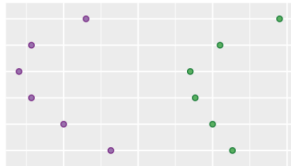


Data stories: Expanding your graphical repertoire

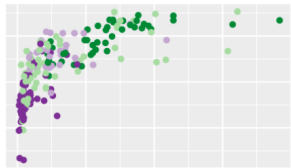
Richard Layton

Session 2, 2022-02-21

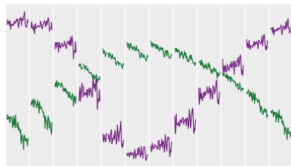
Expanding your graphical repertoire: Four main topics



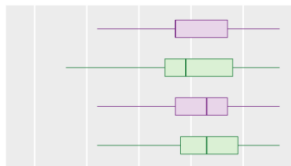
Comparing data



Revealing correlations



Showing evolution



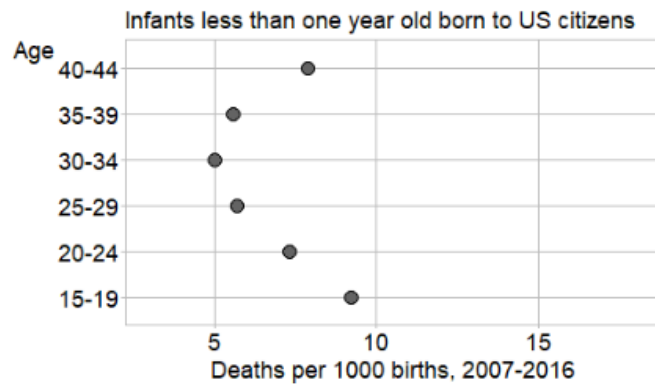
Displaying distributions

I suggest you have a printed copy of this handout to write in during the workshop. We have a number of think-write-share activities that for many people work best when thoughts are written down.

Notes

§ Comparing data

Dot plot



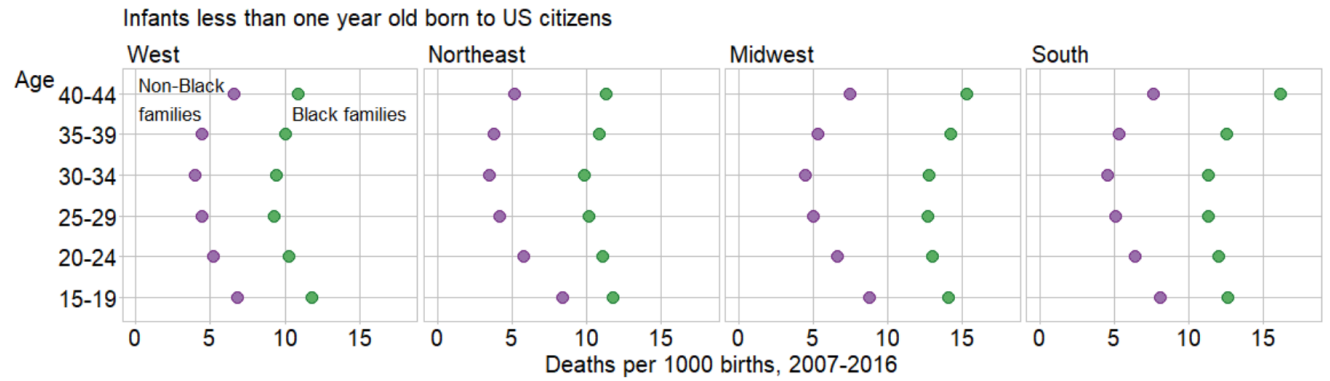
Variables + Argument → Design

Variables: (1) quantity, (1) category

Argument: Comparison

- Describe the main idea(s) this chart conveys to you.

- What questions does the chart raise?

Multiway dot chart, superposed

- Describe the main idea(s) this chart conveys to you.

Variables + Argument → Design

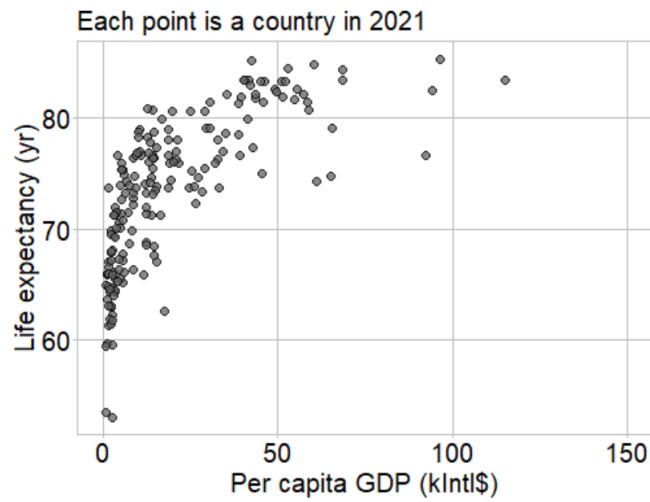
Variables: (1) quantity, (3) categories

Argument: Comparison

- What questions does the chart raise?

