Project number 2 (deadline : 07/03/2019)

We want to use a MCMC scheme to decipher a text (the method is described in the course). The set of characters used id set to : ['a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z','.',' ',',',',',';',' ',':',' ','?',' ','!','-',','',''','"'].

— Use various English text to calibrate the transition matrix M [1].

— Download the ciphered text at `https://math.unice.fr/~rubentha/enseignement/ciphered-text.dat`. The data is organised as a sequence of character (one character per line). Propose your version of the original text (use the MCMC scheme explained in the course).

— Write a report explaining your approach and including the code you produced. The report has to be in pdf and sent by e-mail on the deadline (or before). You can work with other students but you have to give me one report per student.

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1. You can use novels from `https://www.gutenberg.org/wiki/Main_Page`