

BIG DATA

An abstract graphic featuring concentric circles and a central dark circle. The circles are filled with a pattern of small, glowing golden dots. The background is dark, and there are wavy, golden lines extending from the sides of the central graphic.

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BIG DATA

Using plots and charts in data visualization



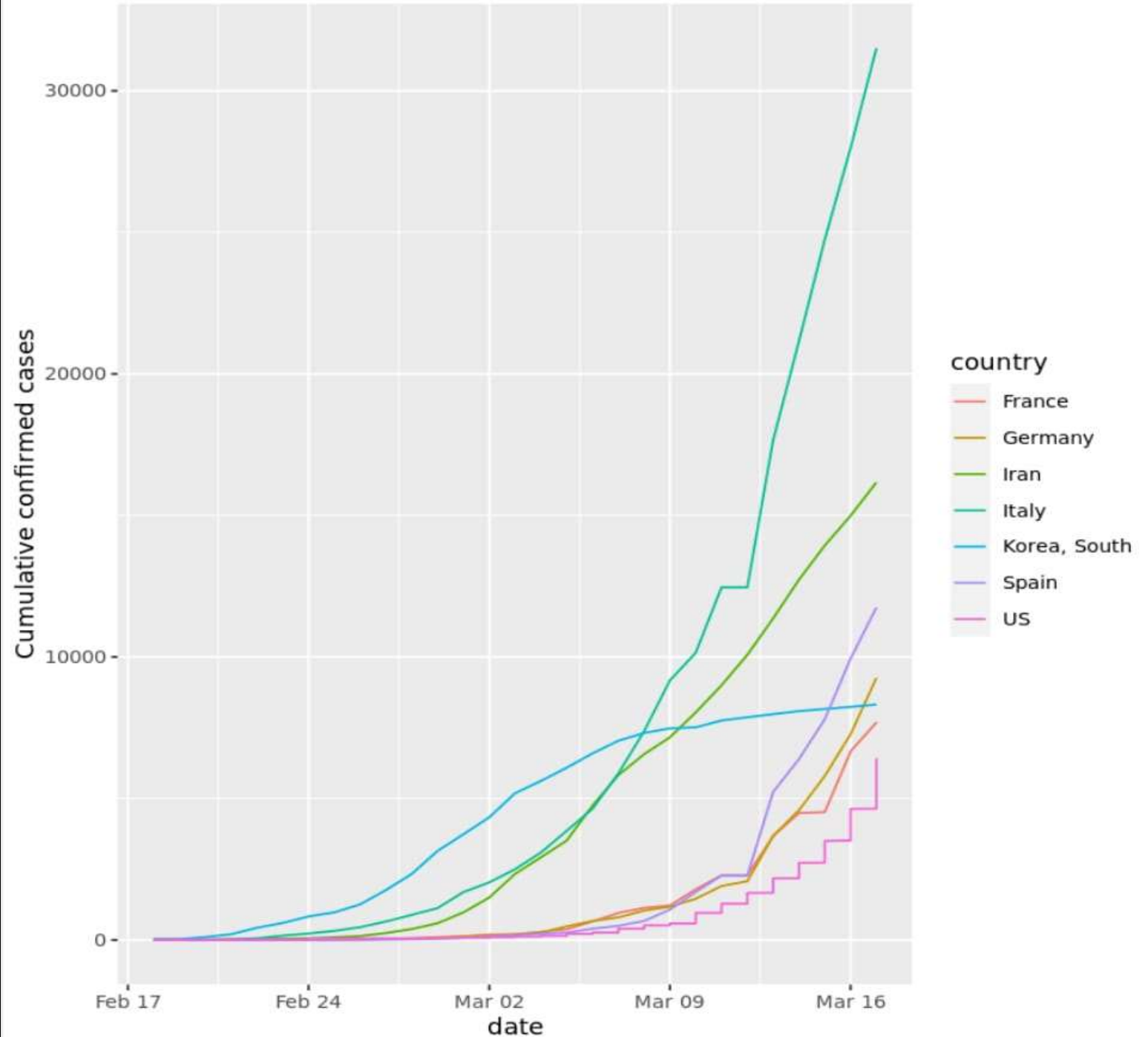
Histogram

Main screen selections

On the main screen, after selecting the data column to be analyzed, you can directly view different charts, and all the required data calculation values are displayed in the chart for reference. Of course, the data can also be selected and replaced according to your requirements. Various parameters can also be selected and adjusted at any time.

Histogram

Here we use the histogram as an example to show how different parameter settings allow you to get the charts you need.



What is data visualization?

