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Entropy 2020, 22 (2), 179; Received: December 2, 2019/Revised: January 31, 2020/Accepted: February 1, 2020/Posted: February 5, 2020 is well known, from Empronic evidencies, that the distribution of the Frequency Word of almost all texts is described by the Zipfan Law, at least approximately. Following Stephens and Bialek (2010), we interpret the frequency of any word as due to the potentials of interaction between their constituent letters. In fact, the principle of Jaynesã ¢ Â® mother's entropy with the restrictions given by each two -letter marginal distribution leads to Boltzmann distribution for word probabilities, with a similar function of the energy given by the sum of the potential pair (two letters) all for all. The so -called improved iterative scaling algorithm allows us to find the potentials of two -letter empathic marginals. We considerably expanded the results of Stephens and Bialek, applying this formalism to words with six letters of the English subset of the newly standardized gutenberg corpus project. We think the model is able to reproduce edadi uo]81[augnÂl Ã o£Ã§Ãaler me etneopxe od rolav on edadilibairav amugla adartnocne ioF .siod ed onrot me etneopxe mu moc ,aicnªÃtop ed iel ed acitsÃlibaborp assam o£Ã§Ãnuf amu rop atircsed res edop sarvalap ed sopit sod aicnªÃ¼Ãqerf a euq amrifa iel ad acitsÃugnil o£Ãsrev a ,missa e ,)arvalap ad atulosba aicnªÃ¼Ãqerf a ,sarvalap sartuo me(odutse me otxet on mecerapa euq eled snekot ed oremºÃn olep odad ©Ã arvalap ed opit mu ed âohnamatã o ,amrof asseD .)sarvalap ed sopit(sarvalap sairp³Ãrp sa o£Ãs sopurg uo sessalc e ,)otxet mu me sarvalap ed saicnªÃrroco ,ajes uo(sarvalap ed snekot o£Ãs siaudividni sotnemele lauq o arap ,]71,61,51,4 ,31,21[acitsÃugnil an sâ¢ÃfpiZ ed iel a ©Ã esseretni ralucitrap eD .)ratnemelpmoc avitalumuc o£Ã§Ãiubirtsid a arap mu ed omix³Ãrp etneopxe mu odnes abaca ossi ;edadilibaborp ed assam o£Ã§Ãnuf a arap(siod ed omix³Ãrp etneopxe mu moc aicnªÃtop ed iel ed o£Ã§Ãiubirtsid amu rop sohnamat ed axiaf amugla me atircsed meb sonem uo siam ,ednarg etnemamertxe edadilibairav amu artsom setniutitsnoc sotnemele sues ed oremºÃn od somret me sopurg sod ohnamat o ,sosac sesse sodot mE .]11,01,9[acisºÃm ©Ãta e]8[ralulec aigoloib ,]7,3[seµÃ§Ãacinumoc ,]6,5[aigoloce an m©Ãbmat e ;]4[saserpme rop sodatartnoc sodagerpme moc ,aimonoce an ;]3[seµÃigiler s Ã odnatnuj es setnerc moc ,aigoloicos an ;]2[meviv edno aliv uo edadic Ã sodagil so£Ãdadic moc ,aifargomed an odataler iof iÃJ .]1[sopit uo sessalc setneredif me sodapurga res medop euq siaudividni sotnemele rop sotsopmoc soxelpmoc sametsis sotium me egreme euq o£Ãrdap mu ©Ã afpiZ ed iel A .sadinifed meb sacitsÃtatse siel meuges o£Ã§Ãaretni ed laicnetop ed seµÃ§Ãiubirtsid sa otnauq sartel saud ed sacirÃpme sianigram seµÃ§Ãiubirtsid sa otnat euq somirbocsed ,otudorpbus omoC .sarvalap sad sedadilibaborp sa revercsed arap adasu ©Ã arup acisÃf-acitsÃtatse aruturtse amu ,amrof asseD .leviÃredisnoc o£Ãsrepsid artsom siaudividni sarvalap ed edadilibaborp a sam ,oditbo ©Ã ¢Ã ¢ÃfpiZ ed redop ed iel ad lareg emiger o :seµÃ§Ãatimil samugla moc sam ,iel Speakers [19], but not at the length of the text [20,21] or in the precise definition of the word (ie, word forms) word) Lemmas [20]). We clarify that (what we call today) Zipfa’s law was discovered more than 100 years ago by Estoup [22] and formalized mathematically by the renowned physicist E. Condon in 1928 [23]; Zipf’s subsequent rediscovery and labor-intensive [24] is what made the law so well known.There are many attempts to provide a mechanism for this curious law [25,227]. Thinking about the generation of texts, we can cite the typing monkey typing, also called intermittent silencing [28] (criticized in [29]), the principle of least effort [30,31,32], the reduction of sampling space [33,34] and the optimization codification [35]. The most general mechanistic models for Zipfa’s law are preferential attachment [18,36,37,38], birth and death processes [39], variations of Polya’s urns [40] and random walks in networks [41]. The existence of so many models and explanations is a clear indication of the controversial origin of the law. In addition, there have also been important attempts to explain not only Zipfan’s law, but any kind of power law distributions in nature [42,43,44,45].A different approach is provided by the principle of maximum entropy. In statistical physics it is well known that a closed system in equilibrium with a thermal bath presents fluctuations in its energy, but maintaining a constant average energy. As Jaynes [46] has shown, the maximization of Shannon entropy [47] with the restriction that the average fixed energy produces the Boltzmann factor, which states that the probability of any microstate has to be an exponential function of its energy (note that this does not mean that the distribution power is exponential, because the number of microstates as a function of energy is not necessarily Therefore, some authors have sought an analogy to the Boltzmann factor for power laws. For example, one can easily obtain a power law not by imposing a constant (arithmetic) average but a constant geometric mean [48] (assuming also a degeneration It is constant with the energy). Also, fixation fixation Noitazimixam eht ni deniatbo(sreilpitum eht ,yaw larugan ,yfitnedi ot ot swolla rotcaf ekkil-nnamztlob gnitluser eht .noitcnits he .)Devrep ton yrtemmys ,revoerom ,4 dna ,4 dna 2 Neewteb naht 3 dna 1 snoitosop neewties neew emas eht ton nna neewteb noitcaretni eht ,.e.i(noited ehtddid sidd sidd sidd sidd sidd. Sttel(smota neewteb noitcaretni eht .smota gnipserroc eht eht eht eht eht dluow srettel tneutitsnoc eht dna ,Elucelom)lanoisnemided-eno(a trow a fo ktelap stelap t ,ygot t. 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