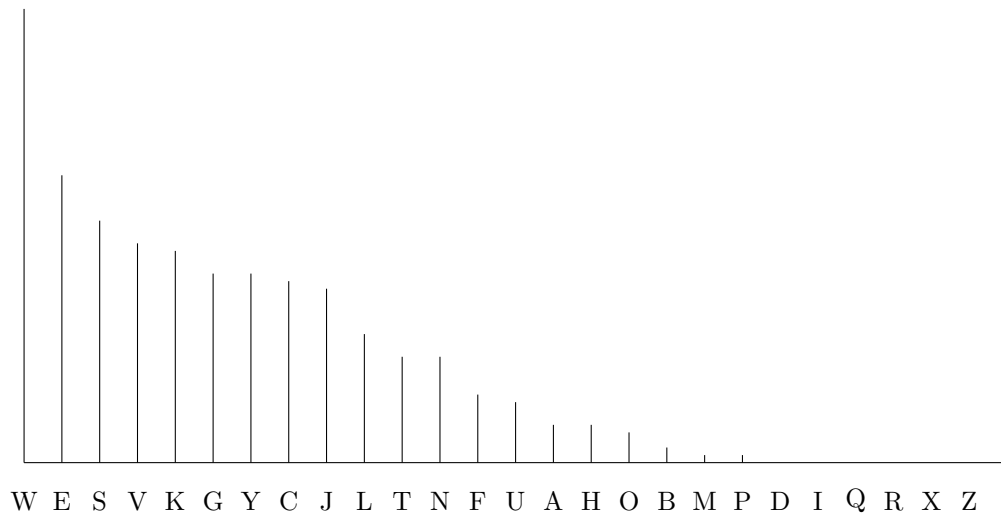
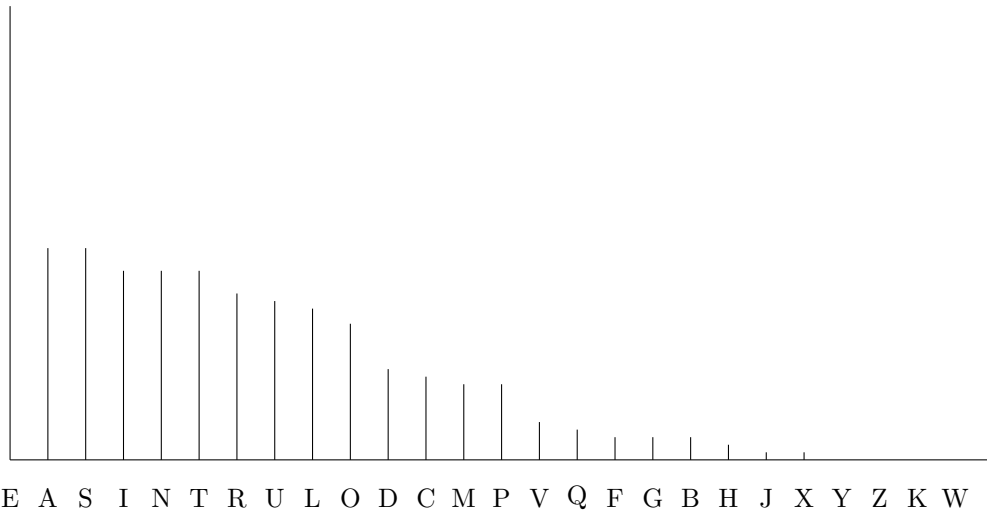


# Cryptogrammes/fr-subst-04

Nombre de caractères : 417.

