

## Lecture 10 questions

(These exercises are taken from chapter 9 in Dierbach. Page 380.)

**A1.** The list called "my\_lyrics" contains the song lyrics to the song We don't talk about Bruno (Link to song:

<https://www.youtube.com/watch?v=bvWRMAU6V-c>)

Paste the code for my\_lyrics into your IDE to create the list.

Count the number of times each word occurs in the song. Hint:

Create an empty dictionary called "word\_dict".

Use a for loop to count each occurrence of a word and store the results in the dictionary.

```
my_lyrics = ['We', 'dont', 'talk', 'about', 'Bruno', 'no', 'no', 'no',
'We', 'dont', 'talk', 'about', 'Bruno', 'but',
'It', 'was', 'my', 'wedding', 'day',
'It', 'was', 'our', 'wedding', 'day',
'We', 'were', 'getting', 'ready', 'and', 'there', 'wasnt', 'a', 'cloud', 'in',
'the', 'sky',
'No', 'clouds', 'allowed', 'in', 'the', 'sky',
'Bruno', 'walks', 'in', 'with', 'a', 'mischievous', 'grin',
'Thunder',
'You', 'telling', 'this', 'story', 'or', 'am', 'I',
'I', 'am', 'sorry', 'mi', 'vida', 'go', 'on',
'Bruno', 'says', 'It', 'looks', 'like', 'rain',
'Why', 'did', 'he', 'tell', 'us',
'In', 'doing', 'so', 'he', 'floods', 'my', 'brain',
'Abuela', 'get', 'the', 'umbrellas',
'Married', 'in', 'a', 'hurricane',
'What', 'a', 'joyous', 'day', 'but', 'anyway',
'We', 'dont', 'talk', 'about', 'Bruno', 'no', 'no', 'no',
'We', 'dont', 'talk', 'about', 'Bruno',
'Hey', 'Grew', 'to', 'live', 'in', 'fear', 'of', 'Bruno', 'stuttering', 'or',
'stumbling',
'I', 'could', 'always', 'hear', 'him', 'sort', 'of', 'muttering', 'and',
'mumbling',
'I', 'associate', 'him', 'with', 'the', 'sound', 'of', 'falling', 'sand',
'It', 'is', 'a', 'heavy', 'lift', 'with', 'a', 'gift', 'so', 'humbling',
'Always', 'left', 'Abuela', 'and', 'the', 'family', 'fumbling',
'Grappling', 'with', 'prophecies', 'they', 'could', 'not', 'understand',
'Do', 'you', 'understand',
'A', 'seven', 'foot', 'frame',
'Rats', 'along', 'his', 'back',
'When', 'he', 'calls', 'your', 'name',
'It', 'all', 'fades', 'to', 'black',
'Yeah', 'he', 'sees', 'your', 'dreams',
'And', 'feasts', 'on', 'your', 'screams', 'hey',
'We', 'do', 'not', 'talk', 'about', 'Bruno', 'no', 'no', 'no',
'We', 'do', 'not', 'talk', 'about', 'Bruno', 'no', 'no', 'no',
'We', 'do', 'not', 'talk', 'about', 'Bruno',
'we', 'do', 'not', 'talk', 'about', 'Bruno']
```

**A2.** Count the number of unique words in the song using the dictionary "word\_dict" from exercise A1.

**A3.** Count the number of unique words in the song using a set called "word\_set". Transform the words to proper case with the .capitalize() command.

**P5.** Write a Python program that starts with a (possibly empty) set of vegetable names and prompts the user for a vegetable name. A message saying "already exists" will be printed if the given vegetable is already in the set, otherwise, the new vegetable should be added, and the set is updated.

**P6.** Write a Python program that prompts the user for a string containing letters, each of which may be in either uppercase or lowercase. The word, number of vowels, and number of consonants are stored in a dictionary, and displayed to the user.