


```
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'water',
'sea',
'oil',
'swimming',
',',
'...',
'FULLER',
'S',
'PROFANE',
'AND',
'HULL',
'STATE',
'So',
'close',
'behind',
'promontory',
'lie',
'The',
'huge',
'Leviathan',
'attend',
'prey',
'And',
'give',
'change',
'swallow',
'fry',
'which',
'gaping',
'jaws',
'mistake',
'way',
',',
'...',
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'S',
'ANNUS',
'MIRABILIS',
'whale',
'floating',
'stern',
'ship',
'cut',
'head',
'tow',
'boat',
'near',
'shore',
'come',
'aground',
'twelve',
'thirteen',
'feet',
'water',
',',
'...',
'THOMAS',
'EDGE',
'S',
'TEN',
'VOYAGES',
'TO',
'SPITZBERGEN',
'IN',
'PRICHAS',
'Ta',
'way',
'many',
'whales',
'sporting',
'fountainness',
'fuzzing',
'water',
'pipes',
'vents',
'nature',
'placed',
'shoulders',
',',
'...',
'SIR',
'T',
'HERBERT',
'S',
'VOYAGES',
'INTO',
'ASIA',
'AND',
'AFRICA',
'HARRIS',
'COLL',
'Here',
'saw',
'huge',
'troops',
'forced',
'proceed',
'great',
'deal',
'caution',
'fear',
'run',
'ship',
'upon',
',',
'...',
'SCHOUTEN',
'S',
'SIXTH',
'CRUPNAVIGATION',
'we',
'set',
'sail',
'Ebbe',
'wind',
'N',
'E',
'ship',
'called',
'The',
'Jonas',
'Whale',
',',
'Some',
'say',
'whale',
'open',
'mouth',
'fable',
',',
'They',
'frequently',
'climb',
'masts',
'see',
'whether',
'see',
'whale',
'first',
'discoverer',
'ducat',
'paint',
',',
'...',
'J',
'told',
'whale',
'taken',
'near',
'Shetland',
...]
```

In [35]: len(palabrasImportantes00), len(text1)

Out[35]: (122531, 268819)

Recordando la forma rápida de Python

In [39]: palabras_imp = []

```
palabras_imp.append(palabra) for palabra in text1 if palabra not in palabras_eliminar]
palabras_imp
```



```
'sea',
'sea',
'swimming',
'oil',
'...',
'FULLER',
'S',
'PROFANE',
'AND',
'HULLY',
'STATE',
'So',
'close',
'behind',
'promontory',
'lie',
'The',
'huge',
'Leviathan',
'attend',
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'IN',
'PRICHAS',
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'fasci',
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'...',
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'INTO',
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'AND',
'AFRICA',
'HARRIS',
'COLL',
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'caution',
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'upon',
'...',
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'SIXTH',
'CIRCUMNAVIGATION',
'we',
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'sail',
'Elbe',
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'E',
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'frequently',
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'lasts',
'see',
'whether',
'see',
'whale',
'first',
'discoverer',
'ducat',
'pains',
'...',
'...',
'I',
'told',
'whale',
'taken',
'near',
'Shetland',
...]
```

In [40]: len(palabras_imp)

Out[40]: 122531

122531 palabras importantes de 260819 totales !!

