# Scrapy Analysis of BudgetBytes.com

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## About BudgetBytes

#### **Price Conscious**

As implied by the blog title, the main goal of BudgetBytes.com is to provide inexpensive recipes. Recipes give the per recipe and per serving prices.

#### Time Efficient

In addition to saving money, BudgetBytes aims to save time and energy while still creating delicious meals. These recipes are made with easy to find ingredients and common cooking supplies.

#### Multi-Diet Inclusive

The recipes on BudgetBytes.com are broken out into many different categories, which include several that are diet and allergy specific. Paired with a broad cultural repertoire, BudgetBytes reaches a large audience.

# The Data

Retrieved using Scrapy

960 unique recipes

32 different categories

6232 total recipes by category

# **Analysis Questions**

Question 1

Question 2

Question 3

Does rating increase with recipe price?

Expectation: Yes

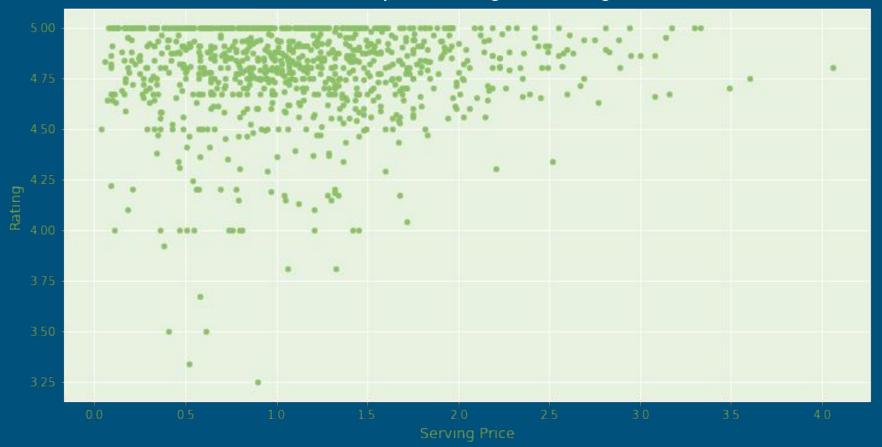
Does rating decrease with increasing cook time?

Expectation: Yes

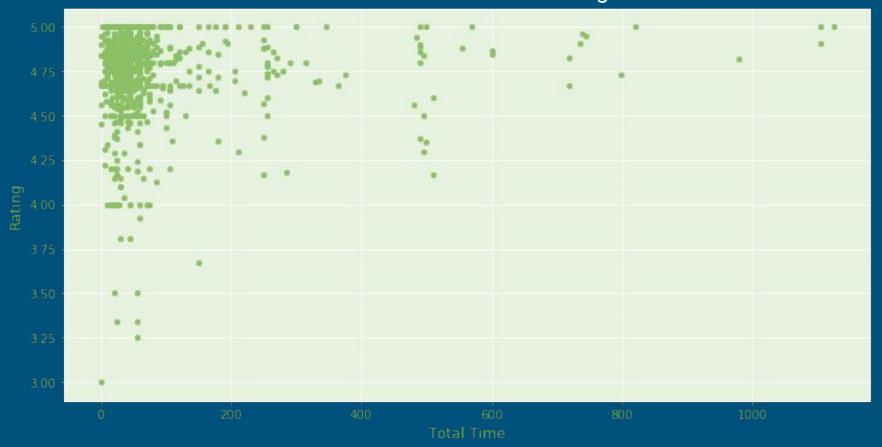
Are vegetarian and allergy-friendly recipes as popular and highly rated as meat-based recipes?