Data visualization is the practice of translating information into a visual context, such as a map or graph, to make data easier for the human brain to understand and pull insights from. The main goal of data visualization is to make it easier to identify patterns, trends and outliers in large data sets. The term is often used interchangeably with others, including information graphics, information visualization and statistical graphics.

Data visualization timeline



1644
Flemish astronomer Michael Florent van Langren provides the first representation of statistical data.

1600s

1700s
Thematic mapping emerged and abstract graphs of functions, measurement errors and the collection of empirical data were introduced.

1700s

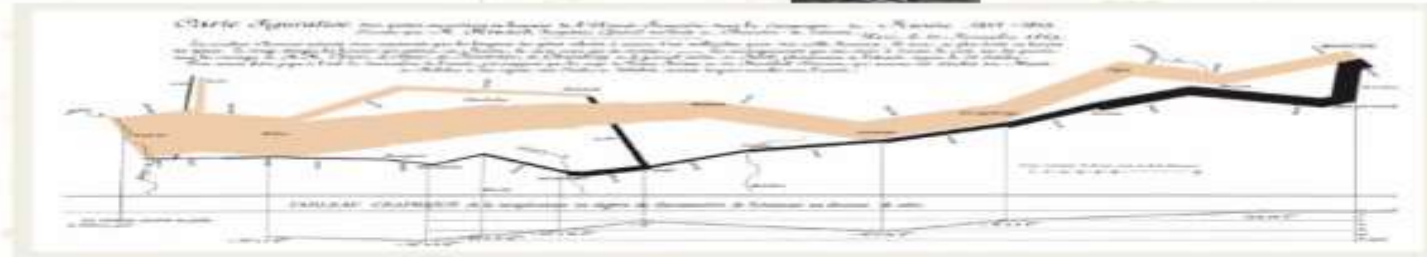


THE CHART FROM
WILLIAM PLAYFAIR'S
"STATISTICAL
BREVIARY"

1800s

1800s
William Playfair, among others, introduced some of today's most popular graphs and various statistical chart types were invented.

1854
Physician John Snow maps the outbreaks of cholera that occurred across London during the 1854 epidemic.



1869
Charles Joseph Minard charts the number of men in Napoleon's 1812 Russian army.

1900s

Early 1900s
Statisticians are less concerned with data visualization and more focused on exact numbers. Simultaneously, data visualization gains public popularity, and charts and graphs start appearing in textbooks and business applications.

Late 1900s
The emergence of computer processing allows statisticians to collect, store and efficiently visualize larger volumes of data.

1960s-1970s
Researchers John W. Tukey and Jacques Bertin develop the science of data visualization in statistics and cartography, respectively.

Early 1980s
Edward Tufte publishes *The Visual Display of Quantitative Information*, which is currently used in university courses.



Why is data visualization important?

Why is **Data Visualization** Important for Business?



Data visualization provides a quick and effective way to communicate information in a universal manner using visual information. The practice can also help businesses identify which factors affect customer behavior; pinpoint areas that need to be improved or need more attention; make data more memorable for stakeholders; understand when and where to place specific products; and predict sales volumes.

Using plots and charts in data visualization



Plot



Chart



Getting started

Buckets

Objects

Configuration

Policies

Endpoint

Service credentials

Connections

Usage details

Plan

Storage / object-storage / some-unique-name



some-unique-name



Objects

Add objects



Object Name

Size

Last Modified

There are no objects in this bucket. [Click here to add objects](#)

You successfully created a bucket! Now add objects or drag and drop them here.

[Learn more about buckets in Cloud Object Storage](#)

upload bucket files

Overview **Assets** Logs Manage

Assets

Add to project

11 assets

All assets

Asset types

- 11 Assets
- 1 Supermarket
- 1 In the house
- 1 Asset model

All assets

Name

Last modified



Asset 141 The Asset 141

5 months ago



Asset 141 - Intelligent Mailboxes

5 months ago



Asset 141 - Intelligent Mailboxes

5 months ago



Asset 141 - Intelligent Mailboxes

5 months ago



Asset 141 - Intelligent Mailboxes

5 months ago



Asset 141 - Intelligent Mailboxes

5 months ago

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Cloud Object Storage

Instances ▾

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)



Search credentials...



New credential



Key name

Date created



Service credentials-1

2023-02-25
10:38 PM

The image features a dark background with a stylized city skyline at the top and bottom. The skyline is composed of various geometric shapes in shades of brown and gold. In the center, there is a large, dark blue circular graphic that resembles a camera lens or a stylized eye. Inside this circle, there is a ring of small, glowing yellow dots. The text "THANK YOU" is written in a bold, sans-serif font, with "THANK" in white and "YOU" in a light orange color. The text is positioned horizontally across the center of the image, overlapping the central circular graphic.

THANK YOU