

# Infographics and DataViz for evidence-driven decision making: a hands-on approach

## References and resources

Masterclass on data visualisation

[Evidence for Policy School – Disaster Risk Management](#)

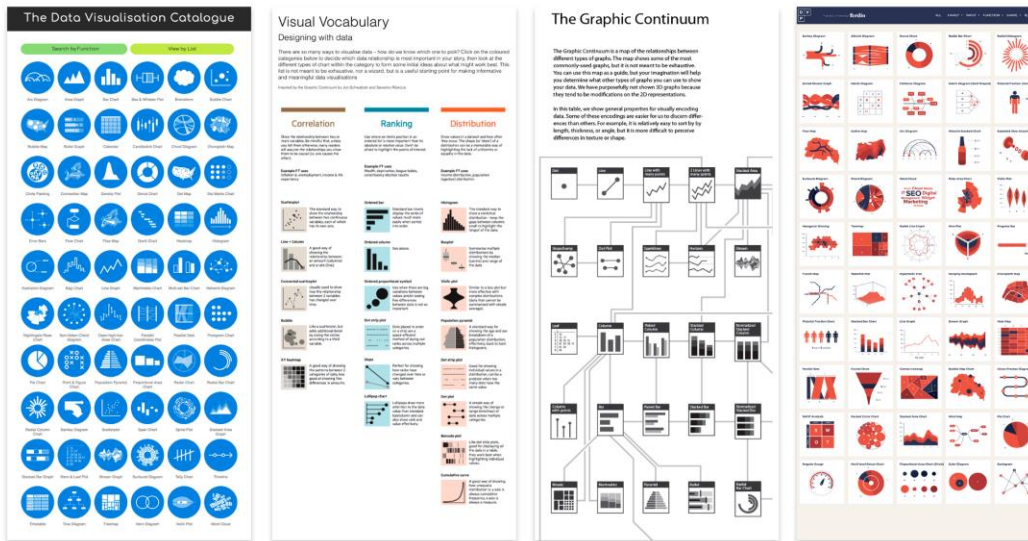
13-15 January 2020, Florence, Italy,

[Rafael Höhr](#), [Emiliano Bruno](#)

- Which graphic do I need?
- Data visualization and infographic websites
- Online tools to create graphics
- Data visualisation blogs
- Articles
- Twitter
- Materials from the course “Data Visualization for Storytelling and Discovery” by Alberto Cairo
- Links used during the Winter School Masterclass

# Which graphic do I need?

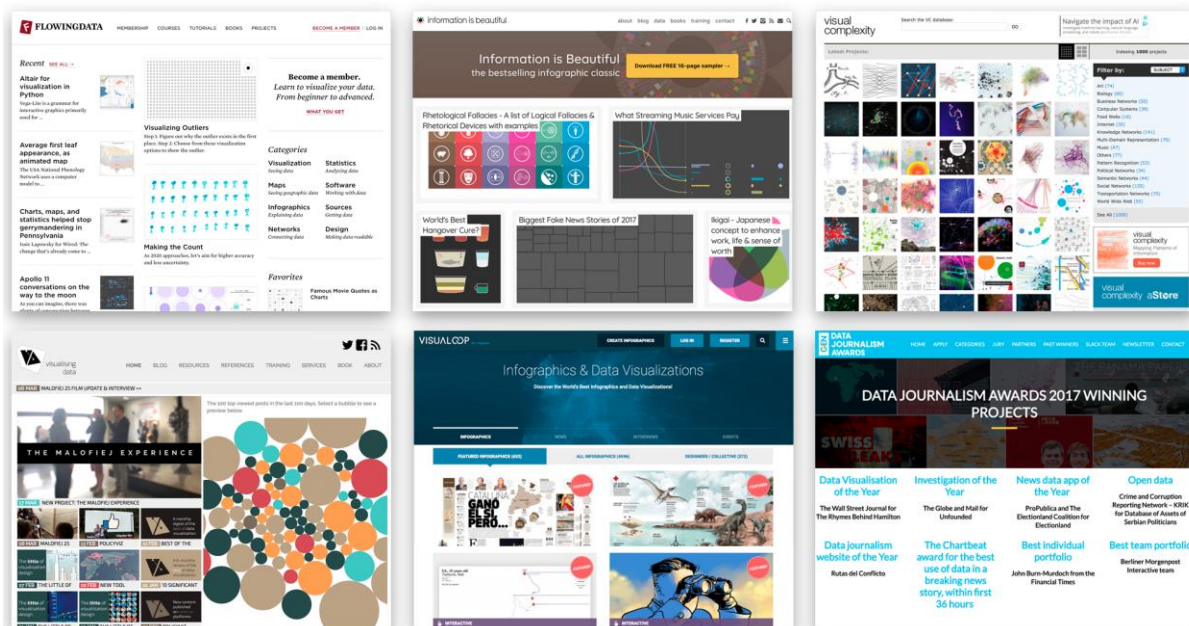
Online free references to select the correct visualization.



