

# 1 Trajectories

Moving averages of N/V stress vs. time are plotted below for the stress data in `nvData_0110.csv`. To represent averages of reported stresses on a scale, we need to map reported stresses  $s$  as numbers  $f(s) \in [1, 2]$ . Here we use

$$f(1) = 1, \quad f(2) = 2, \quad f(1/2) = f(2/1) = f(1.5) = 1.5$$

Noun trajectories are in blue, and verb trajectories in red. Let  $\bar{f}_N(t, w)$  be the average of  $f(s)$  for the N form of  $w$ , over all British dictionaries for which  $f(s) \neq 0$  in the window  $(t - 30, t + 30)$ ; the point  $(t, \bar{f}_N(t, w))$  is plotted if there are 3 or more such dictionaries. (And similarly for V data.)



























