12 From benchmark to decision

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What happens when the data are real?

Chapter status: planned. The application below has not yet been carried out. No single-cell comparison or improvement over a default method is claimed.

- Use the Chapter 10 grid to select a method and its hyperparameters.
- Apply that choice to a single-cell dataset.
- Compare against the field-default choice.
- Report a null result honestly if the benchmark-guided choice does not win.
- Closes with visualisation and honest-reporting standards: alt text, no colour-only encoding, seed disclosure, aspect-ratio discipline.