§ Revealing correlations

Scatterplot



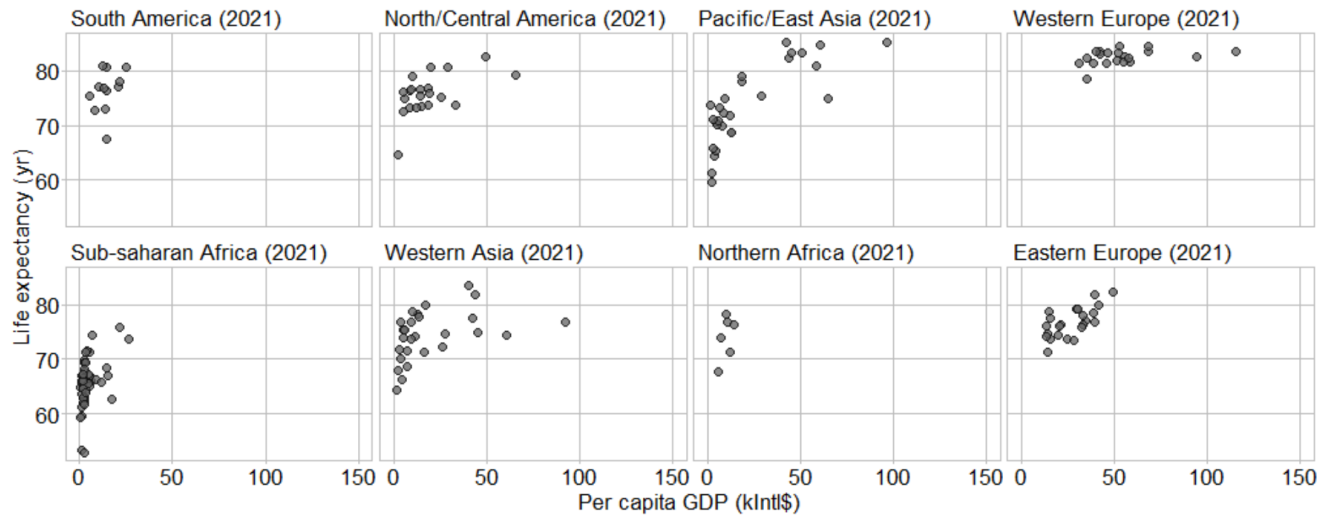
Variables + Argument → Design

Variables: (2) quantities

Argument: Correlation

- Describe the main idea(s) this chart conveys to you.

- What questions does the chart raise?

Scatterplot, faceted

- Describe the main idea(s) this chart conveys to you.

Variables + Argument → Design

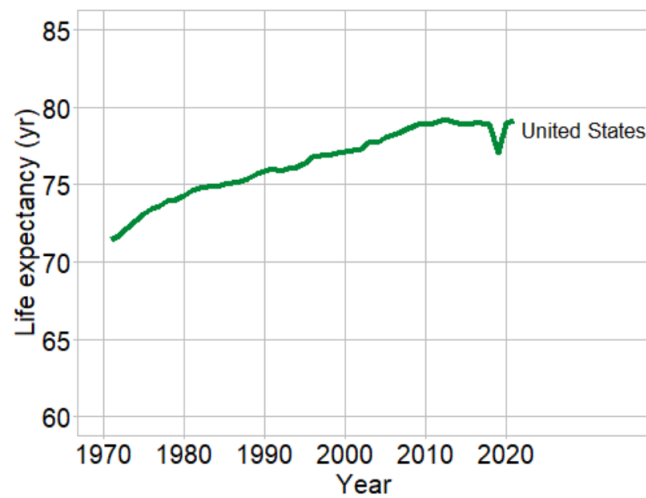
Variables: (2) quantities, (1) category

Argument: Correlation & comparison

- What questions does the chart raise?

