

BIG DATA

An abstract graphic featuring a dark gray background. In the center, there are several concentric circles. A spiral of small, glowing yellow and orange dots starts from the center and moves outwards, passing through the concentric circles. The dots are more densely packed in some areas, creating a sense of depth and movement. The overall design is modern and tech-oriented.

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CONTENTS

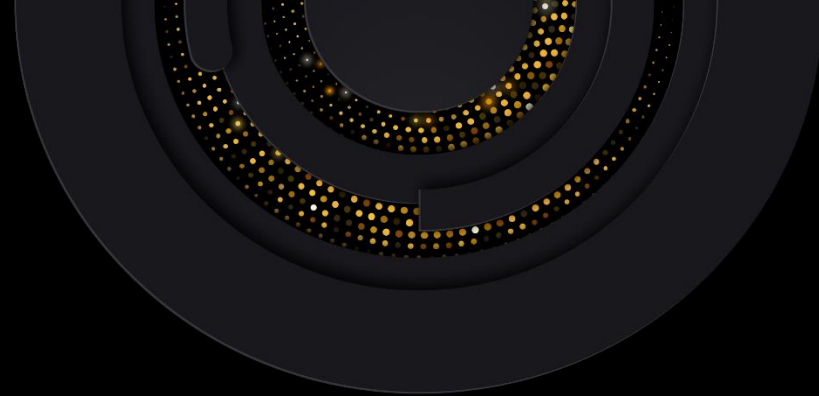


PART 1 / What is data visualization?

PART 2 / Why is data visualization
important?

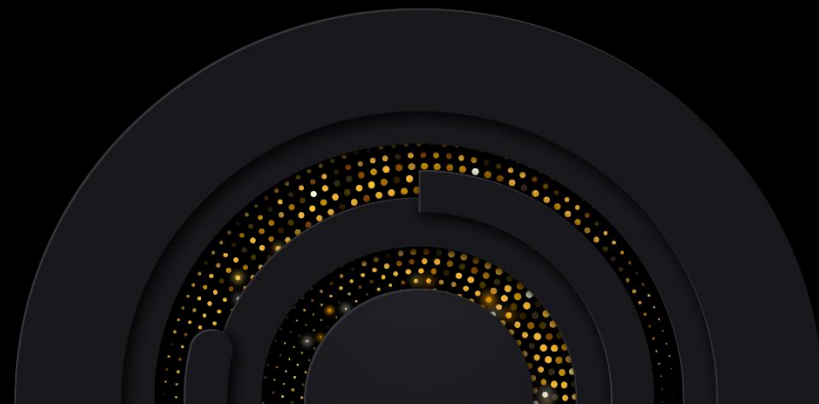
PART 3 / Using plots and charts in data
visualization





