## **Solution Guide: grep**

- The first step is to navigate into the folder on your VM where the recipes are located. To do this, run the following commands:
  - cd /03-student/day2/cd finding\_your\_way/cd PeanutButtery.net/other/disregard/wonkasecretrecipes
- We need to search for recipes containing the ingredient "guavaberries." The command to search for them in this directory is:
  - grep -i guavaberries \*
    - grep : The command being run.
    - -i : An option for grep indicating case insensitivity.
    - guavaberries : The specific data point being searched for.
    - \* : A wildcard, indicating the command should search through all files in the current directory.
- After running the command, the results show four files containing "guavaberries":
  - recipe\_crunchybars:5 guavaberries
     recipe\_peanutballs:4 guavaberries
     recipe\_peanutsquares:8 guavaberries
  - o recipe\_yumbars:2 guavaberries
  - These results show the file names of all recipes that include guavaberry as an ingredient, followed by a colon and the line in which "guavaberries" appears.

## **Bonus**

• We will adjust the grep command to search for files that also contain the word "optional," indicating that the guavaberries are an optional ingredient.

The command to search for multiple data points in a file is:

```
grep -i 'guavaberries\|optional' *
```

- grep : The command being run.
- -i : Option for grep indicating case insensitivity.
- guavaberries : The first specific data point being searched for.
- \| : Indicates OR.
- Included between values to search for multiple values using one command.
- optional: The second data point being searched for.
- Run the command and notice the results show all four files, but five lines contain
  guavaberries OR the word "optional": recipecrunchybars:5 guavaberries
  recipepeanutballs:4 guavaberries recipepeanutsquares:8 guavaberries
  recipepeanutsquares: Note: optional another berry that can be substituted is blueberries
  recipe\_yumbars:2 guavaberries
- This shows that recipe\_peanutsquares has an "optional" note stating that blueberries can substitute guavaberries.
- This shows that Wonka should be the most concerned about the Peanut Squares recipe, as Slugworth can make this without guavaberries.

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