MOTIVATION

DATA

RECOMMENDATION
SYSTEM

NEXT STEPS

Motivation

Data

Web-scraped over 8000 recipes:

- URL

- Ingredient List

Cleaning with NLP
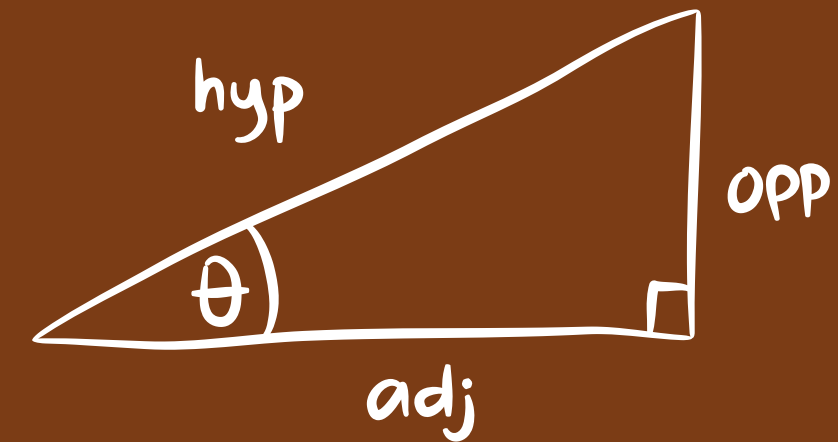
lowercase

Regex

POS tagging

Stopwords

Content-based Recommendation System

$$\cos(\theta) = \frac{adj}{hyp}$$

Example

```
1  recipe_recommend()
```
execution queued 10:05:53 2022-06-02

Ingredient: thyme

How many recommendations? [3]

Ingredient: thyme
How many recommendations? 3

	index	Titles	URL	Ingredients
0	8703	Honeydew Sorbet With Vanilla And Honey	https://cooking.nytimes.com/recipes/9703-honeydew-sorbet-with-vanilla-and-honey	1/4 cup thyme honey 1 vanilla bean, split in half 4 cups honeydew chunks 2 tablespoons lemon juice
1	4189	Grilled Sea Scallops With Radicchio	https://cooking.nytimes.com/recipes/5189-grilled-sea-scallops-with-radicchio	16 large sea scallops 1 teaspoon fresh thyme (or 1/2 teaspoon dried) 4 tablespoons extra-virgin olive oil 2 heads radicchio Coarse salt and freshly ground pepper to taste 1 lemon cut into quarters 4 sprigs fresh thyme if available
2	1880	Haricots Dagneau Braised Lamb With Beans	https://cooking.nytimes.com/recipes/2880-haricots-dagneau-braised-lamb-with-beans	1 pound dried lima beans or any small white beans 7 cups water 1 teaspoon dried thyme or 4 sprigs fresh thyme 1 bay leaf 1 medium-size onion stuck with 2 cloves 4 large carrots, trimmed and scraped Salt to taste 3 pounds lean shoulder of lamb, cut into 2-inch cubes, including the bones Salt and freshly ground pepper to taste 1 cup chopped onion 1 tablespoon chopped garlic 1 cup dry white wine 1 cup water 1 28-ounce can crushed tomatoes 1 teaspoon dried thyme or 4 sprigs of fresh thyme 1 bay leaf

Next Steps

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Gather more data

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Create app

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Refine NLP methods

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Add functionality for ingredient recommendations or substitutions

Thank you!