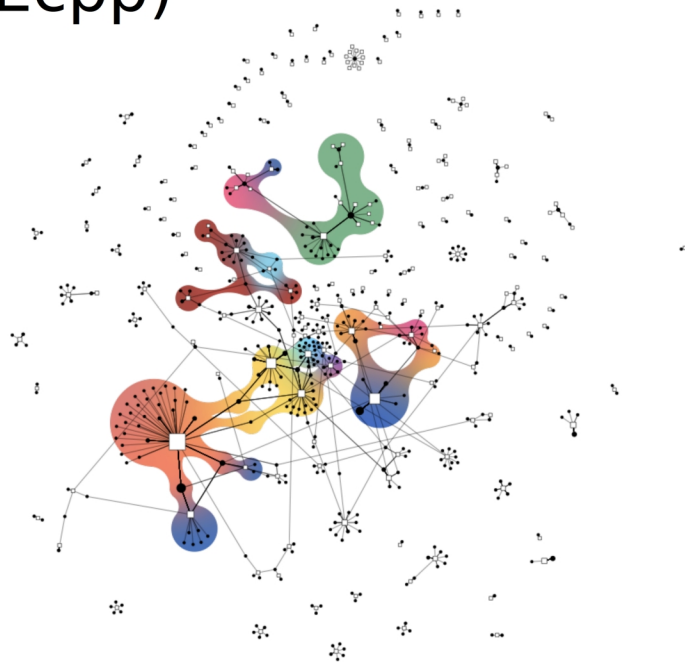


La data visualization sui progetti Wikimedia

Eleonora Cappuccio &
Niccolò “Jaen” Caranti

Eleonora Cappuccio (Ecpp)



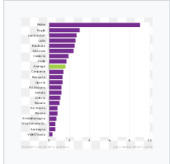
Niccolò "Jaen" Caranti

Media in category "Images from EDJNet"

The following 51 files are in this category, out of 51 total.



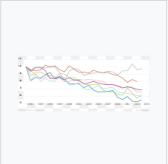
Abortion in Europe.svg
600 × 435; 141 KB



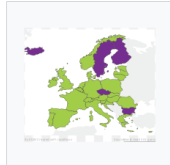
Abortions per gynecologist in Italy.svg
600 × 600; 23 KB



Assisted reproductive technology across Europe.svg
730 × 380; 107 KB



Common bird index (1990-2014).svg
900 × 380; 28 KB



Conscientious objection to abortion in Europe.svg
600 × 520; 116 KB



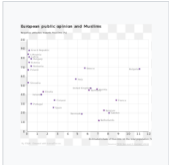
EDJNet extended Logo.png
1,000 × 387; 109 KB



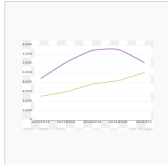
EDJNet for Wikipedia.png
940 × 788; 235 KB



EDJNet Logo.png
550 × 548; 37 KB



Estimated Muslim population Vs Negative attitudes towards Muslims.svg
700 × 650; 45 KB



EU workers joining and leaving the NHS, annual variation in absolute numbers (2012-2017).svg
700 × 480; 18 KB



<https://meta.wikimedia.org/wiki/OBCT>



Foto Burkhard Mücke, CC BY-SA

A cosa possono servire i grafici su Wikipedia?

