THOMAS EAPEN · SELECTED WORK

Four ways to explore a dataset

A compact synthetic gallery preserving the original emphasis on faceting, distribution shape, annotated matrices and percentile comparisons.

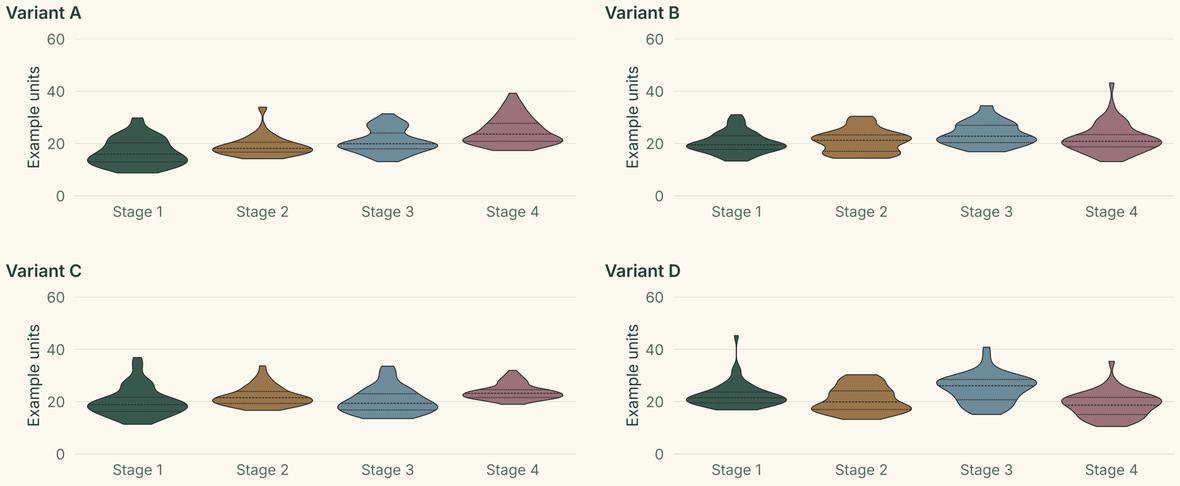
Synthetic example · independently invented data

One-page print edition · A2 landscape

01 / FACETED VIOLINS

Compare the shape of each group

Four variants, four stages and 48 observations per stage. Common axes make the small multiples comparable.

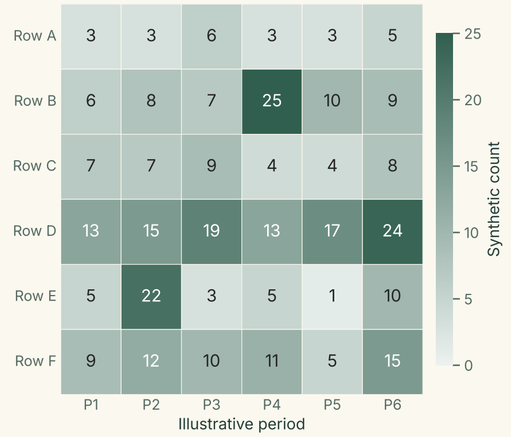


Density describes shape; inner lines show quartiles. Violin widths are normalised per group and do not encode sample size.

02 / ANNOTATED HEATMAP

Find structure in a matrix

Six invented rows across six illustrative periods. Printed values preserve the detail behind the colour.

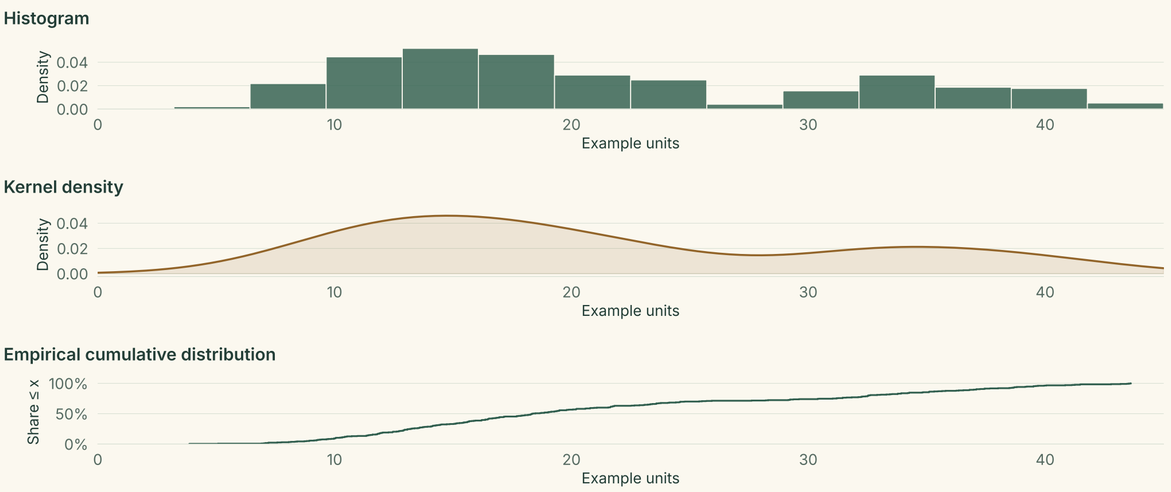


All 36 cell values are synthetic. The matrix contains 336 counts in total; colour intensity uses a common scale.

03 / HISTOGRAM · KDE · ECDF

Read one distribution three ways

The same 300 generated observations appear in all three views.

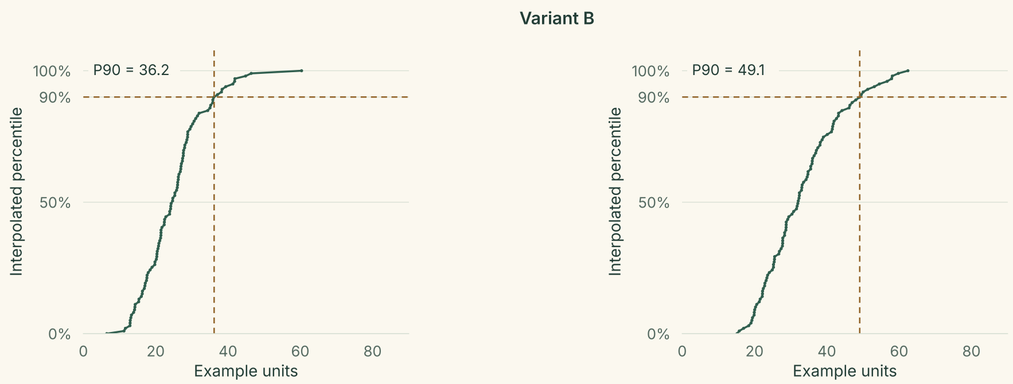


Bins show frequency density; KDE smooths with Scott bandwidth; ECDF gives the observed share at or below a value.

04 / PERCENTILE COMPARISON

Locate the upper tail

Two new samples of 100 observations, shown on common axes. Dashed guides locate each 90th percentile.



Median 24.5 · P90 36.2

Median 32.0 · P90 49.1

Plotting positions and quantiles use the same linear interpolation convention. These are illustrative distributions, not workforce benchmarks.

Four examples, complementary questions. All observations, matrix values and plotted relationships were generated independently for this gallery. Matplotlib and Seaborn render the figures; NumPy and SciPy calculate the recorded statistics. The original gallery informs chart selection and presentation only.

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New illustrative material explaining the approach. Values, configurations and results shown here are not historical workplace records.