In [41]: (122531/260819) *100

Out[41]: 46.97932282540766

In [42]: (len(palabras_imp) / len(text1))*100

Out[42]: 46.97932282540766

Hemos eliminado la mitad de las palabras

2.1 Counter

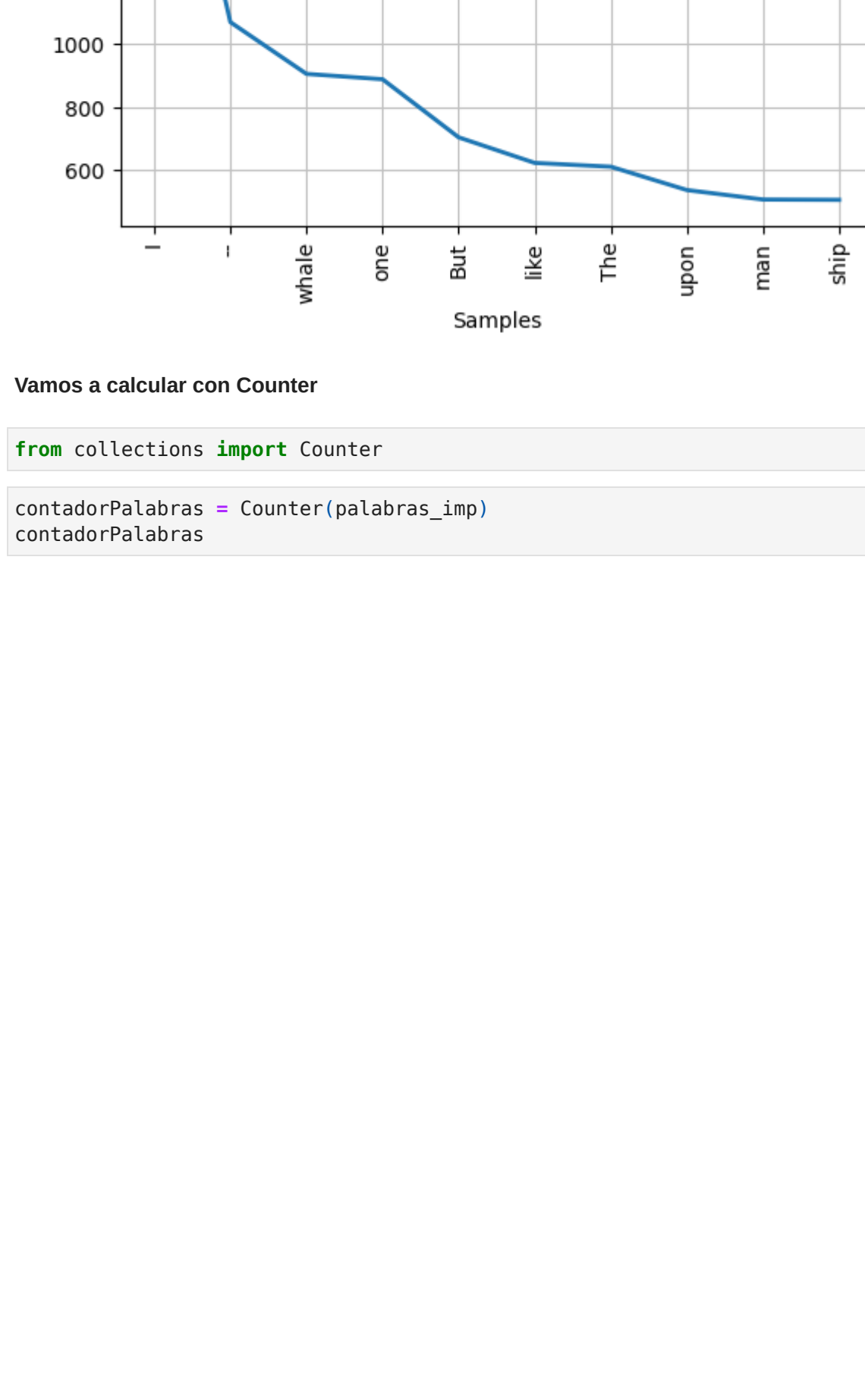
In [43]: dist2 = FreqDist(palabras_imp)

dist2

Out[43]: FreqDist({'I': 2124, '...': 1070, 'whale': 906, 'one': 889, 'But': 705, 'Like': 624, 'The': 612, 'upon': 538, 'man': 537, 'ship': 507, ...})

In [44]: dist2.plot(10)

plt.show()



Vamos a calcular con Counter

In [45]: from collections import Counter

In [46]: contadorPalabras = Counter(palabras_imp)