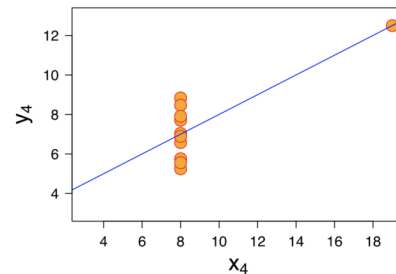
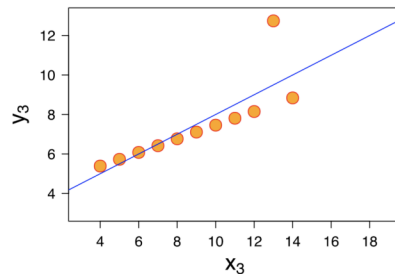
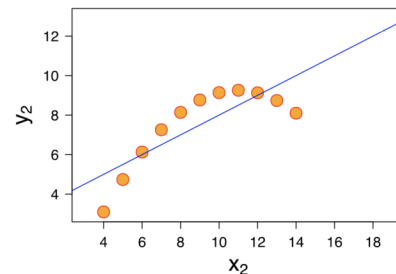
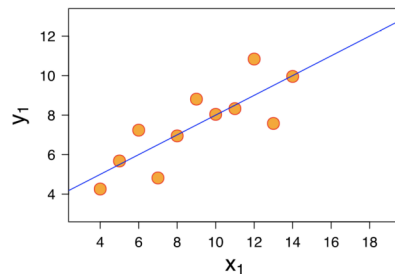
“A data visualization is a display of data designed to enable analysis, exploration and discovery.”

Alberto Cairo, 2016

A cosa possono servire i grafici su Wikipedia?

I		II		III		IV	
x	y	x	y	x	y	x	y
10.0	8.04	10.0	9.14	10.0	7.46	8.0	6.58
8.0	6.95	8.0	8.14	8.0	6.77	8.0	5.76
13.0	7.58	13.0	8.74	13.0	12.74	8.0	7.71
9.0	8.81	9.0	8.77	9.0	7.11	8.0	8.84
11.0	8.33	11.0	9.26	11.0	7.81	8.0	8.47
14.0	9.96	14.0	8.10	14.0	8.84	8.0	7.04
6.0	7.24	6.0	6.13	6.0	6.08	8.0	5.25
4.0	4.26	4.0	3.10	4.0	5.39	19.0	12.50
12.0	10.84	12.0	9.13	12.0	8.15	8.0	5.56
7.0	4.82	7.0	7.26	7.0	6.42	8.0	7.91
5.0	5.68	5.0	4.74	5.0	5.73	8.0	6.89

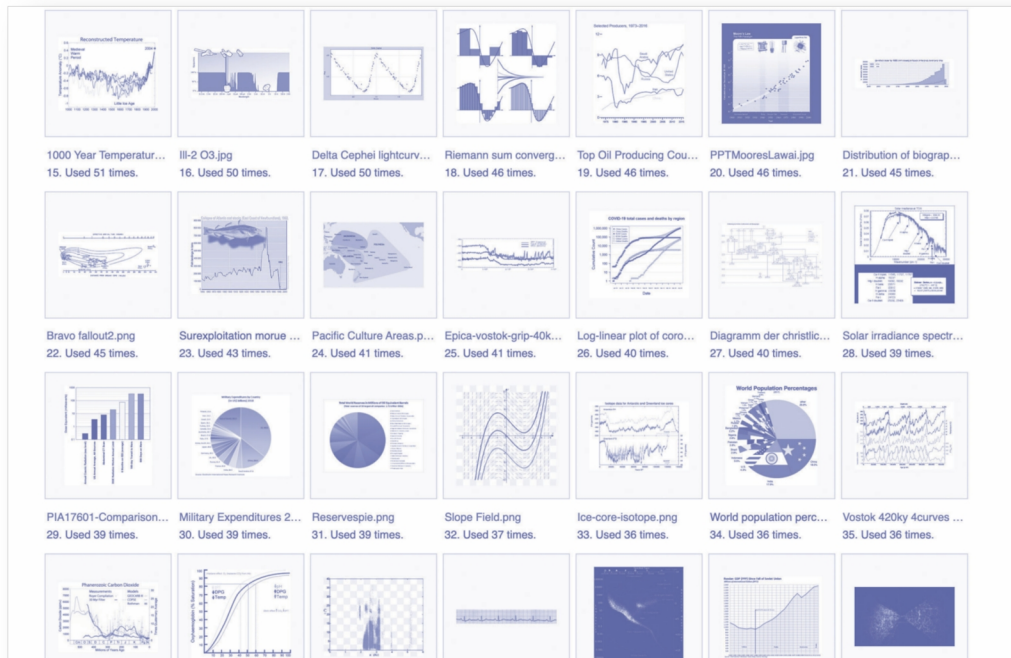
VS



Avenue at English Wikipedia,
CC BY-SA 3.0, via
[Wikimedia Commons](#)

Come possono essere inserite
le visualizzazioni dati
sui progetti Wikimedia?

