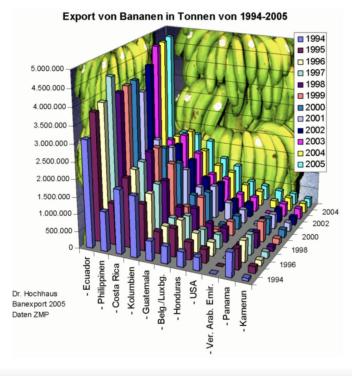
Good graphics checklist

First graph

Bananas

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





What a nice picture! 3 / 46

Figure 1: Bananas

Data

- $\hfill\Box$ Type of graphic adapted
- $\hfill\Box$ Interpolation make sense
- \square Sufficient number of points
- \square Building method clear
- \square Confidence intervals visualized
- \Box Appropriate steps for histograms
- \Box Histograms visualize probabilities

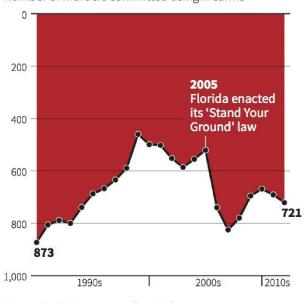
Graphical objects

 □ 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

(EXAMPLES) CRITERIA SYNTHESIS TRAINING MISTAKES

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.

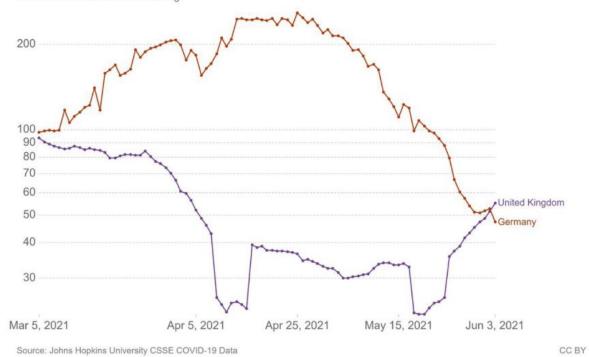


Figure 3: COVID-19

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

${\bf Context}$

- \boxtimes All symbols used are defined and references
- \boxtimes The graphics is the most appropriate representation for the data
- \square The graphic has a title
- oxtimes The title is meaningful and self contained
- oxtimes The graphic is referenced in text
- $\hfill\Box$ The text comment the figure