- 1. Warm up: Go to twitter.com/jburnmurdoch/status/1479218302954221570 and look at the picture.
 - (a) What do you notice about it? What is your first reaction?
 - (b) Find something that you think has been done well, and something that you think is missing.
- 2. Daily Python: Download the file lab2-names.csv.
 - (a) Load it with f = open('lab2-names.csv', 'r') and data = list(csv.reader(f))
 - (b) How many letters **e** are there in the column firstname? For every string **s**, use:
 - s.count('e') to count the number of occurences of 'e' in s
 - s.lower() to make every character in s lowercase
- 3. Main task: Go to each of the following websites, explore it, and download one data set.
 - (a) Atvērto datu portāls: data.gov.lv
 - (b) European data portal: data.europa.eu
 - (c) Kaggle: kaggle.com/datasets
 - (d) *OpenfMRI:* openfmri.org/dataset

How are the data sets different? Which websites are easy / difficult to use?

- 4. Take one data set from part 3. above that has at least 100 numbers.
 - (a) Find the maximum, minimum, average values. If your data has several columns, find the min / max / avg for one column.
 - (b) Pair up with a classmate and share your data with them.
 - i. Do they find the same min / max / avg values?
 - ii. Do you see any "outliers" for your data? Discuss with your partner what that means to both of you.
 - iii. Decide which of your two data sets you prefer, and use that for part 3. below.
- 5. Take your chosen data set from part 4. above and import it into Python.
 - (a) Plot your data in two different ways. Use python-graph-gallery.com for inspiration.
 - (b) Submit your image in ORTUS.
- 6. For next week: Find a data visualization on the internet, post it in the **#labs** channel on Slack, and say what you like about it. Be sure to give the source!

Some places to start looking: Twitter #dataviz, Economist "Graphic Detail" blog