Immagini



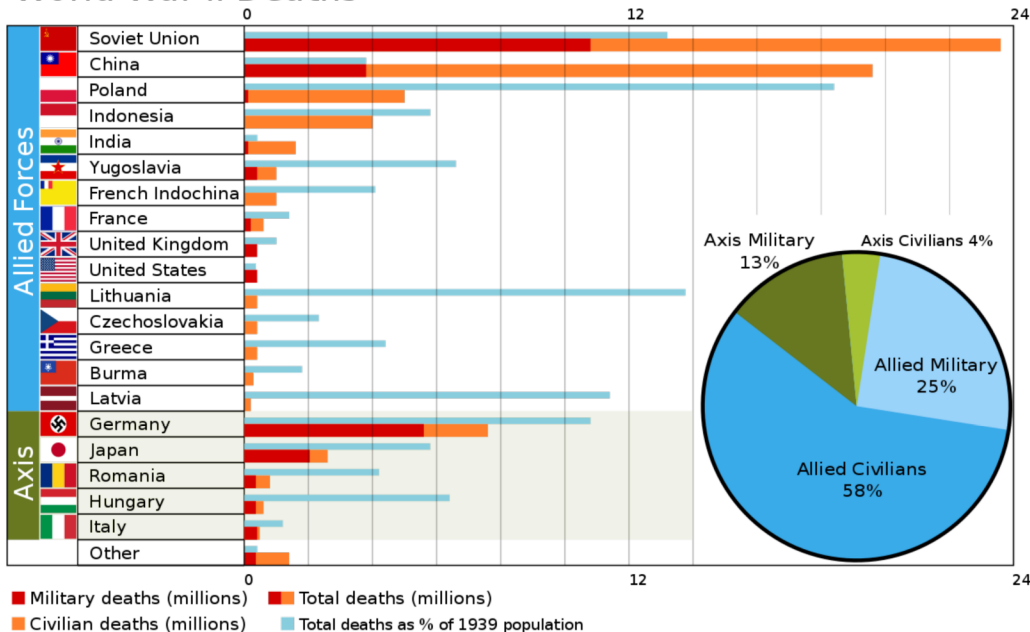
La visualizzazione dati può essere caricata come immagine su Commons

Può essere utili se non si sanno usare i template per la creazione di visualizzazioni dati

Screenshot di

[Top 200 graph images that should use vector graphics](#)

World War II Deaths



Limiti delle immagini

Spesso non è disponibile il dataset usato per generarla

Description	English: World War 2 was devastating for both the Allied and Axis nations. Five countries suffered the deaths of more than 10% of their population.
Date	20 May 2008 (original upload date)
Source	Modification of Image:World_War_II_Casualties.svg
Author	Oberiko at English Wikipedia

Oberiko at English Wikipedia,
CC BY-SA 3.0, via
[Wikimedia Commons](#)

