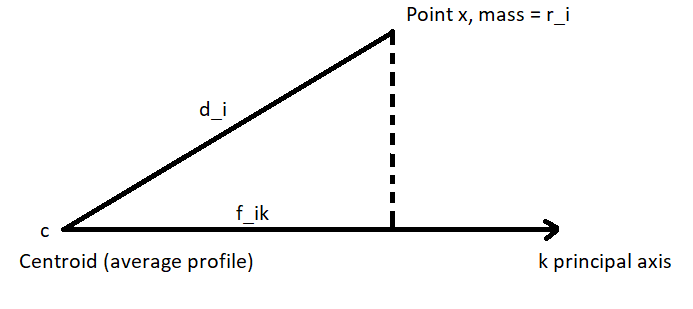
Some Concepts of CA:



Total inertia of all points (Total variation) =

Inertia is the weighted average of the squared χ2-distances between the row profiles and their average profile, where the weights are the row masses.

Inertia of point i =

Inertia contribution of point i to k-axis=

Contribution, ctr =

The contribution of the row along axis k.

Squared correlation, squared cosine, is =

Squared correlation: the contribution of axis k to the corresponding inertia of point i.

**Quality of representation**: The sum of squared correlations for a point.