

# Good graphics checklist

## First graph

### Bananas

I find it challenging to get a clear understanding of each year from this graph.

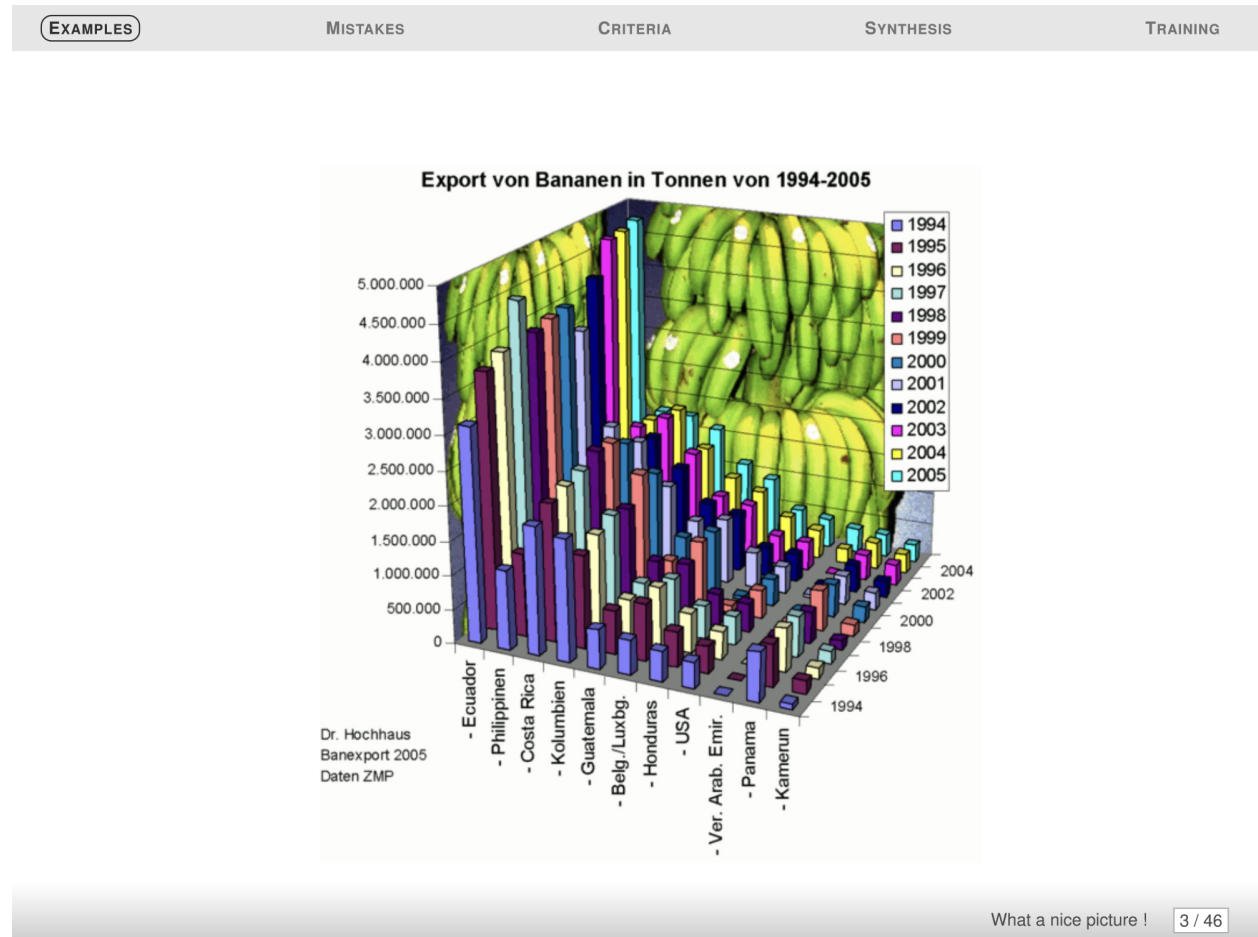


Figure 1: Bananas

### Data

- ☐ Type of graphic adapted
- ☐ Interpolation make sense
- ☒ Sufficient number of points
- ☐ Building method clear
- ☐ Confidence intervals visualized
- ☐ Appropriate steps for histograms
- ☐ Histograms visualize probabilities

