Motivation

- When working with static visualizations, it’s common to generate many versions of the same figure ("small multiples")
  - E.g., plotting time series for each species, genus, family, ...
  - For some problems, this can become unmanageable

Figure: 45 pages of small multiples isn’t very useful.
Visualization principles

▶ Linking: Combine alternative views of the same data
▶ Focus plus context: Allow quick navigation between large (context) and small (focus) scales

Figure: The main panel is the focus, while the brushed series on the bottom provides context.
My packages

- Multivariate analysis: Package and examples.
- Collections of time series: treelapse (examples within)
- Cluster centroids: Example and draft package
Interactivity in R

- **Shiny**: Web interfaces that run R scripts. See also Shiny phyloseq.
- **plotly**: Interactive versions of common plot types.
- **trelliscope**: Navigation across similar panels based on “cognostics” (summary statistics).
- **htmlwidgets**: R interfaces to JavaScript visualizations.