Limiti delle immagini

	Date/Time	Thumbnail	Dimensions	User	Comment
current	01:46, 2 April 2020		2,754 x 1,398 (502 KB)	Wind of freedom (talk contribs)	Update
	02:25, 31 March 2020		2,754 x 1,398 (502 KB)	Wind of freedom (talk contribs)	Update
	02:01, 30 March 2020		2,754 x 1,398 (502 KB)	Wind of freedom (talk contribs)	update
	04:08, 29 March 2020		2,754 x 1,398 (502 KB)	Wind of freedom (talk contribs)	Update
	03:58, 26 March 2020		2,754 x 1,398 (502 KB)	Wind of freedom (talk contribs)	update
	03:31, 24 March 2020		2,754 x 1,398 (502 KB)	Wind of freedom (talk contribs)	Update: removed KOR, coloured by mistake
	04:44, 23 March 2020		2,754 x 1,398 (501 KB)	Wind of freedom (talk contribs)	Update
	04:49, 22 March 2020		2,754 x 1,398 (498 KB)	Wind of freedom (talk contribs)	Update
	03:43, 20 March 2020		2,754 x 1,398 (497 KB)	Wind of freedom (talk contribs)	Correction
	03:15, 20 March 2020		2,754 x 1,398 (497 KB)	Wind of freedom (talk contribs)	Update
	03:49, 19 March 2020		2,754 x 1,398 (497 KB)	Wind of freedom (talk contribs)	Correction
	03:43, 19 March 2020		2,754 x 1,398 (497 KB)	Wind of freedom (talk contribs)	Update
	03:46, 18 March 2020		2,754 x 1,398 (495 KB)	Wind of freedom (talk contribs)	Update
	03:54, 17 March 2020		2,754 x 1,398 (488 KB)	Wind of freedom (talk contribs)	Update
	03:09, 16 March 2020		2,754 x 1,398 (488 KB)	Wind of freedom (talk contribs)	Update

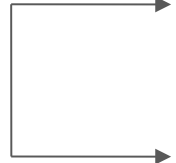
Difficoltà di modifica:

1. Necessario ricaricare l'immagine per aggiornare i dati
2. Perdita di qualità se il formato è lossy (es. jpg)

Fonte: https://commons.wikimedia.org/wiki/File:Restrizioni_per_gli_Italiani_COVID19.png

Immagini

Visualizzazioni
dati su
Commons



Formato raster



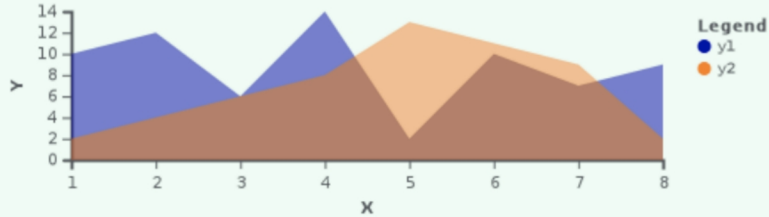
Rifatte da
capo

Formato vettoriale
(SVG)



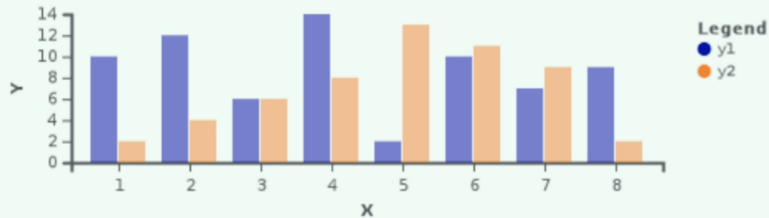
Modifica non
facile per tutti

Template



Bar chart with multiple data series:

```
{{Graph:Chart
| width=400
| height=100
| xAxisTitle=X
| yAxisTitle=Y
| legend=Legend
| type=rect
| x=1,2,3,4,5,6,7,8
| y1=10,12,6,14,2,10,7,9
| y2=2,4,6,8,13,11,9,2
| colors=#800000aa,#80ff8000
}}
```



Area chart with smoothed data values:

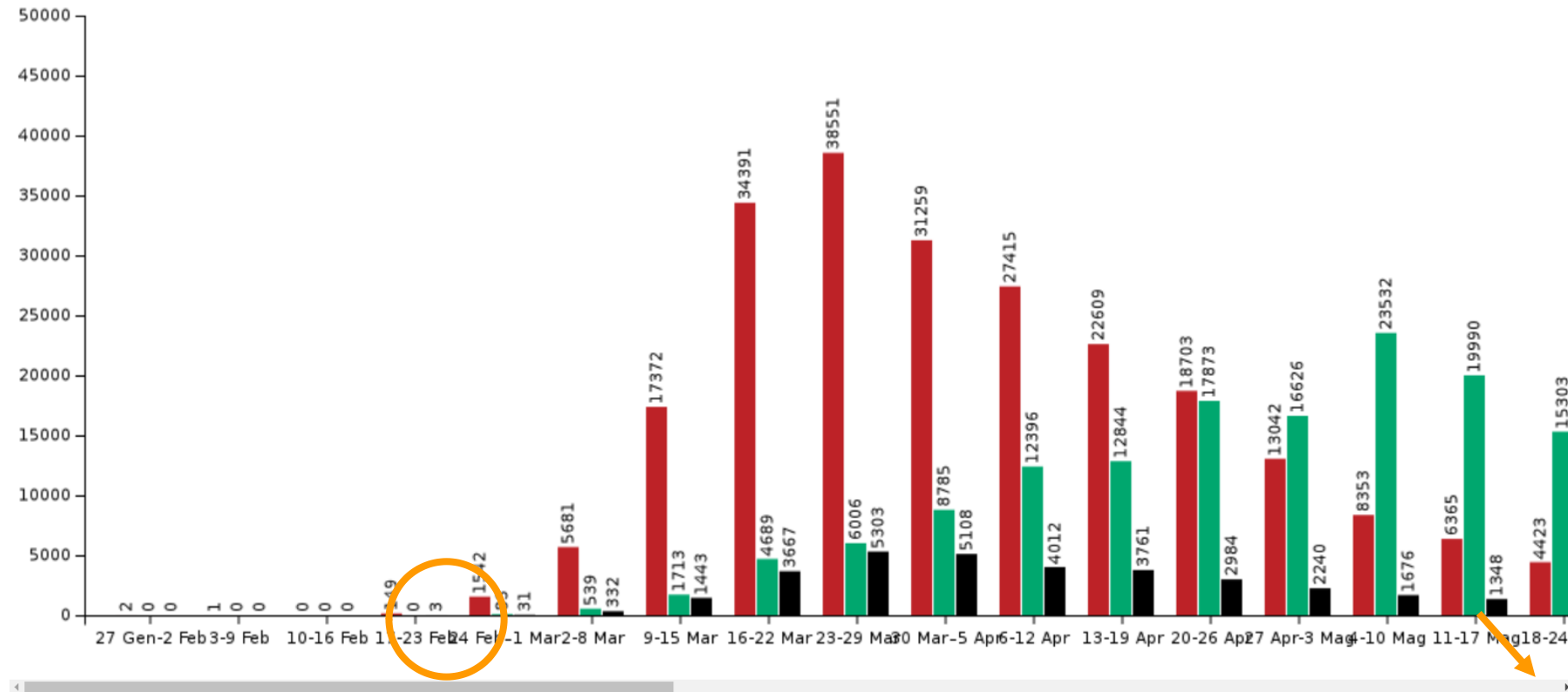
I template possono essere inseriti direttamente nella voce di Wikipedia.

Se si conosce il codice, è più semplice modificarli rispetto alle immagini.