### Graphical objects

- ☐ Graphical objects are readable on any support
- ☐ Standard color range
- ☐ Axis identified and labelled
- ☒ Scales units are explicit
- ☐ No ambiguity when curves cross
- ☐ Grid helps reading

### **Annotation**

- ☐ Axis are labelled by quantities
- ☐ Labels of the axis are clear, and self contained
- ☐ Units are indicated on the axis
- ☐ Axes are oriented from bottom-left to top-right
- ☐ Origin should be (0,0), if not it should be clearly justified
- ☒ No Hole on the axes
- ☒ the order's of graph/histogram bar is based on classical ordering
- ☒ Curves and Bar has legend

### **Information**

- ☒ Curves on the same scale
- ☒ Less than 6 curves
- ☒ Compare curves on same graphics
- ☐ A curve cannot be removed without reducing infos
- ☒ The graphic gives relevant infos
- ☐ If showing average, don't forget the error bars
- ☐ It is not possible to remove object without altering readability

### **Context**

- ☒ All symbols used are defined and references
- ☐ The graphics is the most appropriate representation for the data
- ☒ The graphic has a title
- ☒ The title is meaningful and self contained
- ☐ The graphic is referenced in text
- ☐ The text comment the figure

## **Second graph**

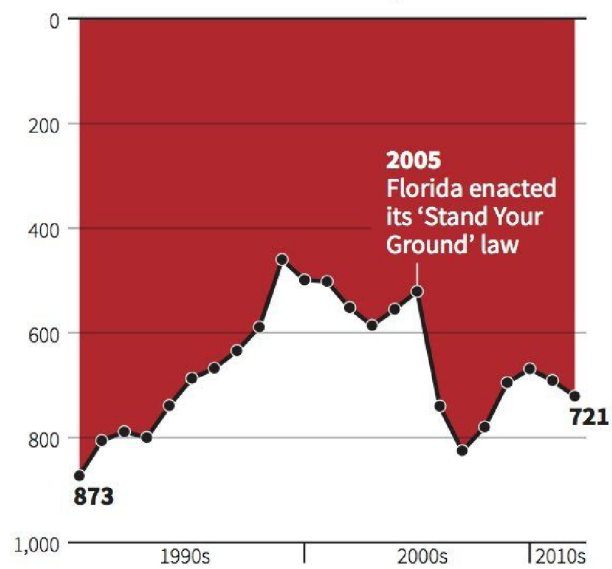
### **Death**

### **Data**

- ☒ Type of graphic adapted
- ☐ Interpolation make sense
- ☒ Sufficient number of points
- ☒ Building method clear
- ☐ Confidence intervals visualized
- ☐ Appropriate steps for histograms
- ☐ Histograms visualize probabilities

## Gun deaths in Florida

Number of murders committed using firearms



Source: Florida Department of Law Enforcement

C. Chan 16/02/2014

REUTERS

What a nice picture !

6 / 46

Figure 2: Death

## Graphical objects

- ☒ Graphical objects are readable on any support
- ☐ Standard color range
- ☐ Axis identified and labelled
- ☒ Scales units are explicit
- ☐ No ambiguity when curves cross
- ☐ Grid helps reading

## Annotation

- ☐ Axis are labelled by quantities
- ☐ Labels of the axis are clear, and self contained
- ☐ Units are indicated on the axis
- ☐ Axes are oriented from bottom-left to top-right
- ☒ Origin should be (0,0), if not it should be clearly justified
- ☒ No Hole on the axes
- ☒ the order's of graph/histogram bar is based on classical ordering
- ☐ Curves and Bar has legend

## Information

- ☒ Curves on the same scale
- ☒ Less than 6 curves
- ☐ Compare curves on same graphics
- ☐ A curve cannot be removed without reducing infos
- ☒ The graphic gives relevant infos
- ☐ If showing average, don't forget the error bars
- ☒ It is not possible to remove object without altering readability

## Context

- ☒ All symbols used are defined and references
- ☐ The graphics is the most appropriate representation for the data
- ☒ The graphic has a title
- ☒ The title is meaningful and self contained
- ☒ The graphic is referenced in text
- ☐ The text comment the figure

