Lord_of_the_flies_solution

December 31, 2018

0.1 Solution of 6.6.1, Lord of the Fruit Flies

0.1.1 Identify the number of papers in PubMed that has *Drosophila virilis* in the title or abstract

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In [1]: from Bio import Entrez
import re
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We construct an esearch request and use the NCBI history function in order to refer to this search in our subsequent efetch call.

0.2 Retrieve the PubMed entries using our search history

0.3 Count the number of contributions per author

We construct a dictionary with all authors as keys and the number of contributions as value.

0.4 Find the top five researchers

Dictionaries do not have a natural order but we can sort a dictionary based on the values using the function sorted. We retrieve the number of contributions per author from our author_dict using author_dict.get and use it as value in the sorted function. sorted returns a list that can be indexed to return only the top 5 of researchers.