

## 8. Figure formats, interactivity and paired comparisons

### Lecture learning goals

By the end of the lecture you will be able to:

1. Telling a story with data
2. Save figures outside the notebook
3. Visualize pair-wise differences using a slope plot
4. Create interactive ggplots charts via plotly (not on the quiz)
5. Create widget-based interactivity (not on the quiz)
6. Explain figure formats in the notebook (not on the quiz)

### Required activities

After class:

- Review the lecture notes.
- Watch this [15 min video on paired comparisons](#)
- [Section 29 on how to tell a story with data](#). It is really important to read this chapter, it has some great details on how to tell a story with several examples.

# Paired comparisons

**In 1980, roughly 40% of the world's population lived in extreme poverty, with less than \$2 per day. What is the share today?**

**A**

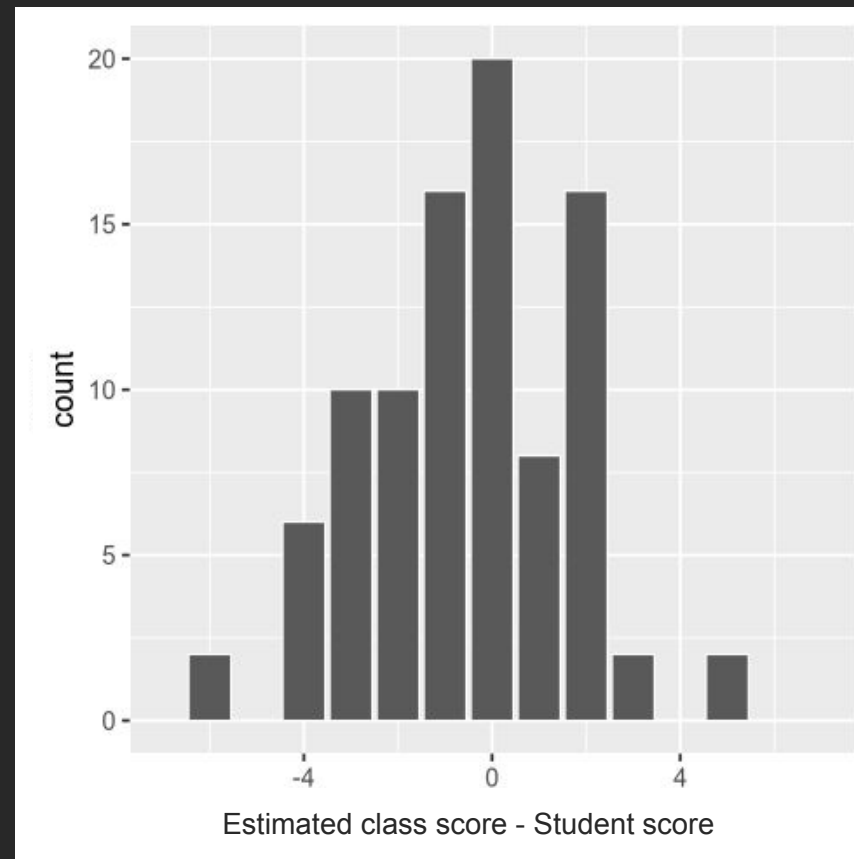
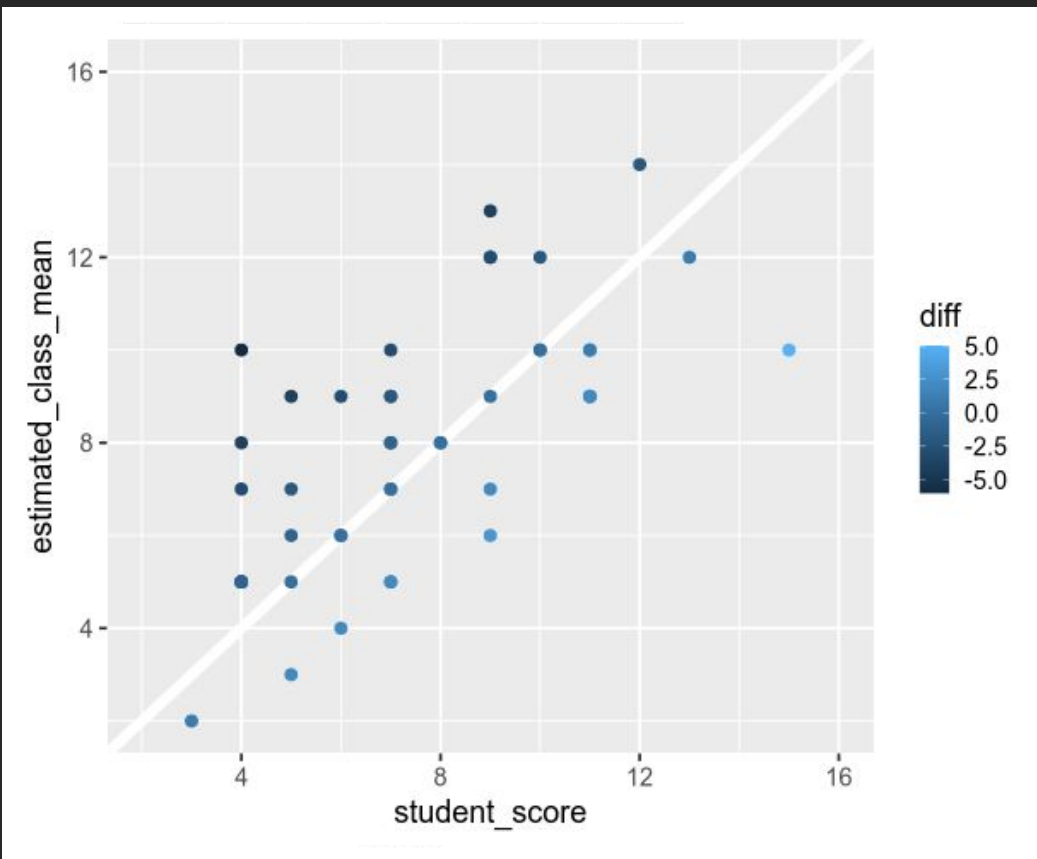
**10%**

