Experiment: moreRoundsVaryTemperature

Summary

- Shows that the new linear temp fn does improve over time - as in it is stable.
- We need to improve the algo, but the linear temp cooling and weighting normalisation that were added appear to work well.
- They changes definitely appear to be better than the previous exponential + absolute weight based algo.

Notable

- This was run using the new linear temp fn.

New Temp Algo

- The new temp fn is linear
- the min max temp exposed as a param
- te min max temp can be used to control how conservatively we accept energy increases

Current Settings

- LABEL_ITERATION_RANDOM
- COOLING_PERIOD_PER_SWEEP
- SWEEP_TO_ROUND_MULTIPLIER_DYNAMIC_LABELS

Status Notes:

- Expected : I observe that the 0.01-0.0001 at 8x performs best and I still expect some misplacement at the end
- Green : I observe that the 0.01-0.0001 at 8x performs best and I am happy with the label placement
- Yellow : like expected but there are some clusters where a different config outperformed the 0.01-0.0001 at 8x
- Red : demonstrates major issue discovered during experiment
- Incomplete : some experiments were not completed, likely due to timeouts

Snapshots

- bubble_colors
- column_principal_scaled
- correspondence_analysis1
- correspondence_analysis2
- correspondence_analysis3
- correspondence_analysis9
- correspondence_analysis7
- same_titles
- multiple_tables
- logo
- logo_small_ratio
- both_mirror
- d1_mirror
- d2_mirror
- multiple_table
- multiple_table_named
- multiple_table_reprint
- multiple_table_transpose
- no_titles
- plot_filtered
- plot_labelnames
- plot_variablenames
- bubbleplot_colas_characteristics
- bubbleplot_legend1
- distance_entered
- mds_metric
- pca
- small_opaque_points
- tsne_perplexity_7
- bubblechart
- vardata_size_numeric_labeled_filtered
- equamax_plot
- equamax_reprint
- promax_reprint
- ignore_rows
- scatterplot_mass_points
- scatterplot_categorical_bubble
- scatterplot_logos2