yoga Gym Alarm Workout Rest	Partner Airport Hotel Restaurant Flight Shop Water Card Pay	Office Bar Chicken Salad Train Boss Desk Door Tonight	Mom Parents Dad Car Family Weekend Brother Water Pay
Makeup	Bacon	Ice cream	Pajamas		Flights	Alarm	Door

Topic Modeling: Late 20s, Average earners

Home routines	Dogs	Husband	Baby/Mom	Work	Friends/ Socializing
Food Walk Breakfast Days School ROutine Phone Hair Alarm Break	Dog Walk Dogs Breakfast Home dog Office Coffee Dog walk Friends Park	Husban Chicken Breakfast Office Food Husbands Salad Shower Pizza Car	Baby Milk Coffee Downstairs Granola Bowl Mom Yogurt Cup Shower	Coffee Office Cup Days Meeting Class Cat Breakfast Store Episode	Friend Friends Bar Office Food Class Card Alarm Water Party

Topic Modeling: Late 20s, High earners

Dating	Parties	Food	Home	Fitness	Work
Coffee Friends Friend Bar Card Salad Book Store Date Drinks	Office Baby Shower Husband Company Emails Party Food Mom Dad	Butter Parents Cream Walk Meetings Chocolate Break Ice Weekend Ice cream	Husband Dog Food Office Wine Coffee Car Store Family Husband	Office Gym Friend Water Food Desk Workout Breakfast Days Card	Kids Clothes Door Coffee Team Friends Breakfast Office Chicken Family

Topic Modeling: Mid 30s, Average earners

Work	Kid Routines	Family	Adult Routines	Pets	Food
Wine Bar Desk Alarm Train Class Chicken Yogurt Date kitchen	Kids Partner School Boys Daycare Commute Paper Daughter Game Lunches	Husband Boys Son Husbands Rice Desk Email Yogurt Meeting bar	Girls School Hair Gym Chicken Husband Meeting Parents Project Guest	Dogs Business Cats Boyfriend Airport Town Dogs Tea Lots Tacos	Baby Banana Pizza Chicken Milk Sister Strawberries Cheese Daycare Butter

Topic Modeling: Mid 30s, High earners

Family Routines	Work	Parenting	Self-care	Family
Home Work Bed School Coffee Parents Office Food Store Family	Work Dogs Walk Break Order Wine Car Online City coffee	Kids Business Husband Order School Coffee Estate Dog Door Phone	Dogs School Wine Husband Gym Life Health Workout Law Shower	Coffee Work Wedding Family Home Dress Mom Gym Brother Dad

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