

STRESS

- # How is a configurations' Stress value to be interpreted?
- # What is the “real” or “best” dimensionality? (Shepard's law)
- # If data are noisy, can n-mMDS recover metric information? (*Compression factor: #data > > [x2] #parameters [p x r]; Beware Degeneracy!*)

Evaluation of Stress

- ! **Number of points** ($> p > \text{info} > \text{higher stress}$)
- ! **Dimensionality** ($> r$, easier to fit $> \text{lower stress}$)
(p-1 metric; p-2 non-metric: trivial)
- ! **Type of Stress** (raw $> \text{normalised}$; $S_2 > [. \times 2]$; s-stress $> \text{stress}$ [s-stress based on d^2 , not d])
- ! **Type of monotonicity** Guttman d^* . Kruskal d^v
- ! **Tie-ing approach** Secondary/equivalence $> \text{Primary/indifference}$

Paradigm (most general basis):

$\text{Stress}_1 (d^v)$ based on primary ties