contadorPalabras

Counter('Mob': 84,
 'Dick': 84,
 'gave': 1,
 'Metville': 1,
 '1851': 3,
 'ETYMOL': 1,
 'Supern': 1,
 'Late': 1,
 'Consumptive': 1,
 'Supern': 1,
 'Grammar': 2,
 'School': 1,
 '1812': 1,
 '...': 1070,
 'threadbare': 1,
 'heart': 90,
 'body': 110,
 'T': 124,
 'see': 253,
 'dust': 10,
 'old': 436,
 'arched': 1,
 'grammars': 2,
 'queer': 44,
 'handkerchief': 5,
 'mockingly': 1,
 'embellished': 3,
 'gay': 13,
 'fear': 32,
 'nations': 12,
 'worried': 173,
 'loved': 38,
 'dust': 10,
 'somewhat': 43,
 'coast': 10,
 'reminded': 4,
 'mortality': 1,
 'take': 110,
 'hand': 205,
 'school': 9,
 'others': 37,
 'teach': 5,
 'name': 69,
 'fished': 133,
 'called': 116,
 'tongue': 38,
 'leaves': 38,
 'ignorance': 10,
 'letter': 12,
 'WAL': 1,
 'alone': 186,
 'alone': 37,
 'signification': 1,
 'word': 76,
 'deliver': 3,
 '1812': 1,
 '...': 489,
 'HACKLUYT': 1,
 '1812': 1,
 'Sw': 1,
 'dand': 4,
 'HWAL': 1,
 'This': 107,
 'animal': 16,
 'roundness': 1,
 'rolling': 35,
 'HWAL': 2,
 'arched': 10,
 'vaulted': 2,
 'WEBSTER': 2,
 'S': 63,
 'DICTIONARY': 3,
 'It': 310,
 'eventually': 14,
 'Dut': 1,
 'Ger': 1,
 'WALLEN': 1,
 'A': 167,
 'WALW': 1,
 'IAN': 1,
 'fall': 3,
 'waitlow': 3,
 'RICHARDSON': 1,
 'GREY': 1,
 'CETUS': 1,
 'LATIN': 1,
 'FRENCH': 1,
 'ANGLO': 1,
 'SAXON': 1,
 'DANISH': 2,
 'WAL': 1,
 'DUTCH': 2,
 'HWAL': 1,
 'ICELANDIC': 1,
 'ENGLISH': 3,
 'FRENCH': 1,
 'BALLEN': 1,
 'SPANISH': 4,
 'GREEK': 1,
 'NUEE': 4,
 'FEGEE': 1,
 'artificial': 1,
 'EXTRACTS': 2,
 'Sub': 7,
 'Librarian': 1,
 '...': 15,
 'seen': 161,
 'mere': 42,
 'burrows': 1,
 'burrower': 1,
 'grub': 1,
 'worm': 5,
 '1812': 106,
 'devil': 51,
 'appears': 7,
 'coast': 10,
 'Long': 318,
 'Vaticans': 1,
 'street': 10,
 'stall': 14,
 'earth': 46,
 'picking': 4,
 'chev': 44,
 'random': 5,
 'allusions': 7,
 'fear': 32,
 'could': 215,
 'anyways': 2,
 'sacred': 7,
 'book': 30,
 'before': 11,
 'must': 282,
 'every': 222,
 'cake': 60,
 'least': 75,
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 'sung': 10,
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 'copy': 321,
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 'wine': 12,
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 'even': 181,
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 'Sub': 16,
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 'please': 12,
 'shall': 84,
 'go': 182,
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 'barrel': 15,
 'Hampton': 1,
 'Court': 1,
 'Tuller': 3,
 '1812': 705,
 'gulp': 2,
 'hie': 1,
 'royal': 29,
 'mast': 124,
 'hearts': 29,
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 'seven': 15,
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 'heavens': 17,
 'making': 45,
 'refugees': 1,
 'pampered': 1,
 'Gabriel': 28,
 'Michael': 1,
 'Raphael': 1,
 'coming': 50,
 'Here': 49,
 '1812': 28,
 'splintered': 7,
 'together': 64,
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 'And': 369,
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 'created': 6,
 'fuzz': 1,
 'GENESIS': 1,
 'path': 10,
 'shine': 3,
 'One': 28,
 'think': 111,
 'deep': 69,
 'hoary': 2,
 'Now': 139,
 'ford': 84,
 'prepared': 12,
 'swallow': 10,
 'Jonah': 84,
 'SON': 1,
 'There': 147,
 'ships': 87,
 'TRAIL': 102,
 'has': 19,
 'made': 178,
 'play': 29,
 'therein': 5,
 'PSALMS': 2,
 'In': 237,
 'friends': 16,
 'clearing': 4,
 'seven': 15,
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 'One': 28,
 'think': 111,
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 'prepared': 12,
 'swallow': 10,
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 'ships': 87,
 'TRAIL': 102,
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Ordeno de Mayor a Menor transformando el diccionario en dataframe