- [The Data Visualization Catalogue](#)
- [Visual vocabulary](#)
- [The Graphic continuum](#)
- [Data Viz Project](#)
- [From Data to Viz](#)
- [Tableau Visual Vocabulary](#)

# Data visualization and infographic websites

Interesting sites and inspirational. Keep an eye on this sites.

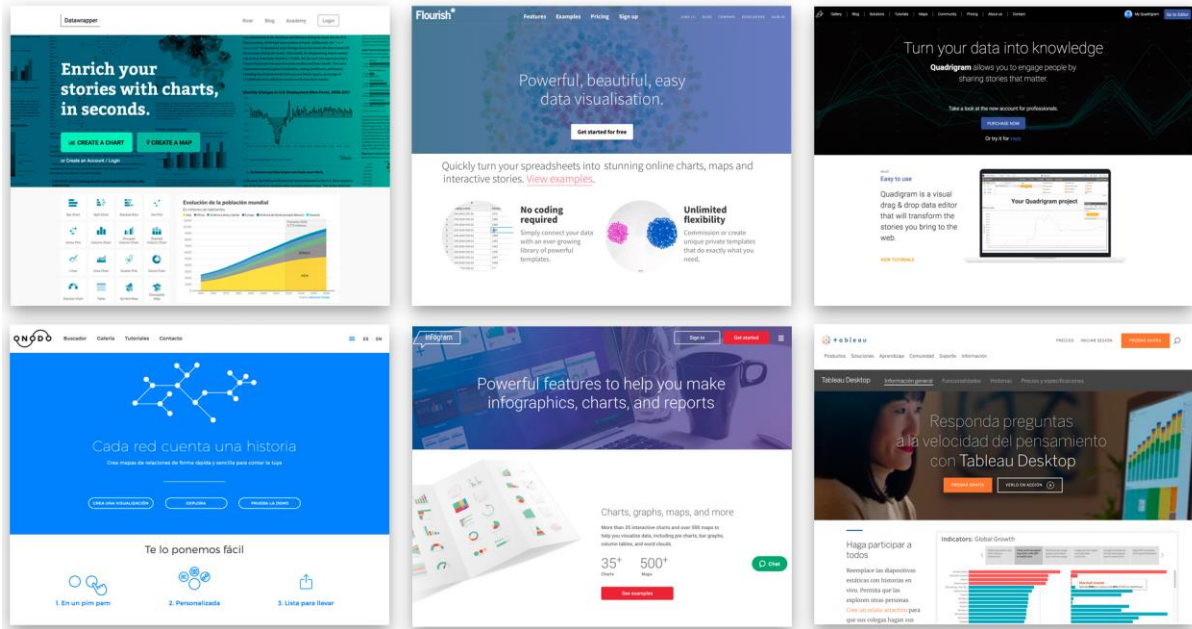


- [Online graphics](#)
- [Information is beautiful](#)

- [Visualoop](#)
- [Flowing data](#)
- [Information Aesthetics](#)
- [Visual complexity](#)
- [Visualising data](#)

## Online tools to create graphics

Most of them have a free version or a Beta mode.



- [Datarwrapper](#)
- [Flourish](#)
- [Tableau](#)
- [Infogr.am](#)
- [Onodo.org](#)
- [Ploty](#)
- [Circos](#)
- [Quadrigam](#)
- [Charticulator](#)

Also here are some .js libraries.

- [Zingchart](#)
- [Vega](#)
- [Raphael](#)
- [D3.js](#)

Working with with maps

- [CARTO](#)
- [Map4News](#)
- [Mapbox](#)
- [StoryMapJS](#)

And some few other tools

- [430 Data Visualization Tools](#)
- [Datavisualization.ch](#)
- [Digital Story Tools](#)

## Data visualisation blogs

- [Storytelling with data](#) by Cole Nussbaumer  
Cole is a fantastic professional and one of the most important in the sector of Data Visualization.

“Through this blog, I aim to teach storytelling with data through examples and practical tips. My goal is to bring data to life and use it to communicate a story to an audience, with a focus on simplicity and ease of interpretation.”

- <https://www.makeovermonday.co.uk/>

Eva Murray and Andy Kriebel are other two famous professional of DataViz. In their page, they take graphs (real ones) published by media and show how they can be re-done, converting those graphs into a more understandable ones.

## Data visualization softwares' blogs

These blogs do not only publish about their applications, also share theoretical visual knowledge and tricks and recommendations.

- [Datawrapper](#)
- [Quadrigam](#)
- [Carto](#)
- [Infogr.am](#)
- [Tableau](#)
- [Plotly](#)

## Articles:

- Archie Tse (NYT) presentation: [Why We Are Doing Fewer Interactives.](#)
- Financial Times about interactivity: [Why the FT creates so few clickable graphics.](#)
- Dominikus Baur: [The death of interactive infographics?.](#)
- Niemanlab: [“Small screens, full art, \(...\)”](#) mobile information graphics examples.
- Rafael Höhr: [Applications to create graphics](#) (updated).

