

## Assignment 5: Understanding Recursive Constraint Demotion

Due: Oct. 21

- Download this week's perlscripts file from the website, and "read" RCD.p1 to understand how it implements Tesar & Smolensky 1999
  - Try running it on the accompanying text files, to make sure it yields the "right" results for each (that is, understand why it yields what it yields)
  - Modify RCD.p1 to do ONE of the following:
    1. Incorporate the non-persistent "initial state" approach described by T&S, §4.4 ( $\mathcal{M} \gg \mathcal{F}$ )
    2. Calculate the r-measure of the final grammar
- ☞ HINT: you will need to modify the format of the input file to tell the learner which constraints are  $\mathcal{M}$  vs.  $\mathcal{F}$ ; there is no way for it to infer this