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    listado_keys.append(key)  
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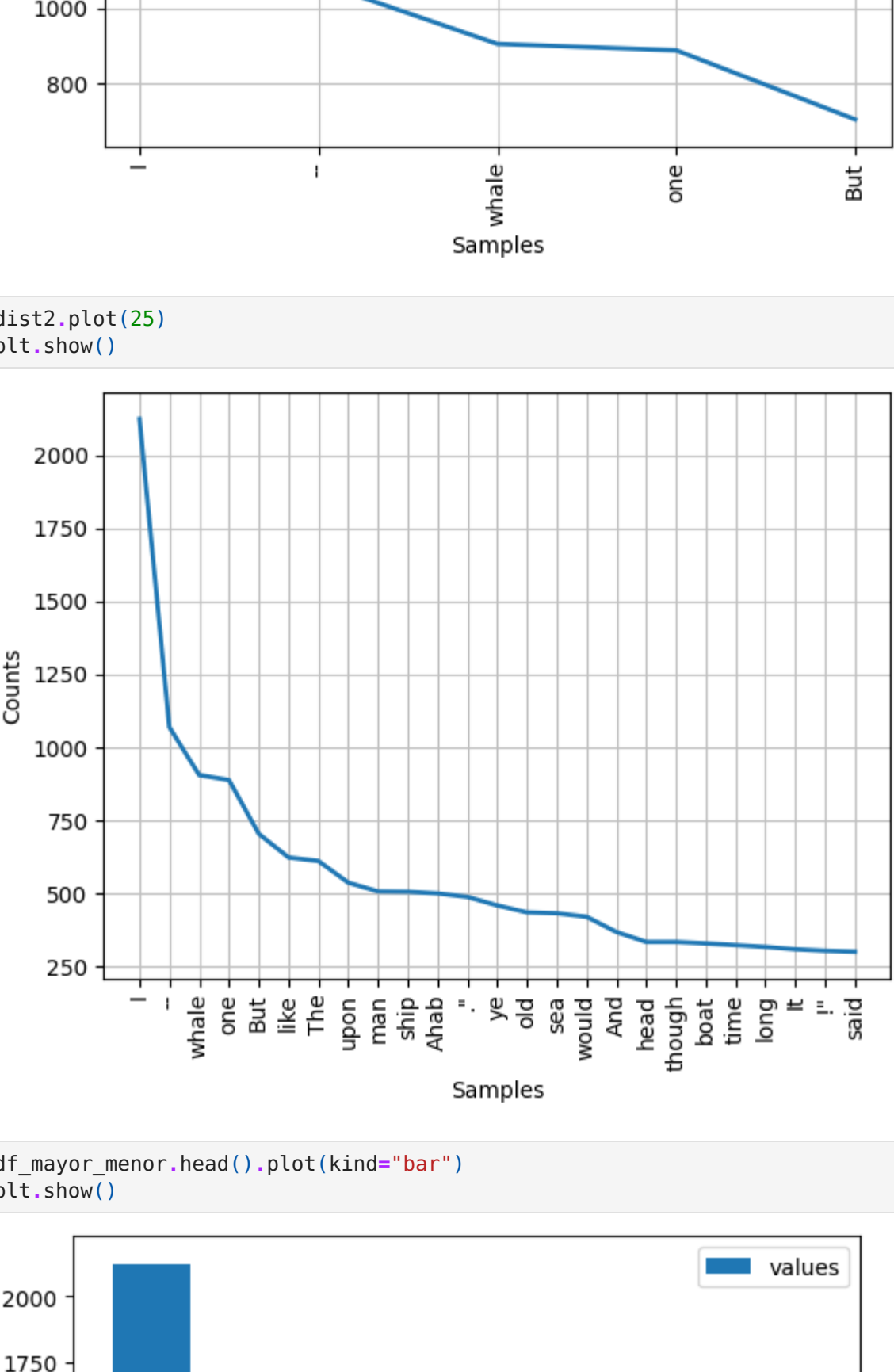
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'With',
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'spiral',
...]

```
In [48]: listado_values = []  
  
for value in contadorPalabras.values():  
    listado_values.append(value)  
  
listado_values
```