Expectation: No

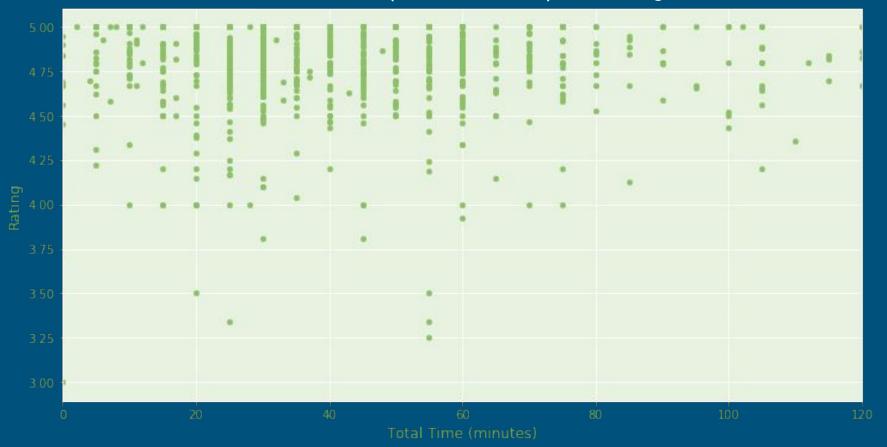
## Price per Serving vs. Rating



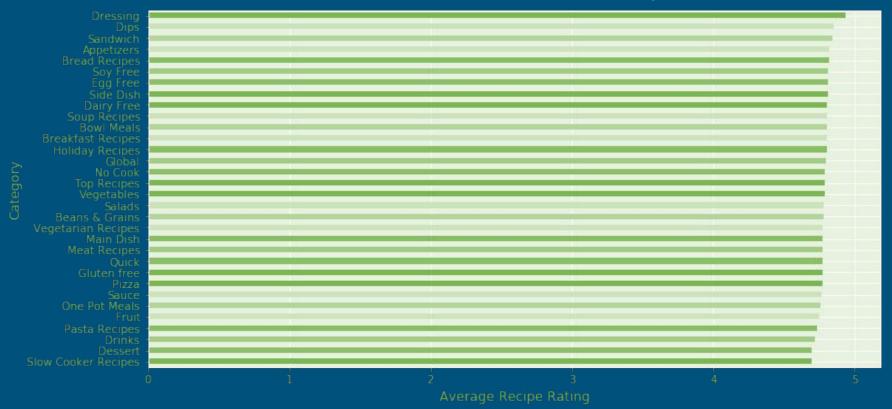
## Total Cook Time vs. Rating



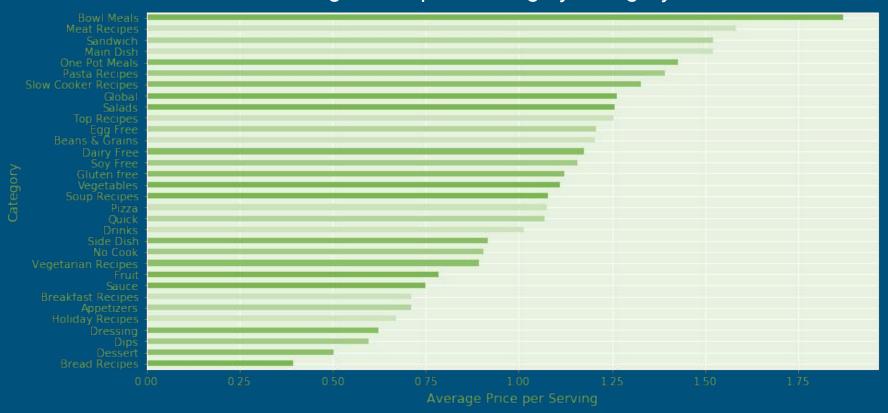
## Total Time (0-120 minutes) vs. Rating



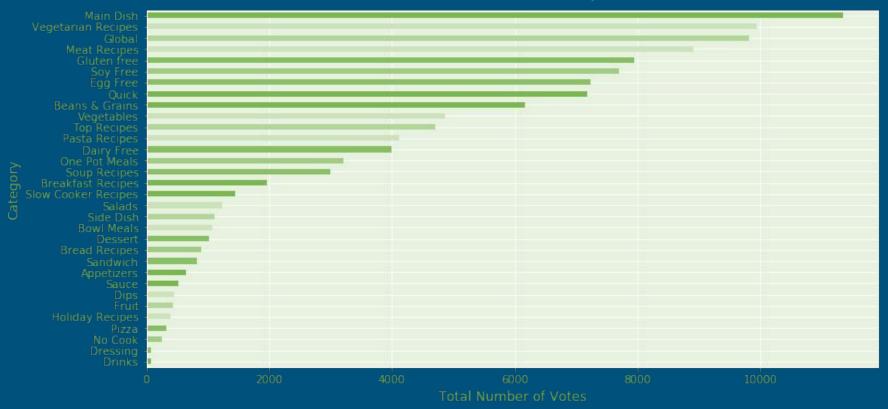
#### Average Recipe Rating per Category



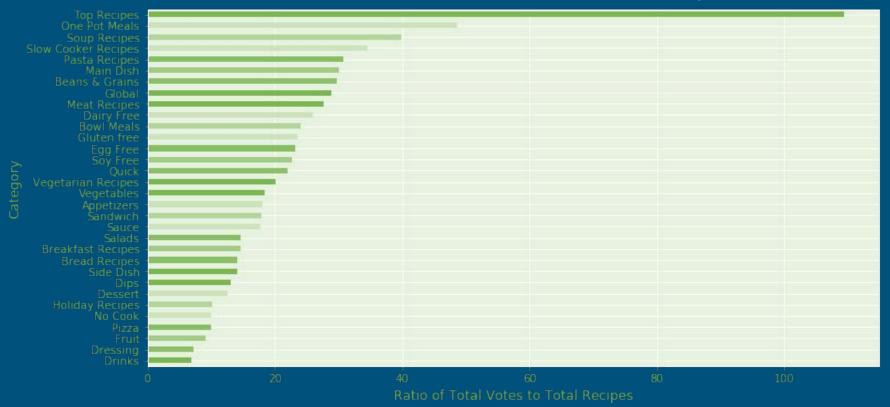
### Average Price per Serving by Category



#### **Total Votes per Category**



#### Ratio of Total Votes to Total Recipes per Category



## **Question Results**

Question 1

Question 2

Question 3

# Does rating increase with recipe price?

- Expectation: Yes
- Result: No!

Does rating decrease with increasing cook time?

- Expectation: Yes
- Result: No!

Are vegetarian and allergy-friendly recipes as popular and highly rated as meat-based recipes?

- Expectation: No
- Result: Yes, and usually more!

# Overall Characteristics

BudgetBytes vs Blue Apron & Hello Fresh

#### BudgetBytes:

Average Rating	4.777889
Average Total Time	72.087500
Median Total Time	40.000000
Average Price per Serving	1.128525

#### Blue Apron:

- regular: \$7.49/\$8.99 per serving, 4 servings, 4/2 times a week, free shipping
- vegetarian: \$9.99 per serving, 2 servings, 3/2 times a week, free shipping/\$7.99 shipping

#### Hello Fresh:

- regular: \$7.49/\$9.99 per serving, 4/2 servings, 3/2 times a week, \$6.99/\$7.99 shipping
- vegetarian: \$6.99/\$8.99 per serving, 4/2 servings, 3 times a week, \$6.99 shipping

## Future Work

- Shiny App to explore data
- Possibly sentiment analysis (not many comments)

Thank you!