BIG DATA

Using plots and charts in data visualization



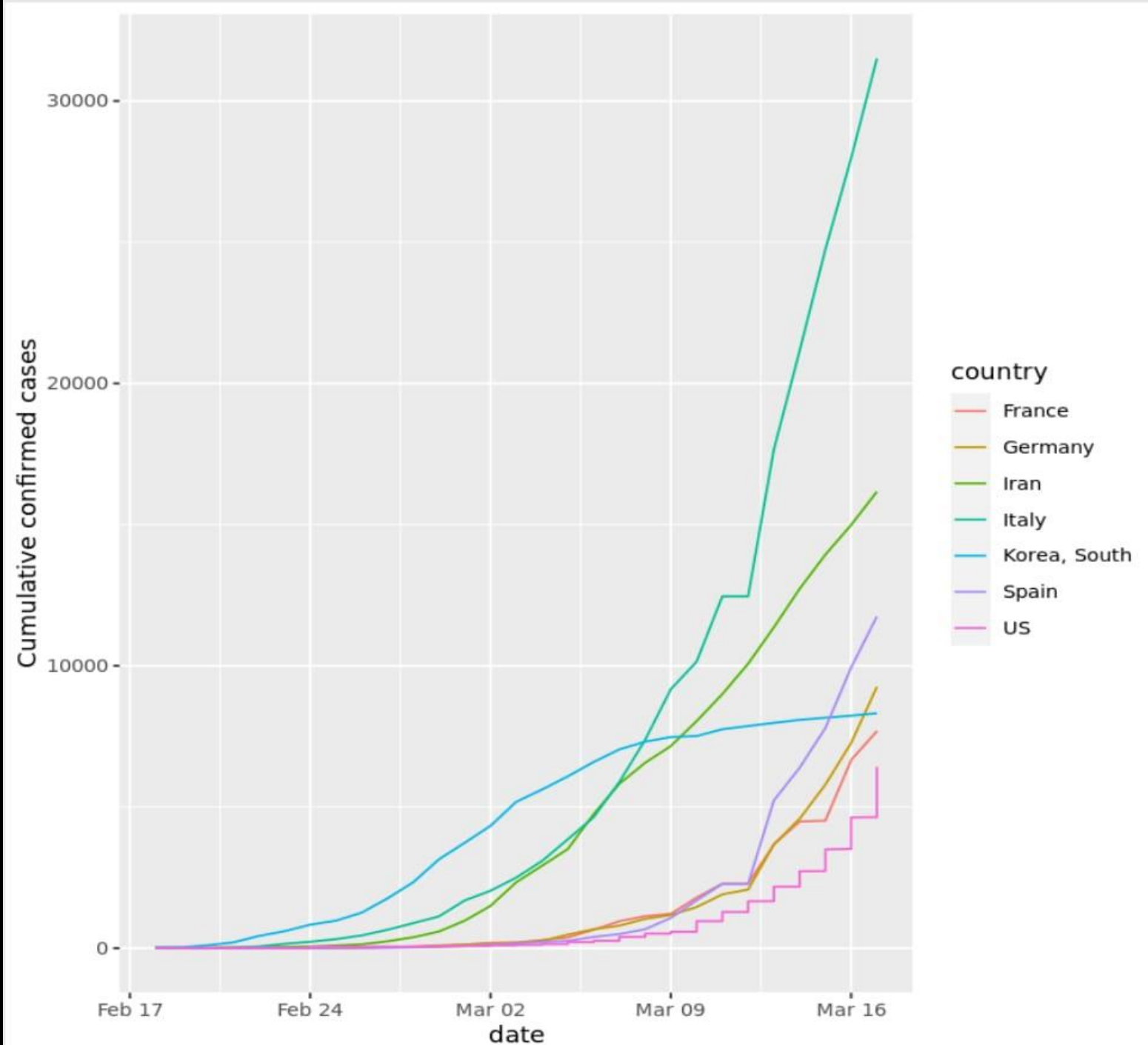
Histogram

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

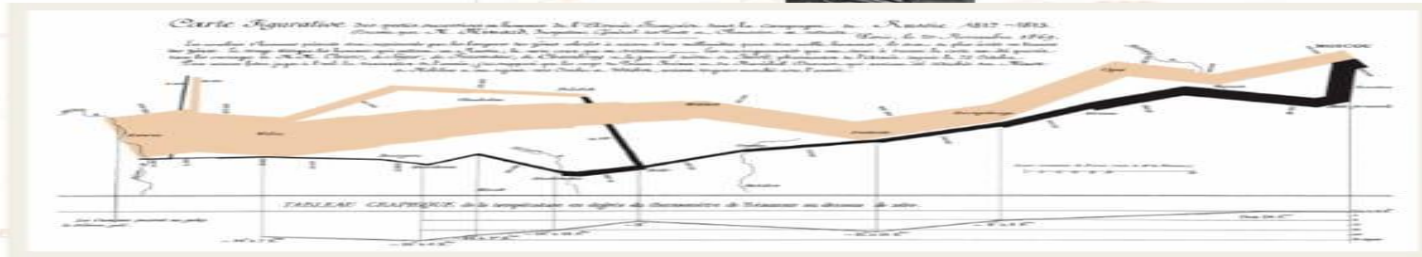


PIE CHART FROM
WILLIAM PLAYFAIR'S
"STATISTICAL
BREVARIUM"

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.

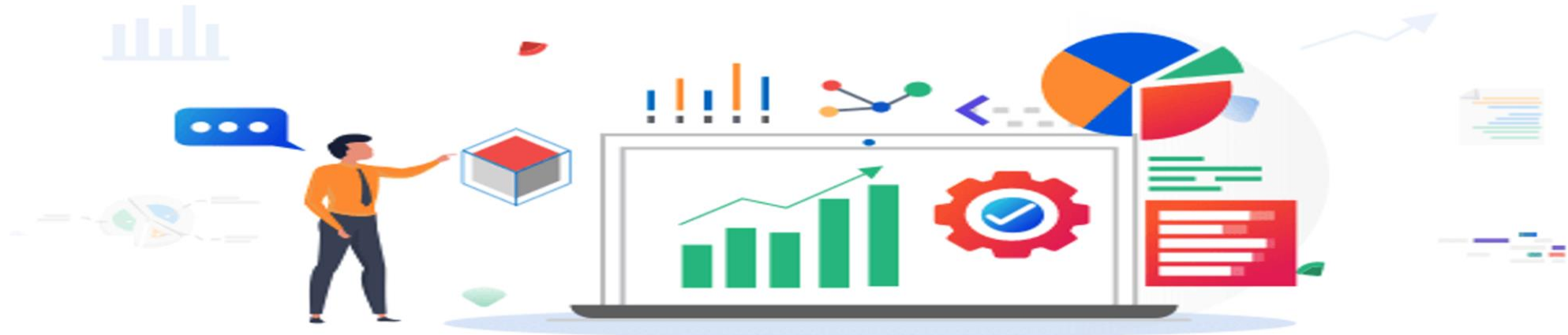
1960s-1970s
Researchers John W. Tukey and Jacques Bertin develop the science of data visualization in statistics and cartography, respectively.

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

Type the first 3 characters of the object name(s)

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 Jobs Manage

0 Assets

ADD NEW PROJECT +

21 assets

All assets



All assets

Asset types

- 1 Data
- 1 Experiments
- 1 Source Code
- 1 Saved models

16
1
1
1

Name	Last modified	
 Asset Me Test Notebook Notebook	5 months ago	
 README - Intelligent Maintenance.pdf pdf	5 months ago	
 PredictiveMaintenance Dataset Information document	5 months ago	
 Predict Failure model	5 months ago	
 2-Experiments Notebook functional system	5 months ago	
1-Parameterized... ...	5 months ago	



Items per page: 20

1-20 of 20 items

1 of 2 pages





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 with a glowing, golden, pixelated ring inside. The text "THANK YOU" is written across the center in a bold, sans-serif font. The word "THANK" is in white, and "YOU" is in a golden-yellow color.

THANK YOU