



Types of interaction

Filtering: only show me the data I am interested in $[F, Y_i, Sh, K]$

Selecting: mark or track items I am interested in $[F, Y_i]$

Abstract & Elaborate: show me more or less detail $[F, Y_i, K]$

Overview & Explore/Focus & Context:

overview first, zoom and filter, details on demand $[F, Sh, K]$

Connect/Relate: show me how this data is related $[F, Y_i, Sh, K]$

Reconfigure: show me a different arrangement of the data $[F, Y_i, K]$

Encode: show me a different representation of the data $[F, Y_i]$

Extraction of features: allow me to extract data that interests me $[F, Sh]$

History: allow me to retrace the steps I take $[F, Sh]$

Participation/Collaboration: allow me to contribute to the data $[F]$

Gamification: show me the data in a more playful way $[F]$

Data Selection

Selection can be about more than clicking on an object

- Selecting a region supports *brushing and linking*
- We can represent the selection by *tuple* or by *query*

Selection by query → powerful interactions, e.g.:

- Dynamic queries: using sliders, checkboxes, etc. to define the query, so it's easy to explore the data visually
- Generalised selection: using semantic structure of the data, to explore data at different levels of abstraction