

Ordination Result #53 — Analysis Report

Generated 2026-09-21 02:38:27 · 1 run(s) · CAT-G Data Analyzer

1. pcoa (#53)

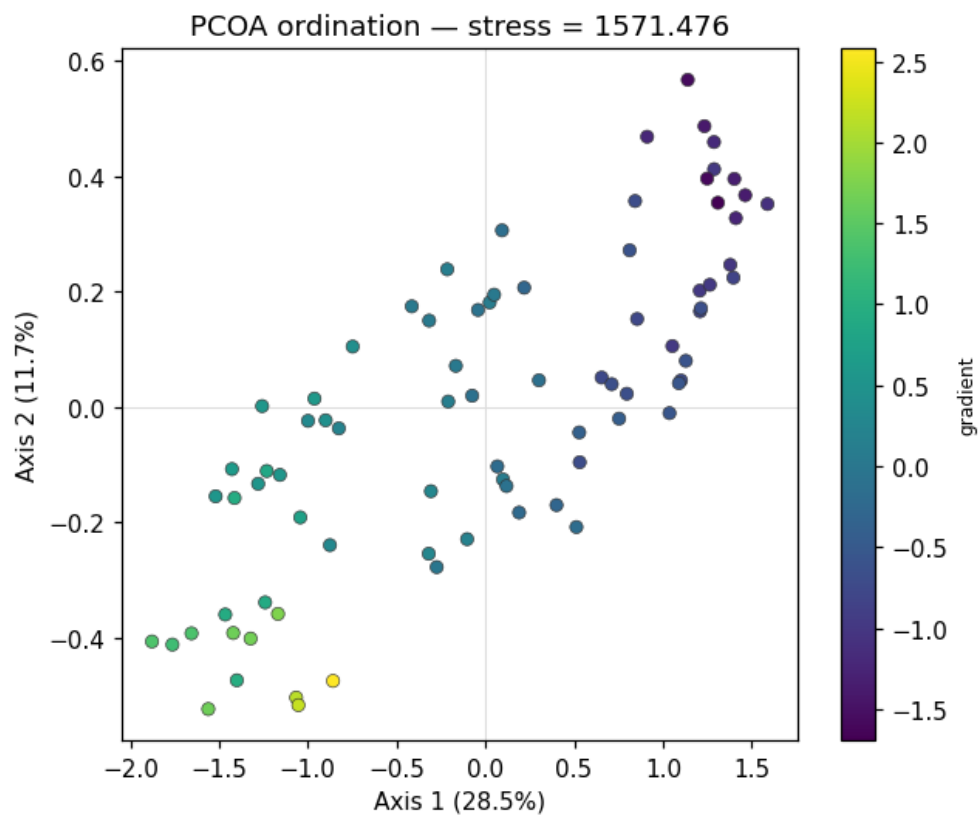
2026-09-21 02:17:05 · ordination · status: completed

The first two PCOA axes capture 40.2% of the total variance in the data.

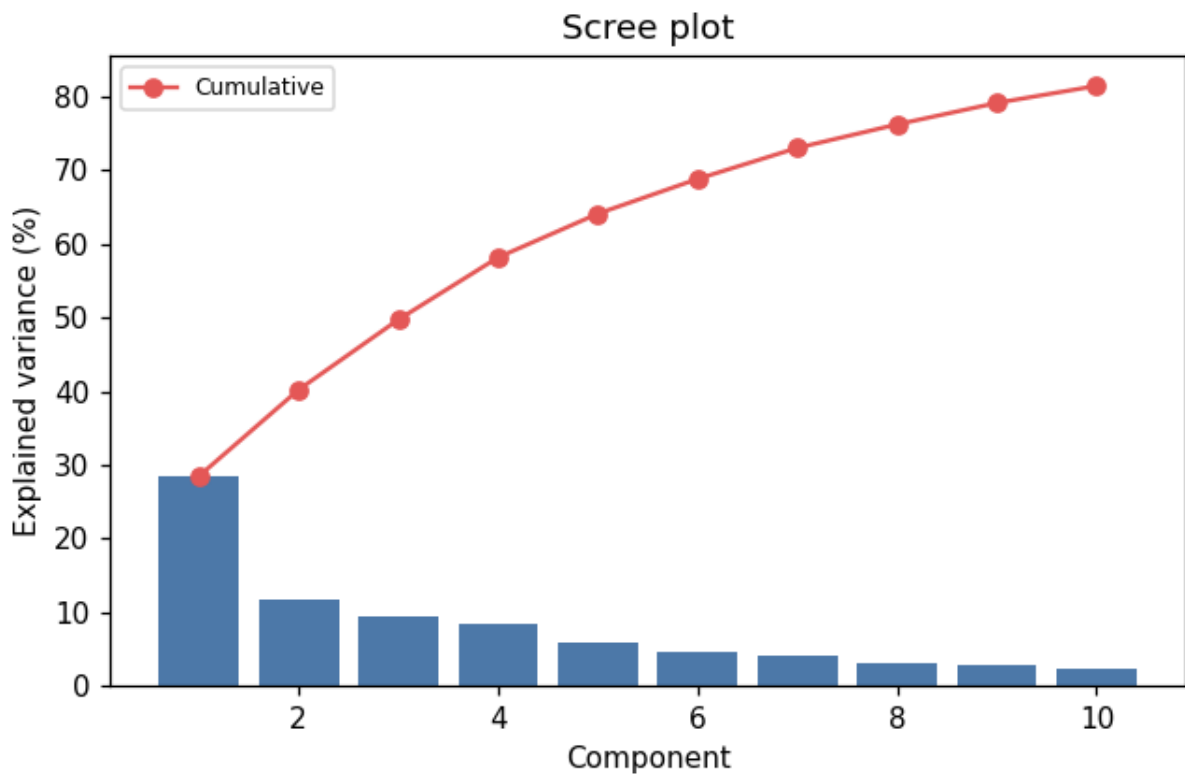
stress	1571.47598
metric	braycurtis
n_components	3
method	pcoa
n_rows	80
n_dropped	0
color_col	gradient

explained variance

Axis	Fraction	Cumulative
Axis 1	0.284662	0.284662
Axis 2	0.117255	0.401917
Axis 3	0.095184	0.497101
Axis 4	0.084368	0.581468
Axis 5	0.059372	0.64084
Axis 6	0.047123	0.687963
Axis 7	0.042133	0.730096
Axis 8	0.031862	0.761958
Axis 9	0.029184	0.791142
Axis 10	0.023131	0.814273



ordination scatter



scree

Method & Provenance

method	Ordination — PCoA
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engine	Python · scikit-learn 1.8.0
datasets	gallery — example_ordination.csv
started	2026-09-21 02:17:05.684714
permanent link	https://cat-g-omxpert.wishartlab.com/results/by-token/e7a09c01ffc64b94910ff6cb8319a

Parameter	Value
ordination_method	pcoa
method	pcoa
feature_cols	gradient, f1, f2, f3, f4, f5, f6, f7, f8
n_components	3
color_col	gradient

Command history

```
# python
# Classical MDS on distance matrix

# python
from app.services.ordination_service import run_ordination

# python
coords = run_ordination(df, method='pcoa', n_components=3, distance_metric='bray_curtis')
```