DESIGN.md 2024-10-01

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## size() method design

To find out how many elements in the self.notes list, we use the Python built-in function len().

• Call len() with argument self.notes and return the result.

## how\_often\_word() method design

- sentence is a parameter to this method and is a string of words separated by white spaces
- Define an empty dictionary word\_occurences
- for each word in sentence.split(), iterate through the following:
  - get the count (value) of word (key) in dictionary word\_occurences using .get() method by giving word as key
  - o increment the occurence count by 1
  - assign the above value to the value of key word of dictionary word\_occurences[] using assignment operator
- return word\_occurences, which contains the key:value pairs of word:occurences

## word\_histogram() method design

- self is the current instance of the class Notes
- self.notes is an instance variable of the class Notes and is initialized to a list in the constructor, which is passed as an argument when the class instance is created
- call <a href="https://www.often\_word">https://www.often\_word</a>() using class name instead of class instance as this is a static method
- pass the resulted string from .join() of self.notes as parameter to how\_often\_words()
- return the return value of how\_often\_word()