## char-frequency-visualization

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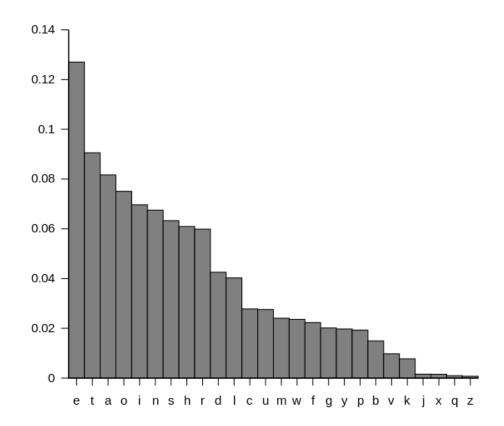
```
In [20]: from collections import OrderedDict
         import matplotlib.pyplot as plt
         %matplotlib inline
   Output of the hadoop job has the following format:
In [2]: !head part-r-00000
!
         1575
         1
#
         2
$
         2
%
         6
&
         1
(
         1796
)
         1808
         28
   Parse file:
In [24]: char_occurences = {}
         sum_count = 0
         with open('part-r-00000') as f:
             for line in f:
                  char, count = line.split()
                  count = int(count)
                  char_occurences[char] = count
                  sum_count += count
   Divide absolute frequencies by total amount of chars to get relative frequency in text:
In [31]: for key, val in char_occurences.items():
              char_occurences[key] /= sum_count
```

Sort by declining frequency:

0.02

Relative frequencies of characters. (taken from https://en.wikipedia.org/wiki/Letter\_frequency#Relative\_frequencies that are outputted when analyzing the ulysses.txt file resemble the follow-

it 'MHSBA:COWL\_?DEP)(NGR!fxjq]YzKlVU-028ZQ34956/7é';£\*Xè[]à""å\_œœè%ńùü&\*Æö...#\$@ÊÜlöööü†""+AÇÉaçeú• Characters



ing one: