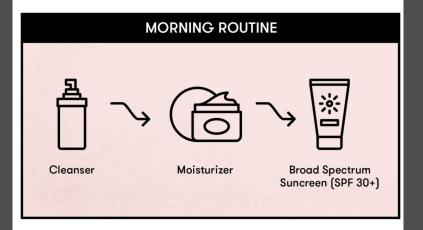
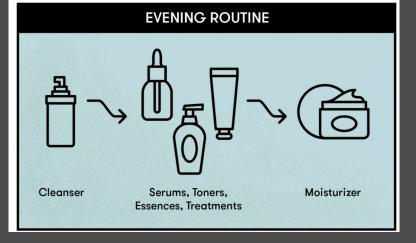


By: Kristin Teves



#### BASIC SKIN-CARE STEPS







# Preliminary Questions:

#### **Customer Perspective:**

- 1. What categories of skin care products does Ulta carry?
- 2. Which are the most reviewed categories and brands?

#### **Business Perspective:**

- 3. Which brands have the most products?
- 4. Are there brands that don't receive enough attention (reviews)?

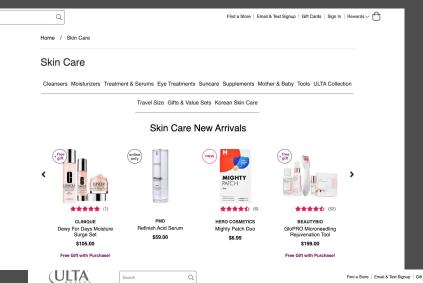
# Ulta Skin Care Scraping

#### Scraped 5 Categories:

- Cleansers
- Moisturizers
- Treatment & Serums
- Eye Treatments
- Suncare

#### Process:

- Using Scrapy, scraped each Category and made separate .csv files
- Concatenate 5 .csv files to make 1 dataframe



Search

Shop by Brand New Arrivals

Skin Care

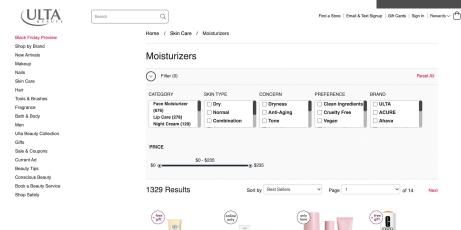
Tools & Brushes Fragrance Bath & Body

Ulta Beauty Collection Gifts Sale & Coupons Current Ad

Beauty Tips

Shop Safely

Conscious Beauty Book a Beauty Service



\*\*\*\* (3)

\*\*\*\* (411)

# Data Cleaning <



Split Category
Column

Created Category and Type Column

123 456 789

Numerical Values

Converted Price, Rating, and Size into float data type Binned pricing based on affordability:

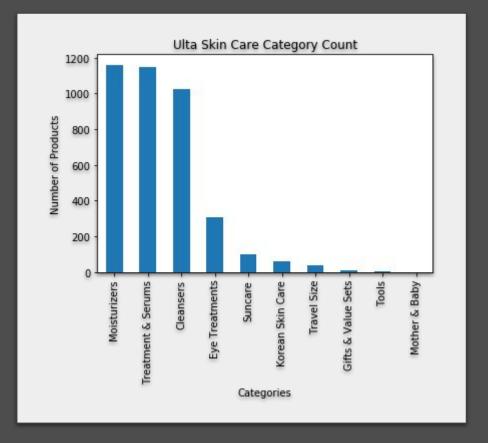
Low-Cost: <15</li>Fair: 15 - 35Luxury: 35+

Affordability
Column

New categorical column, affordability

# Category Count

- Ulta carries more Moisturizer products, followed by Treatment & Serums and Cleansers. These make up the top 3 categories Ulta inventories.
- They carry some Eye Treatments and Suncare products, along with other miscellaneous products.



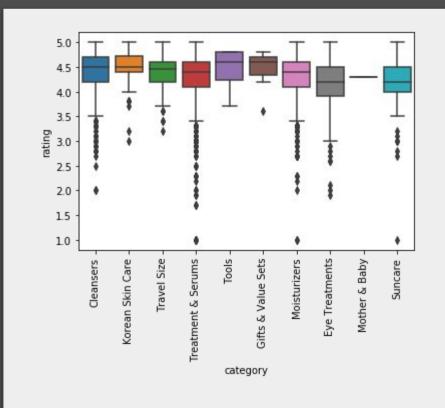
# Category Reviews

- Since Moisturizers contain the most product count, they also have the most number of reviews.
- Moisturizers, on average, receive 300 reviews
- Cleansers contain more reviews than Treatment & Serums

	count	sum	mean
category			
Moisturizers	1123	337190.0	300.258237
Cleansers	974	262509.0	269.516427
Treatment & Serums	1071	189137.0	176.598506
Eye Treatments	294	53422.0	181.707483
Travel Size	36	30597.0	849.916667
Suncare	95	17592.0	185.178947
Korean Skin Care	56	7246.0	129.392857
Gifts & Value Sets	10	3060.0	306.000000
Tools	4	872.0	218.000000
Mother & Baby	1	155.0	155.000000