## Third graph

### COVID-19

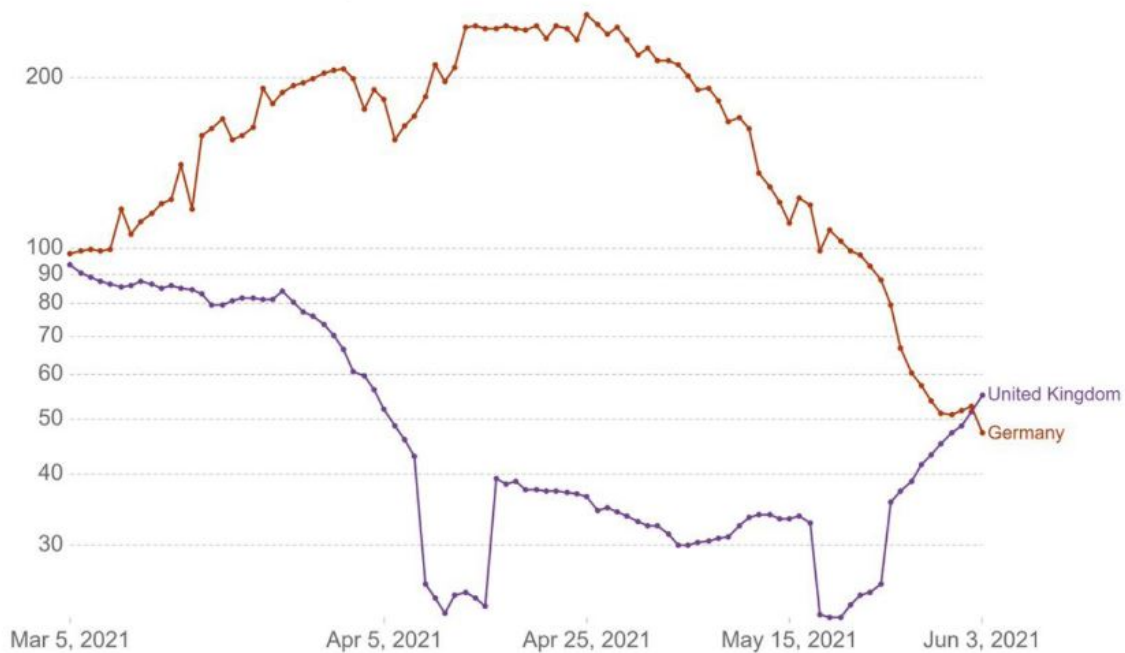
#### Data

- ☒ Type of graphic adapted
- ☐ Interpolation make sense
- ☒ Sufficient number of points
- ☒ Building method clear
- ☐ Confidence intervals visualized
- ☐ Appropriate steps for histograms
- ☐ Histograms visualize probabilities

## Daily new confirmed COVID-19 cases per million people

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

Our World  
in Data



Source: Johns Hopkins University CSSE COVID-19 Data

CC BY

Figure 3: COVID-19

## Graphical objects

- ☒ Graphical objects are readable on any support
- ☒ Standard color range
- ☐ Axis identified and labelled
- ☐ Scales units are explicit
- ☒ No ambiguity when curves cross
- ☐ Grid helps reading

## Annotation

- ☒ Axis are labelled by quantities
- ☒ Labels of the axis are clear, and self contained
- ☐ Units are indicated on the axis
- ☒ Axes are oriented from bottom-left to top-right
- ☐ Origin should be (0,0), if not it should be clearly justified
- ☐ No Hole on the axes
- ☐ the order's of graph/histogram bar is based on classical ordering
- ☒ Curves and Bar has legend

## Information

- ☒ Curves on the same scale
- ☒ Less than 6 curves
- ☒ Compare curves on same graphics
- ☒ A curve cannot be removed without reducing infos
- ☒ The graphic gives relevant infos
- ☐ If showing average, don't forget the error bars
- ☐ It is not possible to remove object without altering readability

## Context

- ☒ All symbols used are defined and references
- ☒ The graphics is the most appropriate representation for the data
- ☒ The graphic has a title
- ☒ The title is meaningful and self contained
- ☒ The graphic is referenced in text
- ☐ The text comment the figure