<https://en.wikipedia.org/wiki/Help:Graph>

Limiti dei template: grafica non sempre fruibile

Nuovi casi, guarigioni e decessi per settimana [[modifica](#)]



https://it.wikipedia.org/wiki/Pandemia_di_COVID-19_del_2020_in_Italia

Dati difficili da leggere, esportare e modificare

```
=== Nuovi casi, guarigioni e decessi per settimana ===  
<div style="overflow-x:auto;>  
  {{Grafico Vega 2  
  |width=2270  
  |height=400  
  |colors= #b22222, #00A86B, #000000  
  |showValues= offset:2  
  |xAxisTitle=Data  
  |type=rect  
  |x= 27 Gen-2 Feb,3-9 Feb,10-16 Feb,17-23 Feb,24 Feb-1 Mar,2-8 Mar,9-15 Mar,16-22 Mar,23-29 Mar,30 Mar-5 Apr,6-12 Apr, 13-19 Apr,  
  20-26 Apr, 27 Apr-3 Mag, 4-10 Mag, 11-17 Mag, 18-24 Mag, 25-31 Mag, 1-7 Giu, 8-14 Giu, 15-21 Giu, 22-28 Giu, 29 Giu-5 Lug, 6-12  
  Lug, 13-19 Lug, 20-26 Lug, 27 Lug-2 Ago, 3-9 Ago, 10-16 Ago, 17-23 Ago, 24-30 Ago, 31 Ago-6 Set, 7-13 Set, 14-20 Set, 21-27 Set, 28  
  Set-4 Ott, 5-11 Ott, 12-17 Ott  
  |y1Title=nuovi casi settimanali  
  |y1=  
  2,1,0,149,1542,5681,17372,34391,38551,31259,27415,22609,18703,13042,8353,6365,4423,3161,1979,1991,1508,1434,1306,1450,1373,1684,195  
  2,2497,3197,5438,8873,9422,10121,10406,11715,15462,29622,47591  
  |y2Title=guarigioni settimanali  
  |y2=  
  0,0,0,0,83,539,1713,4689,6006,8785,12396,12844,17873,16626,23532,19990,15303,17028,8330,10633,6523,6438,3221,2820,2021,1497,2014,15  
  47,1688,1684,2066,2479,3619,5446,6066,7497,7795,9418  
  |y3Title=decessi settimanali  
  |legend=Legenda  
  |y3=  
  0,0,0,3,31,332,1443,3667,5303,5108,4012,3761,2984,2240,1676,1348,877,630,484,391,289,165,123,93,91,62,47,51,37,41,40,65,69,97,128,1
```

https://it.wikipedia.org/wiki/Pandemia_di_COVID-19_del_2020_in_Italia

Modalità di inserimento dei dati non uniformi

```
{{Bar_chart
| title           =
| bar_width      = 50
| table_width    = 50
| width_units    = em
| label_type     = Countries
| data_type      = Number of journalists killed or murdered since the WW2
| data_max       = 82
| float          = right

| label1         = Abkhazia
| data1          = 3

| label2         = Armenia
| data2          = 1

| label3         = Azerbaijan
| data3          = 6

| label4         = Belarus
| data4          = 2

| label5         = Bosnia and Herzegovina
```

Come migliorare i grafici su Wikipedia?

Obiettivi:

- facilità di caricamento dei dati
- facilità di modifica dei dati
- possibilità di creare diversi tipi di grafici in modo semplice
- possibilità di scaricare i dati (e non solo le visualizzazioni)
- evitare duplicazione dei dati fra progetti
- supporto al multilinguismo
- attenzione alle fonti

Il progetto

Grants:Project/Dataviz 4 Wiki

[< Grants:Project](#)

Project idea [\[edit\]](#)

What is the problem you're trying to solve? [\[edit\]](#)

What problem are you trying to solve by doing this project? This problem should be small enough that you expect it to be completely or mostly resolved by the end of this project. Remember to [review the tutorial](#) for tips on how to answer this question.