§ Showing evolution

Time series



Variables + Argument → Design

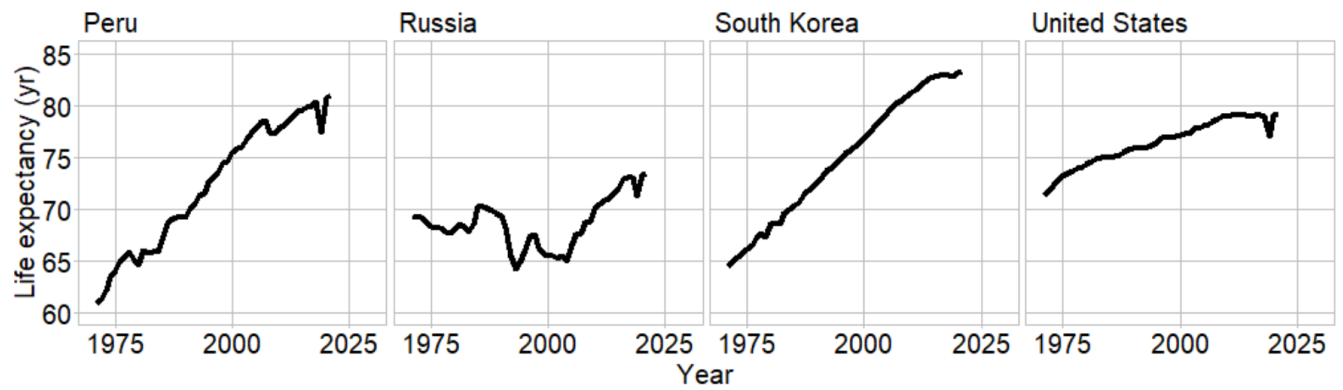
Variables: Discrete time, (1) quantity

Argument: Evolution

- Describe the main idea(s) this chart conveys to you.

- What questions does the chart raise?

Time series, faceted



- Describe the main idea(s) this chart conveys to you.

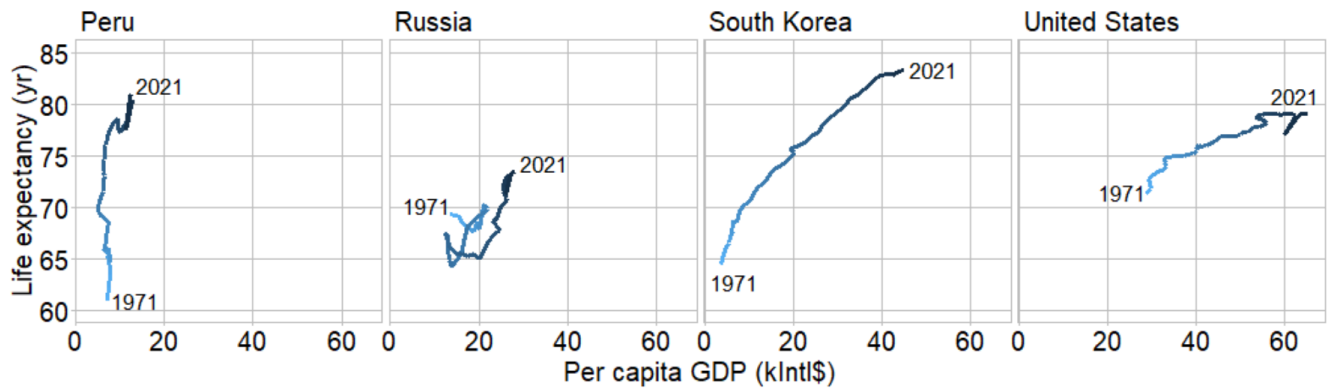
Variables + Argument → Design

Variables: Discrete time,
(1) quantity, (1) category

Argument: Evolution & comparison

- What questions does the chart raise?

Connected scatterplot, faceted



- Describe the main idea(s) this chart conveys to you.