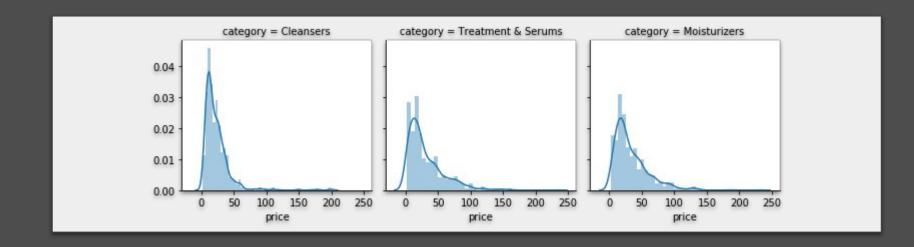
# Category Ratings

- Most products in each category, on average, receive a 4.0 rating or higher.
- Of the 5 most inventoried categories, Suncare and Eye Treatments receive slightly lower ratings



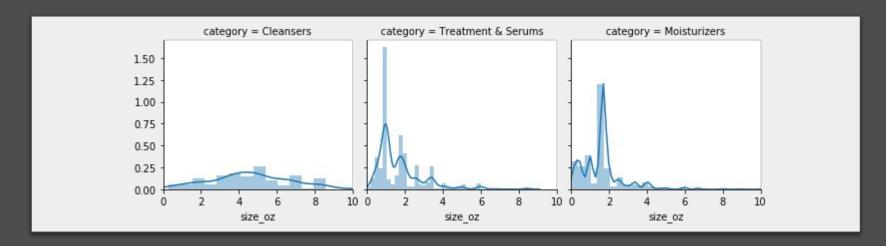
# Compare Top 3 Categories:

**Cleansers** are **lower priced** than Treatment & Serums and Moisturizers, where it is skewed to the right.



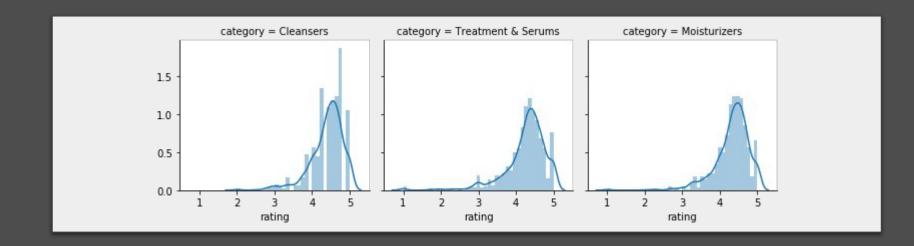
# Compare Top 3 Categories:

Smaller quantity does not necessarily guarantee lower price. **Treatment & Serums** and **Moisturizers** tend to be packaged in **smaller quantities** (fluid oz) than cleansers, despite having a higher price distribution. Factors, such as ingredients, concentration, frequency of use, etc., may contribute to packaging.



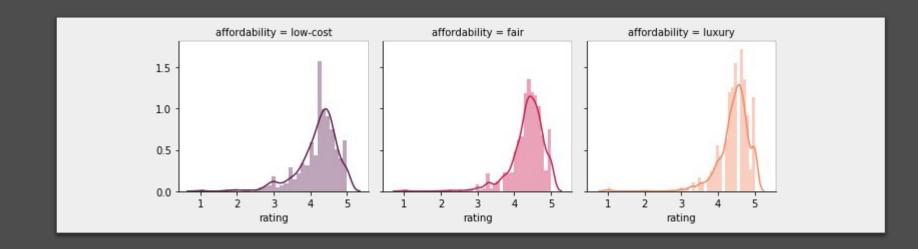
# Compare Top 3 Categories:

**Ratings** are **similarly distributed above 4.0** between Cleansers, Treatment & Serums, and Moisturizers



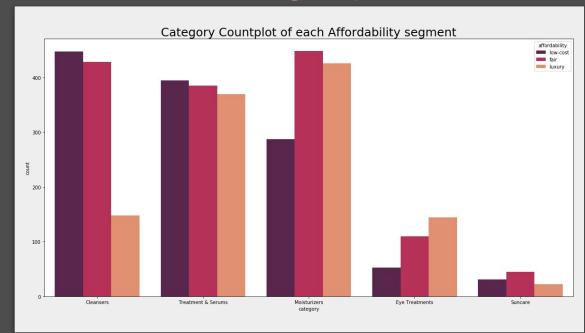
# Affordability Ratings:

However, **luxury** product pricing are **rated higher** than low-cost and fairly-priced products



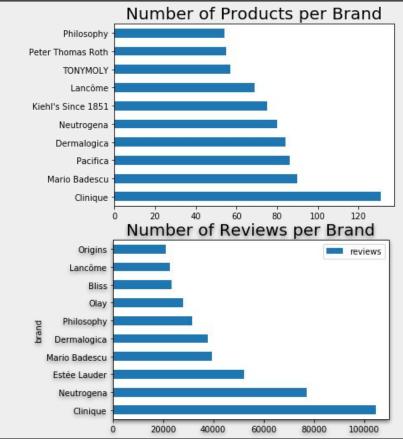
## Affordability within each Category

- Cleansers are commonly priced at low-cost and fair values
- Treatments & Serums have almost equal amounts of luxury, fairly-priced, and low cost products
- Moisturizers consist are commonly priced at fair and luxury values
- Eye Treatments are commonly luxury products
- Suncare are commonly fairly-priced.

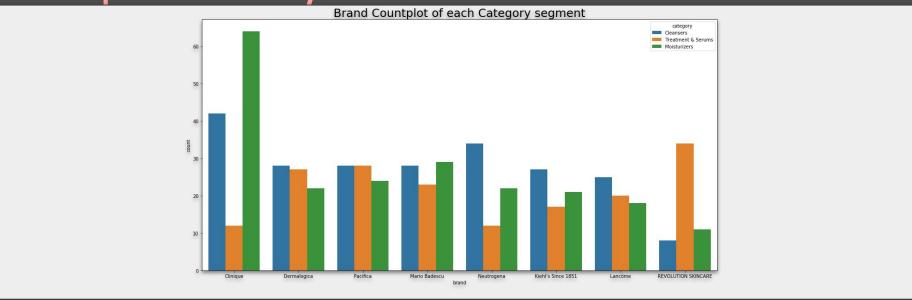


Top Inventory vs. Top Reviewed Brands

- Ulta contains the most Clinique products, followed by Mario Badescu and Pacifica
- Clinique has the most reviews, followed by Neutrogena and Estee Lauder
- Although Mario Badescu has more products, Neutrogena and Estee Lauder receive more reviews

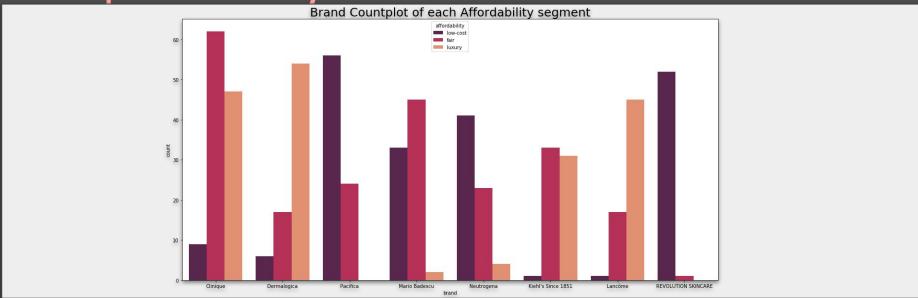


## Top Inventory (Product-Count) Brands



- Neutrogena has notably more Cleansers in their catalogue
- REVOLUTION SKINCARE has notably more Treatment & Serums in their catalogue
- Clinique has notably more Moisturizers in their catalogue
- All other brands have slightly similar distribution across each category

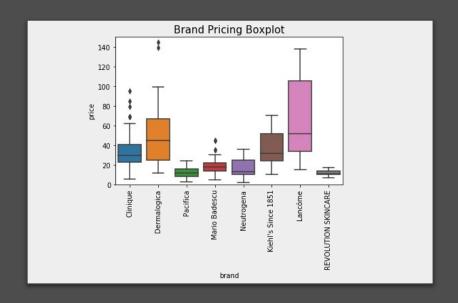
## Top Inventory (Product-Count) Brands

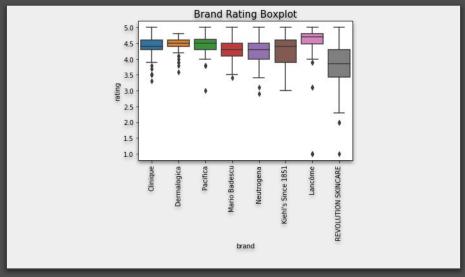


- Low-Cost Products: Pacifica, Neutrogena, REVOLUTION SKINCARE
- Fairly Priced Products: Clinique, Mario Badescu, Kiehl's Since 1851
- Luxury Products: Dermalogica, Lancome

