Assignment 3

L445 / L545

Due Wednesday, February 22 (changed from original)

Note that you may work in pairs for this assignment and turn in only one set of files for that pair.

1. Using foma, implement your Japanese FST from the last assignment.

2. Using foma, implement the Soundex algorithm you wrote in the last assignment.

3. Using foma, complete one of the exercises of your choice under Additional exercises at http://www.stanford.edu/~laurik/fsmbbook/home.html
   - Note that some exercises build from exercises which feature solutions in xfst
   - Note that the xfst syntax should more or less be the same as with foma

   (a) Following our discussion of composition from Roark & Sproat, rephrase the Syllabify rule, such that represents a transducer which composes on top of Finnish words.
   (b) Describe the alterations to your transducer (or series of transducers) which must be made to account for the more complicated version of Finnish vowels given on this page. (Note: you are not being asked to implement this.)