

How to read graphs

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In an era where information is readily available, graphs have become essential tools for conveying data in a visually appealing and concise manner. Understanding how to read them accurately is crucial for making informed decisions. However, graphs can be misleading if not interpreted correctly or are even made misleading on purpose at times. This infographic shows common cases of misleading graphs, including leaving out data, not labelling data properly or skipping numbers on the vertical axis. Here are some handy tips to help you identify misleading graphs.

HOW TO **READ GRAPHS**



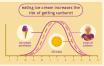
Reading graphs correctly

Graphs are great tools for visually showing data. But they can be misleading if data is poorly presented, e.g., data is left out/badly labelled or axes are distorted.



Misleading title
The title suggests two things are related, but no cause-and-effect relationship exists.

⊗ misleading graph





2 Incorrect scale
The vertical or horizontal scale is too big or too small, skips numbers or doesn't start at zero.

⊗ misleading graph



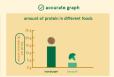


Misleading labels

The data is not properly labelled, or misleading labels are used.

misleading graph





4 Unclear key or legend
Colours and symbols are not used







Data is left out
The graph doesn't show the full range of data we need to interpret it.