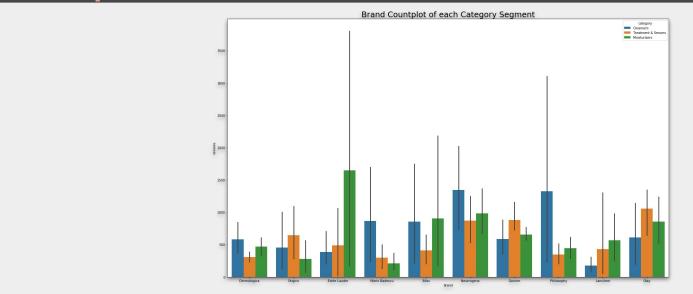
## Top Inventory (Product-Count) Brands

- Despite having more expensive products, Lancome maintains a higher average rating.
- The top inventoried brands are rated similarly, with the exception of REVOLUTION SKINCARE and Lancome.



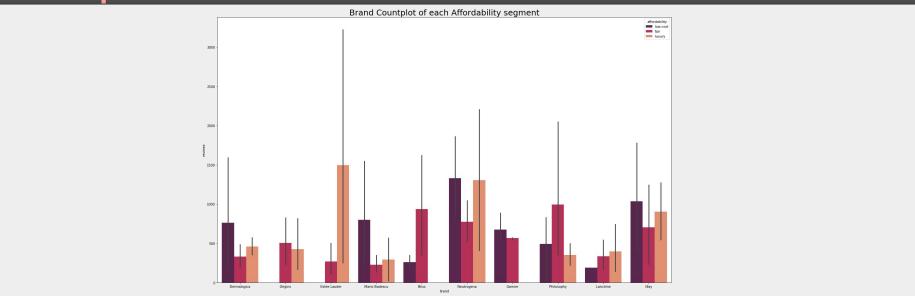


#### Top Reviewed Brands



- The following brands receive more **Cleanser** reviews: Neutrogena, Philosophy
- The following brands receive more **Treatment & Serum** reviews: Origins, Garnier, Olay
- The following brands receive more **Moisturizer** reviews: Estee Lauder

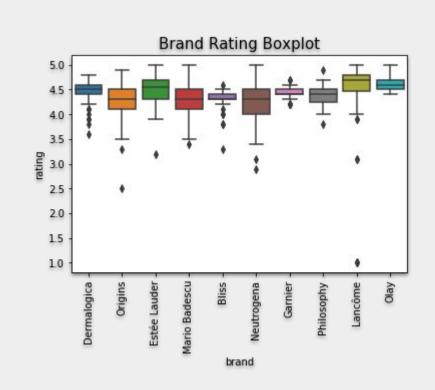
#### Top Reviewed Brands



- The following brands receive more Low-cost reviews: Neutrogena (followed closely with Luxury), Olay
- The following brands receive more Fair reviews: Bliss, Philosophy
- The following brands receive more **Luxury** reviews: Estee Lauder

## Top Reviewed Brands

The brands with the highest reviews have similar average rating



# Summary ~

	Cleansers	Treatment & Serums	Moisturizers
Most Reviews	Neutrogena, Philosophy	Olay	Estee Lauder
Most in Catalogue	Clinique, Neutrogena	REVOLUTION SKINCARE	Clinique
Affordability	Low, Fair	Low, Fair, Luxury	Fair, Luxury

# Opportunities:

- REVOLUTION SKINCARE received the least amount of reviews and has the lowest rating, yet they inventory ~54 skin care products
  - Consider why this brand received little attention among users and determine if holding inventory will remain profitable
- Pacifica received less than 500 reviews with ~86 skin care products, but falls in the low price range and has ~4.5 average rating
- **Kiehl's Since 1851** contains ~**75 skin care** products but only received less than 500 reviews
  - Pricing range is slightly higher than some brands like
     Neutrogena, which is priced lower and has more reviews
  - Consider why this brand received little attention among users and determine if holding inventory will remain profitable

#### Future Work:

- Use Selenium to scrape more product information: Best Uses, Pros,
   Cons
- Gather more review information: review, location of reviewer,
   describe yourself, submission date, bottom line recommendation
- Parse details section for **ingredients**

# Thank Jow!

### CONTACT <

Do you have any questions? youremail@freepik.com +91 620 421 838 yourcompany.com







CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik.

PLEASE KEEP THIS SLIDE FOR ATTRIBUTION.