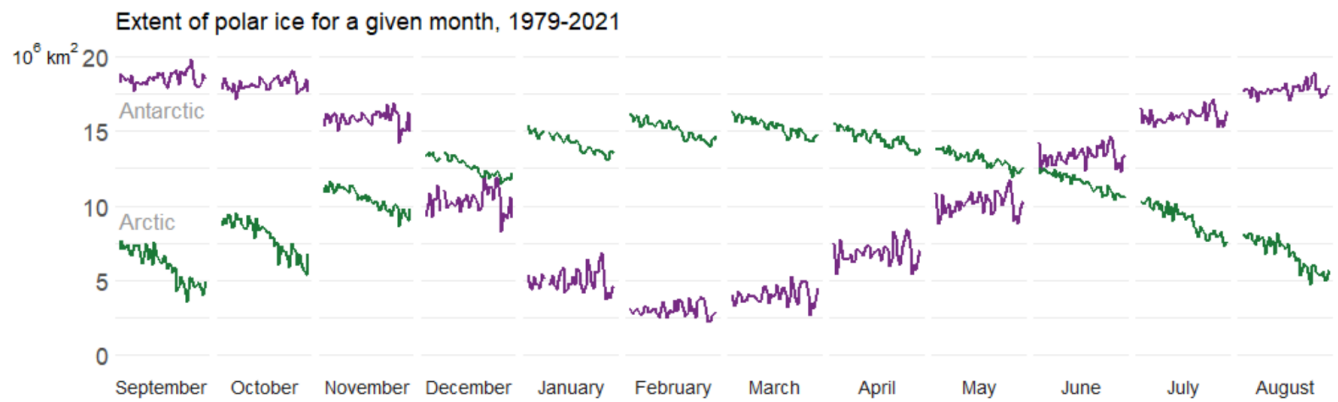
Variables + Argument → Design

Variables: Discrete time,
(2) quantities, (1) category

Argument: Evolution, correlation,
& comparison

- What questions does the chart raise?

Cyclic time series, superposed



- Describe the main idea(s) this chart conveys to you.

Variables + Argument → Design

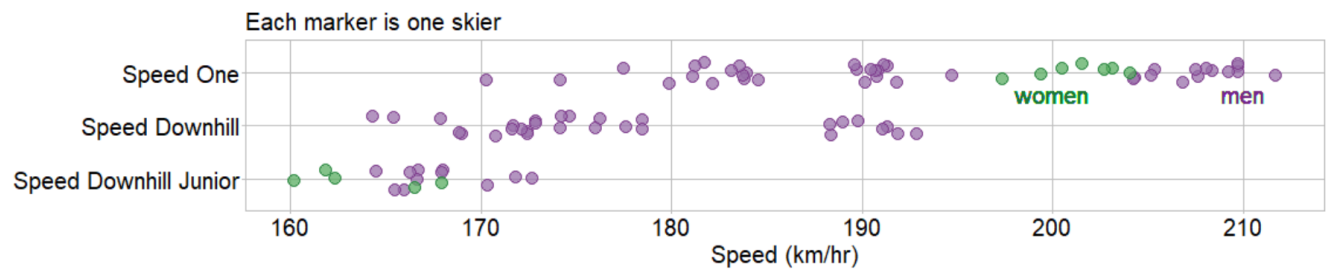
Variables: Discrete time,
(1) quantity, (2) categories

Argument: Evolution & comparison

- What questions does the chart raise?

§ Displaying distributions

Strip chart, superposed



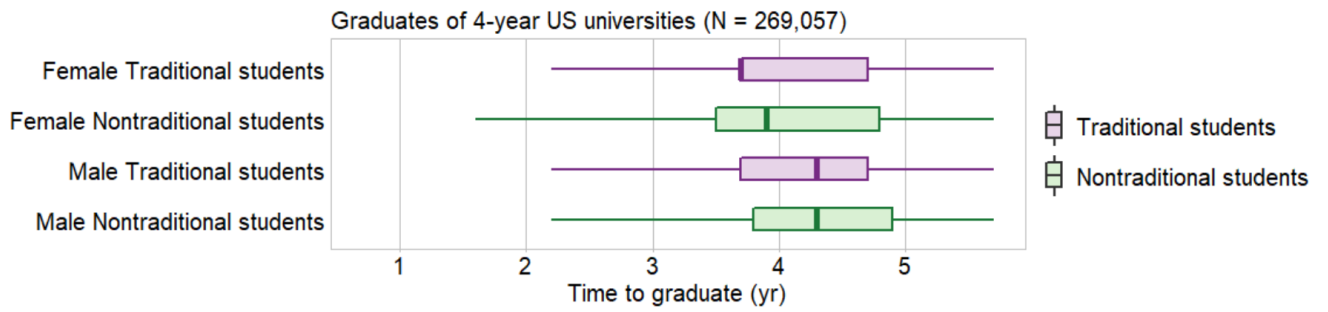
- Describe the main idea(s) this chart conveys to you.

Variables + Argument → Design

Variables: (1) quantity, (2) categories

Argument: Distribution & comparison

- What questions does the chart raise?

Box and whisker chart

- Describe the main idea(s) this chart conveys to you.

Variables + Argument → Design

Variables: (1) quantity, (2) categories

Argument: Distribution & comparison

- What questions does the chart raise?