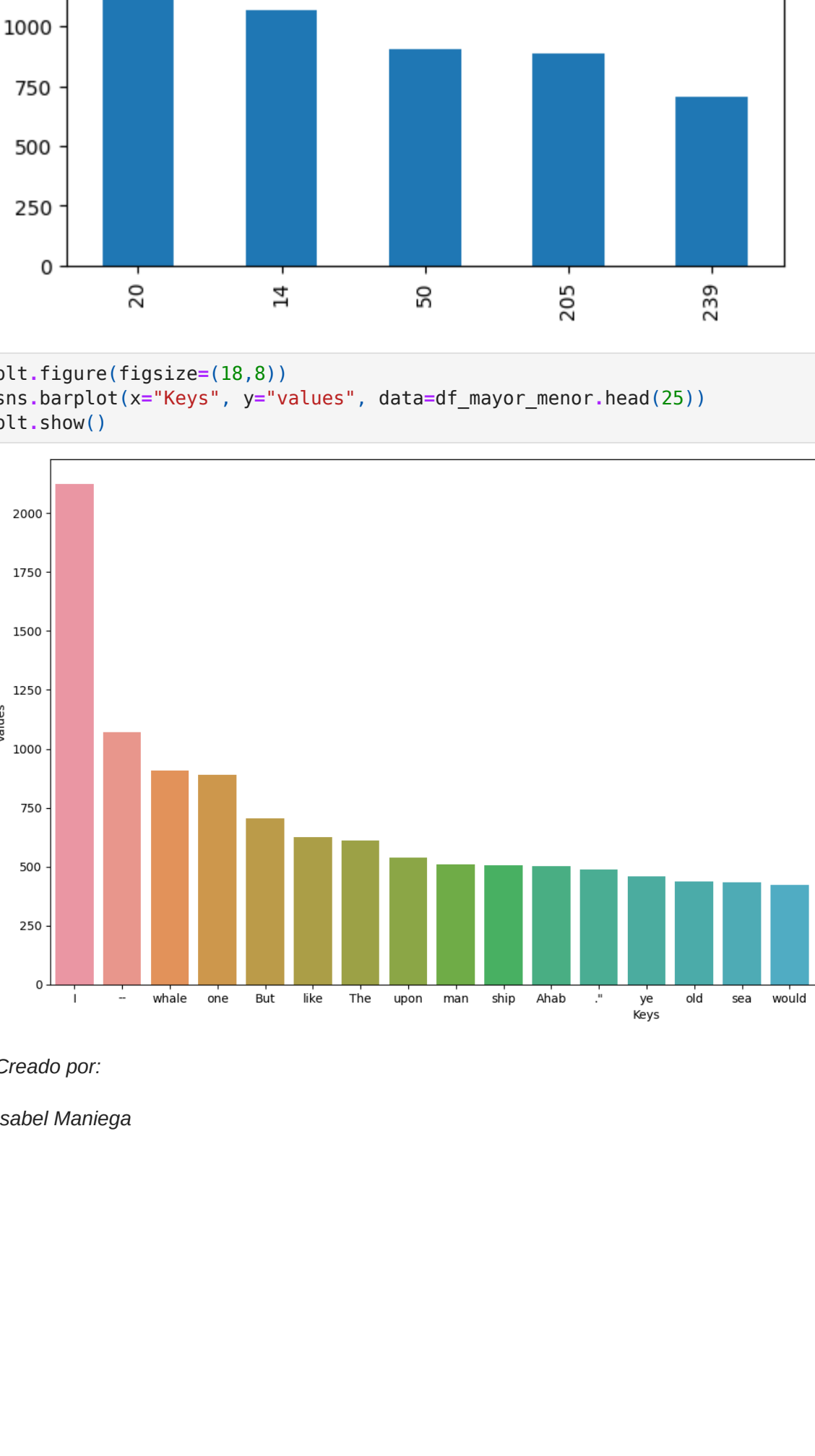

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Ploteamos los datos

In [53]: dist2.plot(5)
plt.show()



In [54]: dist2.plot(25)
plt.show()



In [55]: df_mayor_menor.head().plot(kind='bar')
plt.show()



In [57]: plt.figure(figsize=(18,8))
sns.barplot(x="Keys", y="values", data=df_mayor_menor.head(25))
plt.show()



Creado por:

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