Data visualisation is sometimes better than simple text to convey information. However, creating data visualisations on Wikipedia and other Wikimedia projects is cumbersome, so they are underused, and -when they are used- they force contributors to waste a lot of time. Moreover, results are often unsatisfactory from a graphical point of view, and in most cases it is not possible to easily download the data in order to reuse them, undermining Wikimedia's mission of disseminating content effectively.

status **not selected**

Project Grants

Dataviz 4 Wiki

summary

Let's make data visualisation on Wikimedia projects better!

target

Wikimedia Commons, English Wikipedia, Italian Wikipedia

type of grant

tools and software

amount

https://meta.wikimedia.org/wiki/Grants:Project/Dataviz_4_Wiki

Usare il namespace data su Commons

Data:Ncei.noaa.gov/weather/New York City.tab

From Wikimedia Commons, the free media repository

New York City weather data

date	highTemp	avgHighTemp	avgLowTemp	lowTemp	precip	snowfall	precipDays	snowfallDays
string	number	number	number	number	number	number	number	number
Date	Highest temp	Average high temp	Average low temp	Lowest temp	Precipitation	Snowfall	Precipitation Days	Snowfall Days
1869-01	12.2	4.2	-1.3	-8.3	64.3	383.5	9	3
1869-02	16.1	4.3	-1.2	-8.3	174.5	243.8	8	4
1869-03	15.6	5.5	-1.7	-15.6	117.1	20.3	11	1
1869-04	24.4	13.1	6.7	-1.1	35.3	0	8	0
1869-05					105.4	0	13	0
1869-06	30.6	23.4	18.2	12.2	111.8	0	15	0
1869-07	33.3	25.6	20.2	16.7	81.3	0	11	0

https://commons.wikimedia.org/wiki/Data:Ncei.noaa.gov/weather/New_York_City.tab

Creare un tool open source per creare le visualizzazioni
a partire dai dataset su Commons

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RAWGraphs


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1. Load your data


 Paste your data 

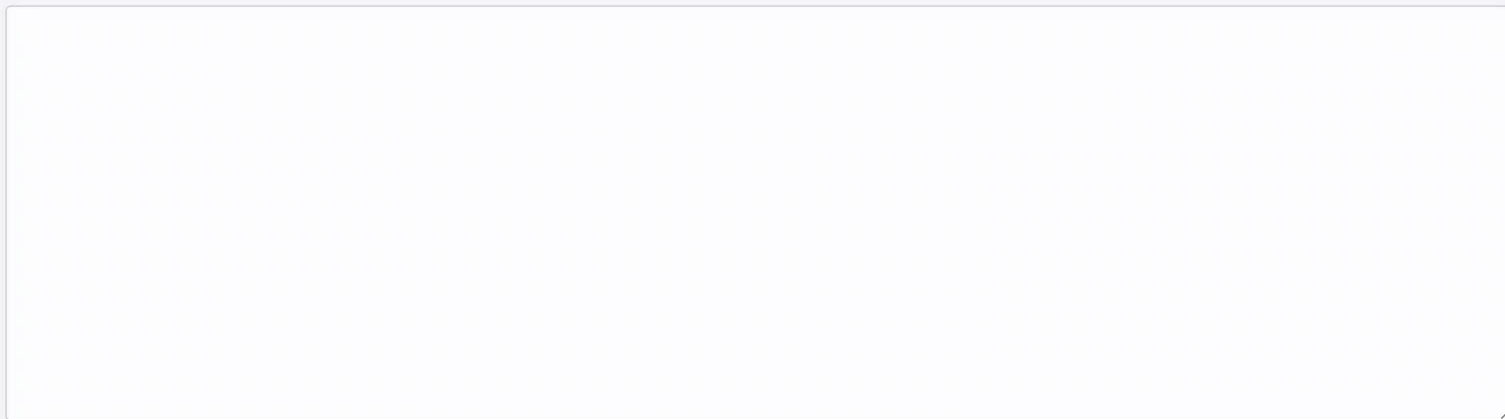
 Upload your data

 Try our data samples

 SPARQL query SOON!

 From URL

 Open your project SOON!



Copy and paste your data from other applications or websites. You can use tabular (TSV, CSV, DSV) or JSON data.

Domande?

Contatti:

caranti@balcanicaucaso.org

eleonora.cappuccio12@gmail.com

Grazie per l'attenzione!