Fréquences :

|          |    |       |  |          |    |      |  |          |   |      |  |
|----------|----|-------|--|----------|----|------|--|----------|---|------|--|
| <b>W</b> | 67 | 16.07 |  | <b>L</b> | 20 | 4.80 |  | <b>M</b> | 2 | 0.48 |  |
| <b>E</b> | 43 | 10.31 |  | <b>T</b> | 16 | 3.84 |  | <b>P</b> | 2 | 0.48 |  |
| <b>S</b> | 36 | 8.63  |  | <b>N</b> | 16 | 3.84 |  | <b>D</b> | 0 | 0.00 |  |
| <b>V</b> | 33 | 7.91  |  | <b>F</b> | 11 | 2.64 |  | <b>I</b> | 0 | 0.00 |  |
| <b>K</b> | 32 | 7.67  |  | <b>U</b> | 9  | 2.16 |  | <b>Q</b> | 0 | 0.00 |  |
| <b>G</b> | 29 | 6.95  |  | <b>A</b> | 6  | 1.44 |  | <b>R</b> | 0 | 0.00 |  |
| <b>Y</b> | 28 | 6.71  |  | <b>H</b> | 6  | 1.44 |  | <b>X</b> | 0 | 0.00 |  |
| <b>C</b> | 27 | 6.47  |  | <b>O</b> | 5  | 1.20 |  | <b>Z</b> | 0 | 0.00 |  |
| <b>J</b> | 26 | 6.24  |  | <b>B</b> | 3  | 0.72 |  |          |   |      |  |



# Bigrammes :

|   | W  | E  | S  | V | K  | G | Y  | C | J | L | T | N | F | U | A | H | O | B | M | P | D | I | Q | R | X | Z |
|---|----|----|----|---|----|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 2  | 3  | 8  | 5 | 13 | 5 |    |   | 9 |   | 3 | 5 | 3 | 1 | 2 | 3 | 1 | 1 |   | 2 |   |   |   |   |   |   |
| E |    |    | 2  | 1 | 4  | 4 | 11 | 4 | 5 |   | 3 | 1 | 4 |   | 1 | 1 | 2 |   |   |   |   |   |   |   |   |   |
| S | 10 | 4  | 1  | 6 | 2  | 3 | 1  | 1 |   | 3 |   | 2 |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |
| V | 10 | 13 |    | 1 |    | 1 | 2  | 4 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| K | 4  | 5  |    | 4 | 2  |   | 1  | 5 |   | 1 | 3 | 2 | 1 | 3 |   |   |   |   | 1 |   |   |   |   |   |   |   |
| G | 9  | 3  |    | 2 | 2  | 3 | 1  |   |   | 4 | 2 | 1 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| Y | 3  |    | 11 | 4 | 2  | 1 |    |   | 3 |   |   |   | 1 |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |
| C | 1  | 1  | 4  |   | 3  | 4 | 3  |   | 2 |   | 2 | 2 | 1 | 2 | 1 |   |   | 1 |   |   |   |   |   |   |   |   |
| J | 3  | 2  | 10 | 1 | 3  |   |    |   | 1 | 1 | 3 | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| L |    |    |    | 2 | 1  | 3 | 2  | 7 | 5 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| T | 3  | 2  |    | 1 |    | 1 | 3  |   |   | 4 |   | 1 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| N | 8  | 2  |    |   |    | 1 |    | 3 |   | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| F | 3  |    |    | 3 |    | 1 | 2  |   |   | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| U | 2  | 3  |    | 1 |    | 2 |    |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| A | 3  | 1  |    |   |    |   | 1  |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| H | 3  | 3  |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| O | 2  |    |    |   |    |   |    | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| B |    |    |    | 2 |    |   |    |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| M | 1  | 1  |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| P |    |    |    |   |    |   |    | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| D |    |    |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| I |    |    |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Q |    |    |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R |    |    |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| X |    |    |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z |    |    |    |   |    |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Bigrammes répétés** : BB (1, 0.24), FF (1, 0.24), GG (3, 0.72), JJ (1, 0.24), KK (2, 0.48), NN (1, 0.24), SS (1, 0.24), VV (1, 0.24), WW (2, 0.48).

Motifs abba : [303 : SWWS] [385 : EGGE]

Motifs abab : [6 : SWSW] [66 : KWKW] [91 : SWSW]