

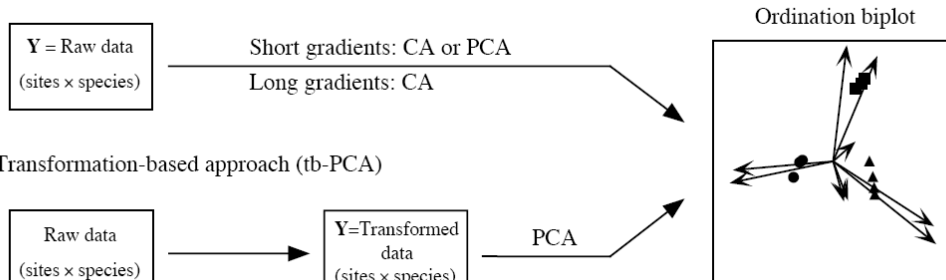
Methods of ordination analysis: an overview

(based on Šmilauer & Lepš 2014, expanded for other methods)

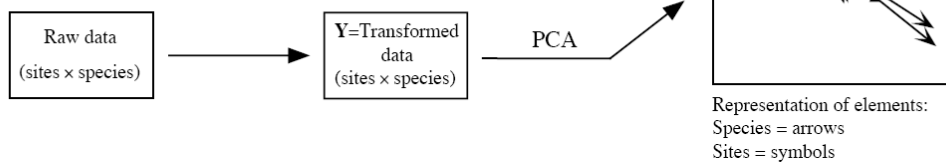
	<i>raw-data-based</i>		<i>transformation-based</i>	<i>distance-based</i>
	<i>linear</i>	<i>unimodal</i>		
<i>unconstrained</i>	PCA (Principal Component Analysis)	CA, DCA (Correspondence Analysis, Detrended Correspondence Analysis)	tb-PCA (transformation-based Principal Component Analysis)	PCoA (Principal Coordinate Analysis) NMDS (Non-metric Multidimensional Scaling)
<i>constrained</i>	RDA (Redundancy Analysis)	CCA (Canonical Correspondence Analysis)	tb-RDA (transformation-based Redundancy Analysis)	db-RDA (distance-based Redundancy Analysis)

Unconstrained ordination analysis: three alternative approaches

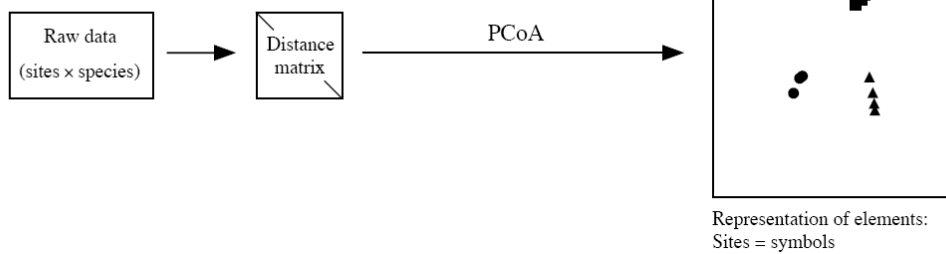
(a) Classical approach



(b) Transformation-based approach (tb-PCA)

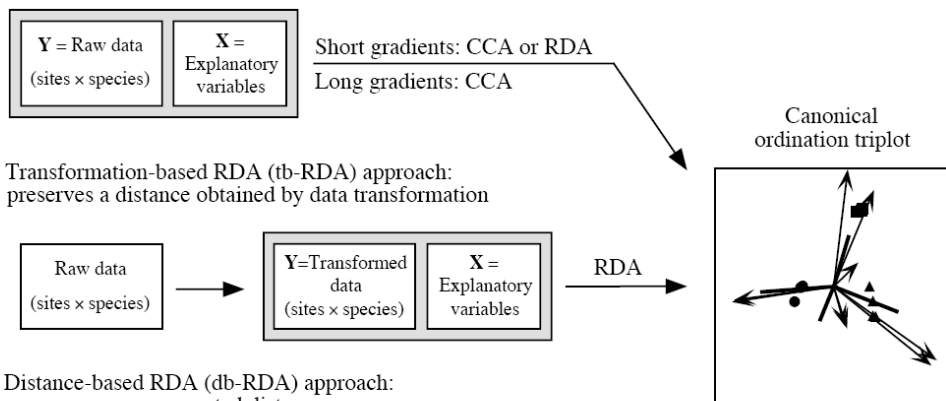


(c) Distance-based approach (PCoA)

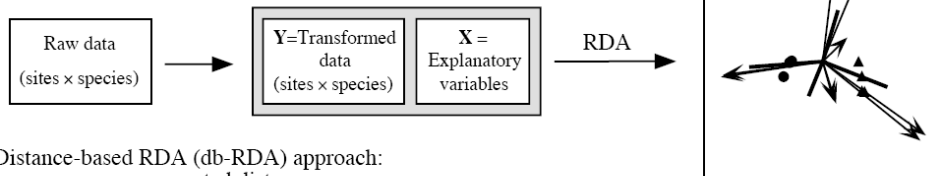


Constrained ordination analysis: three alternative approaches

(a) Classical approach: RDA preserves the Euclidean distance, CCA preserves the chi-square distance



(b) Transformation-based RDA (tb-RDA) approach: preserves a distance obtained by data transformation



(c) Distance-based RDA (db-RDA) approach: preserves a pre-computed distance