**B**

**30%**

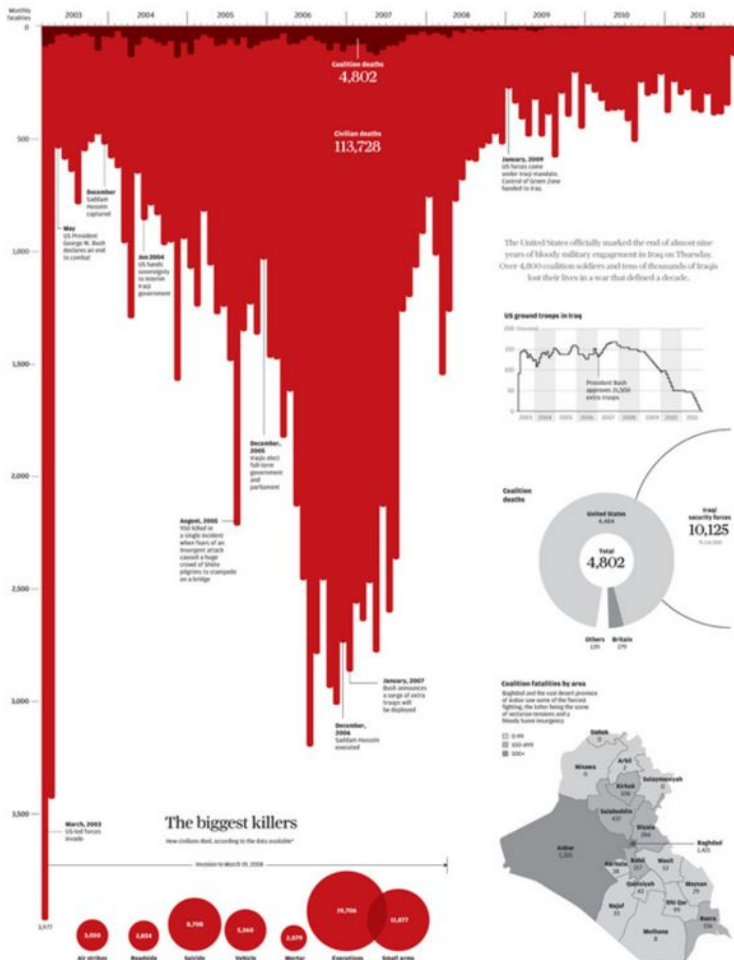
**C**

**50%**

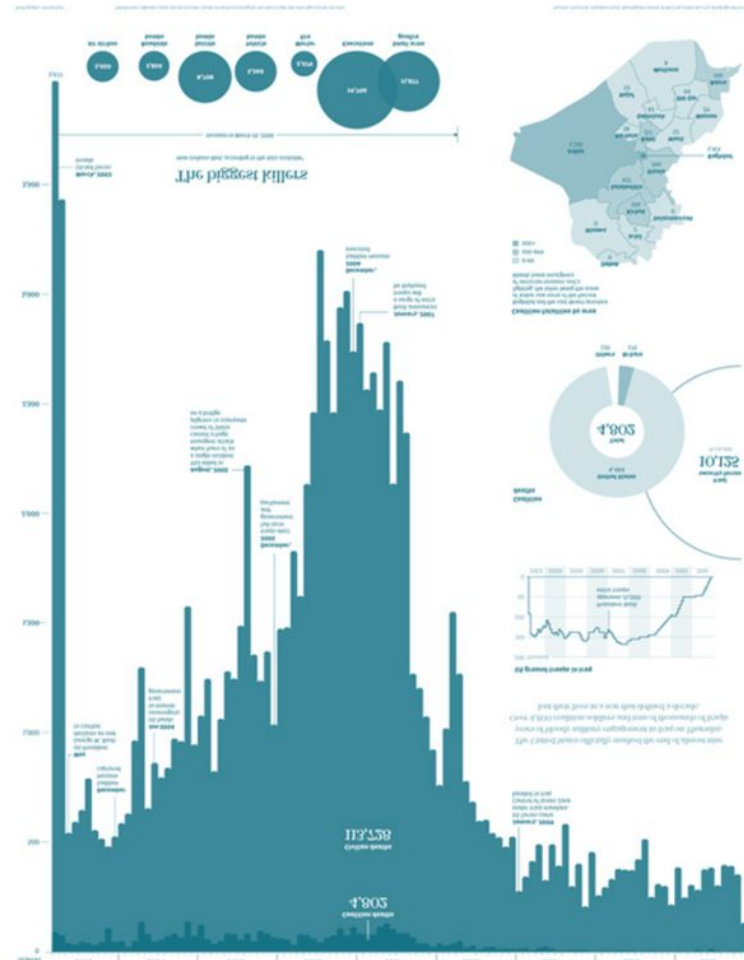


# Storytelling

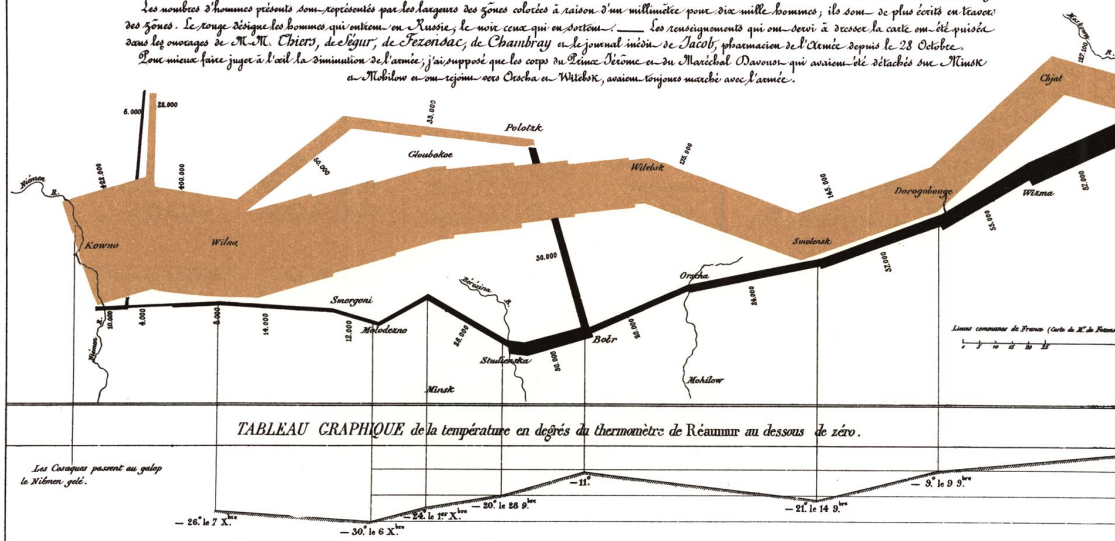
# Iraq's bloody toll



## Iraq: Deaths on the decline



Reçu par M. Minard, Inspecteur Général des Ponts et Chaussées en retraite Paris, le 20 Novembre 1869

[illegible]

*Autog. par Rognier, S. Pas. S.<sup>te</sup> Maria S.<sup>te</sup> O.<sup>me</sup> à Paris.*

## Napoleon's Russian Campaign

