

# English Letter, Digraph, Trigraph, and Word Frequencies

The following English Letter Relative Frequencies can be found in H. Beker and F. Piper, *Cipher Systems: The Protection of Communications*, Wiley-Interscience, 1982.

Table 1: English Letter Relative Frequencies

Letter	e	t	a	o	i	n	s	h	r	d	l	c	u
Freq. %	12.7	9.1	8.2	7.5	7	6.7	6.3	6.1	6	4.3	4	2.8	2.8
Letter	m	w	f	g	y	p	b	v	k	j	q	x	z
Freq. %	2.4	2.3	2.2	2	2	1.9	1.5	1	0.8	0.2	0.1	0.1	0.1

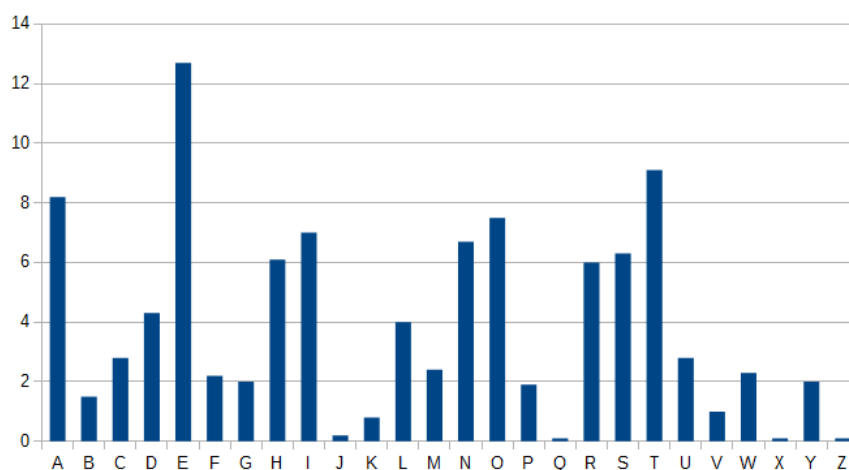


Figure 1: English Letter Relative Frequencies

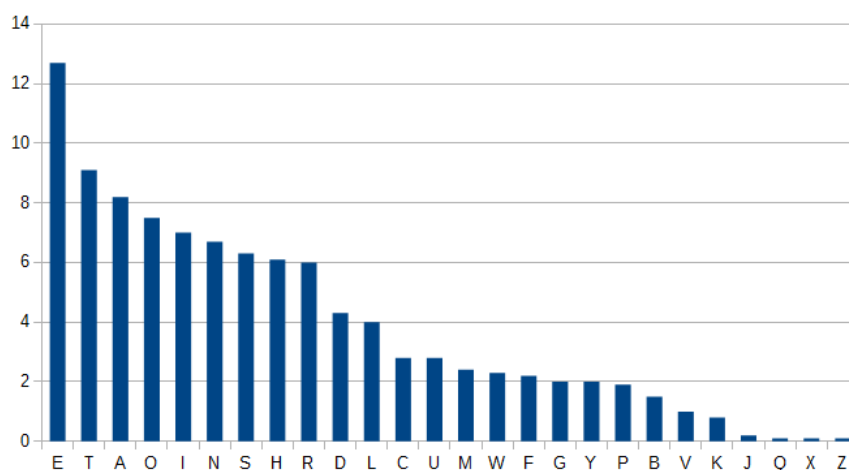


Figure 2: English Letter Relative Frequencies Sorted by Frequency

**Digraph Frequency:**

th he in er an re on at en nd st or te es is ha ou it to ed ti ng ar se al nt as le ve of me hi ea  
ne de co ro ll ri li ra io be el ch ic ce ta ma ur om ho et no ut si ca la il fo us pe ot ec lo di  
ns ge ly ac wi wh tr ee so un rs wa ow id ad ai ss pr ct we mo ol em nc rt sh po ie ul im ts  
am ir yo fi os pa ni ld sa ay ke mi na oo su do ig ev gh bl if tu av pl wo ry bu

**Trigraph Frequency:**

the ing and ion ent hat her tio tha for ter ere his you thi ate ver all ati ith rea con wit are  
ers int nce sta not eve res ist ted ons ess ave ear out ill was our men pro com est ome one  
ect ive tin hin hav ght but igh ore ain str oul per sti ine uld ste tur man oth oun rom ble  
nte ove ind han hou whi fro use der ame ide ort und rin cti ant hen end tho art red lin

**Word Frequency:**

the of to and a in that is i it for as with you on was be he this not have are at if but by from  
his or they an which we all said one had will my so has their more there no what were when  
would your her can been she out who some do about me up new him other them time than  
into like only now its then may any how could me two our very these end first just people  
after get also even most should return over such many see well know much struct good before  
same long way because make those think must where down int here being us little did last