

Web Crawler Report

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Knowledge Base:

The knowledge base was created using the selected words from the list of term frequencies from part 4 of the assignment. The words we selected were not all of the top words from the frequencies but rather based on our domain knowledge on the subject of pies. Many of the top words in the list ended up being unrelated terms that just appeared multiple times on sites with similar layouts and formats (or pages from the same website).

The knowledge base itself is a dictionary that uses each of the ten words we selected as a key and some manually written sentences (some are facts from sources like wikipedia) that explore some uses and context of the words. Each word has a base of three sentences that can be used to provide some meaning and knowledge of the searched word.

Top 10 terms:

These terms do not reflect the top ten frequencies of the term frequencies list from the program, but rather are the top 10 relevant terms from the list (i.e. they are ordered by their frequencies so 'kitchen' is the 4th most frequent relevant term from the list).

1. Pie
2. Chocolate
3. Food
4. Kitchen
5. Pizza
6. Recipes
7. Oven
8. Cookies
9. Butter
10. cream

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word_dict = {
    'pie': [
        "There's a town called Pie Town in New Mexico, USA",
        "Pies can be traced back to 6000 BC",
        "The first pie recipe was published by the Romans"
    ],
    'chocolate': [
        "Chocolate is a common filling or topping for pies",
        "It takes 400 cocoa beans to make one pound of chocolate",
        "Chocolate comes from a fruit tree; it's made from a seed"
    ],
    'food': [
        "Food is any substance consumed to provide nutritional support for an organism",
        "Pie is a delicious desert food that is part of cuisine all around the world",
        "Food usually needs to go through some steps for proper preparation before being eaten, whether that is baking, frying, or",
    ],
    'kitchen': [
        "A kitchen is a room or part of a room used for cooking and food preparation in a dwelling or in a commercial establishment",
        "The main functions of a kitchen are to store, prepare and cook food.",
        "The kitchen houses many common appliances like a refrigerator, freezer, microwave oven, convection oven, and sink."
    ],
}

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Sample Dialog:

“How old is pie?”

- “Pies can be traced back to 6000 BC”

“Where does chocolate come from?”

- “Chocolate comes from a fruit tree; it’s made from a seed.

“Tell me a cool cookie fact.”

- "Did you know Americans consume over 2 billion cookies a year ... about 300 cookies for each person."