Recurrence Quantification Analysis

auto-Recurrence: Symmetric recurrence plot around the LOS (Line of Synchronisation)

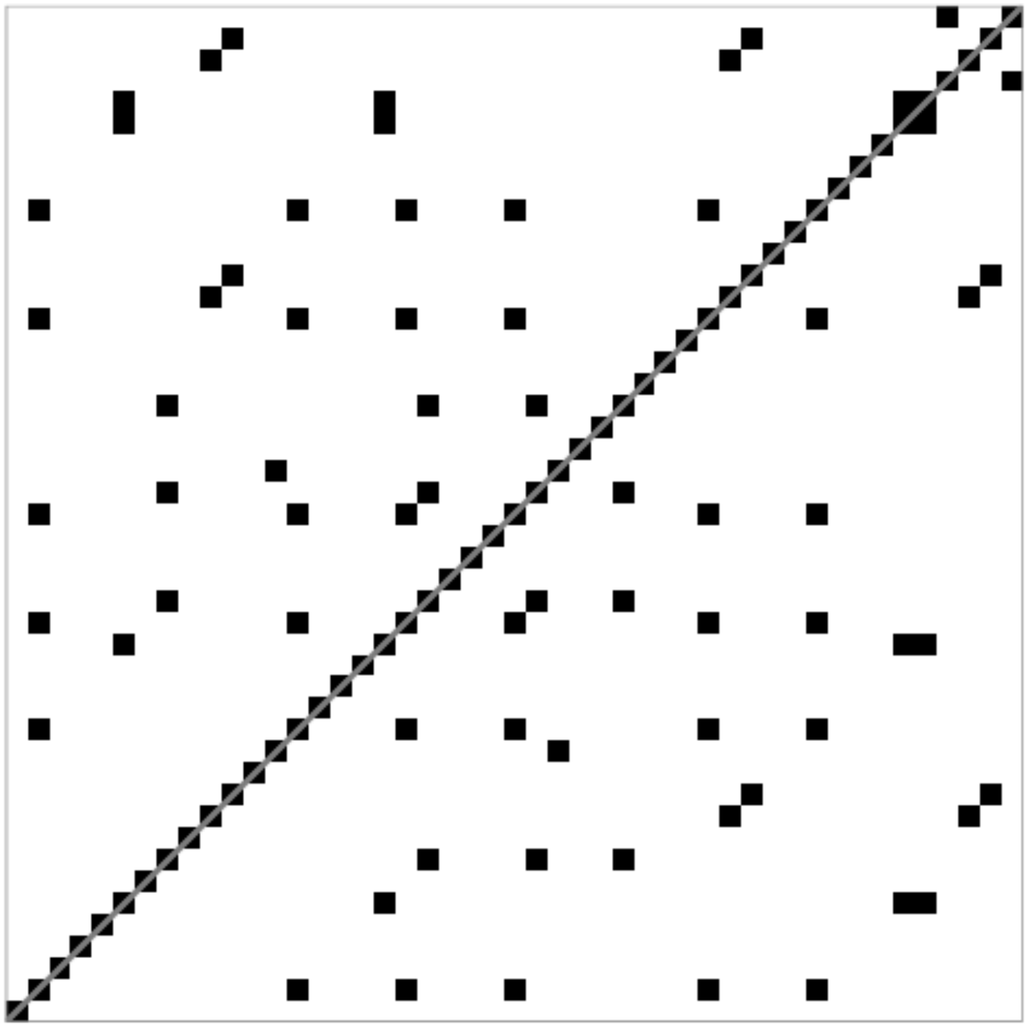
Categorical (nominal): 1 point = repetition of a category

Quantify patterns of recurrences:

Recurrence Rate (RR): Proportion actual recurrent points on maximum possible recurrent point (minus the diagonal):

$70 / (47^2 - 47) = 0.032$ (3.2%)
$35 / ((47^2 - 47) / 2) = 0.032$ (3.2%)

Recurrence Matrix / Recurrence Plot



Recurrence Quantification Analysis

Diagonal lines ➡ repetition of any pattern:
“de wandelwagen” is recurring 2 times

Determinism (DET): proportion recurrent points that lie on a diagonal line

8 / 70 = 0.114 (11.4%)
4 / 35 = 0.114 (11.4%)

Vertical lines ➡ recurrence of exactly the same value:
“jan jan”

Laminarity (LAM): proportion recurrent points that lie on a vertical line

4 / 70 = .057 (5.7%)
2 / 35 = .057 (5.7%)

Recurrence Matrix / Recurrence Plot