## Twitter:

- FT Data [@ftdata](#)
- Data Driven Journalism [@ddjournalism](#)
- Guardian Visuals [@GuardianVisuals](#)
- Guardian Data [@GuardianData](#)
- NPR Visuals team [@nprviz](#)
- Washington Post Graphics [@PostGraphics](#)
- New York Times Graphics [@nytgraphics](#)

- Wall Street Journal Graphics [@WSJGraphics](#)
- Infographics Group [@IGG Berlin](#)
- Bloomberg Graphics [@BBGVisualData](#)
- Reuters Graphics [@ReutersGraphics](#)

## Materials from the course “Data Visualization for Storytelling and Discovery” by Alberto Cairo

### [Data Visualization for Storytelling and Discovery](#)

Alberto Cairo is one of the gurus of DataViz and possibly one of the most (personal opinion) common-sensed of all of them. He has just shared, (beginning of september 2018) the materials of his last MOOC “Data Visualization for STorytelling and Discovery).

We would invite all of you to go through the courses materials and exercises.

## Links used during the Winter School Masterclass





## **WILDFIRES FORES FIRES (Sweden, Greece, Portugal...)**

How big is the burned area in Australia - compared to your region

<https://interaktiv.waz.de/australia-area-burned-interactive-comparison/>

Wildfires in Greenland, Alaska and Siberia are leaving a painful mark on the environment.  
REUTERS

<https://graphics.reuters.com/WEATHER-WILDFIRES-ARCTIC/0100B26K13Y/index.html>

Shrouded in smoke as Indonesia burns again

<https://graphics.reuters.com/SOUTHEASTASIA-HAZE/0100B2B91DS/index.html>

How big are the fires burning in Australia? Interactive map

<https://www.theguardian.com/australia-news/datablog/ng-interactive/2019/dec/07/how-big-are-the-fires-burning-on-the-east-coast-of-australia-interactive-map?fbclid=IwAR3TL5Nnv7S1zmY1bc7uJ8xGCF2q1XM-9xsfWswQKWipL-J6NH3UBFTNnBU>

BBC. Australia fires: A visual guide to the bushfire crisis

<https://www.bbc.com/news/world-australia-50951043>

Australia Fire Maps: Where the Devastating Wildfires Are Burning

[https://www.bloomberg.com/graphics/2020-australia-fires/?utm\\_source=twitter&utm\\_content=graphics&utm\\_medium=social&utm\\_campaign=socialflow-organic&cmpid%3D=socialflow-twitter-graphics](https://www.bloomberg.com/graphics/2020-australia-fires/?utm_source=twitter&utm_content=graphics&utm_medium=social&utm_campaign=socialflow-organic&cmpid%3D=socialflow-twitter-graphics)

Despite California's inferno, global wildfires are fizzling out

<https://www.economist.com/graphic-detail/2018/11/17/despite-californias-inferno-global-wildfires-are-fizzling-out>

Sizing up Australia's bushfires

<https://graphics.reuters.com/AUSTRALIA-BUSHFIRES-SCALE/0100B4VK2PN/index.html>

Australia Government

<http://www.bom.gov.au/climate/history/temperature/>

## **DROUGHT**

The cancer eating away at farms

<https://fingfx.thomsonreuters.com/gfx/rngs/AUSTRALIA-DROUGHT/010071MC33G/index.html>

## **HURRICANES**

How to Tell if a Hurricane Is Headed Your Way

<https://www.wsj.com/articles/how-to-tell-if-a-hurricane-is-headed-your-way-1536658200>

Hurricane Seasons Are Getting More Severe

<https://www.bloomberg.com/graphics/2019-hurricane-season/>

## **FLOOD**

To See How Levees Increase Flooding, We Built Our Own

<https://projects.propublica.org/graphics/levees>

## **Recommendations GOV UK**

<https://flood-warning-information.service.gov.uk/long-term-flood-risk/map>

What 500-year flooding could look like around five cities

<https://www.washingtonpost.com/graphics/2017/national/harvey-flood-compare/>

Houston's floodwaters are receding, but they remain dangerously high in many areas

<https://www.washingtonpost.com/graphics/2017/national/harvey-houston-flooding/>

## **EARTHQUAKES**

INDONESIA EARTHQUAKE Devastation in Lombok

<https://fingfx.thomsonreuters.com/gfx/rngs/INDONESIA-QUAKE/010071NH35P/index.html>

## **Italy**

[https://elpais.com/elpais/2017/01/19/media/1484829854\\_360535.html](https://elpais.com/elpais/2017/01/19/media/1484829854_360535.html)

[https://elpais.com/internacional/2016/08/25/actualidad/1472143677\\_058163.html](https://elpais.com/internacional/2016/08/25/actualidad/1472143677_058163.html)

Graphic News Agency

<https://www.graphicnews.com/en/pages/34601/disasters-italy-earthquake-1>

Five charts show why earthquakes in Italy are so destructive

<https://www.ft.com/content/b63a8ce0-acdf-11e6-ba7d-76378e4fef24>

In earthquakes, just a few seconds of warning could save lives

[https://www.washingtonpost.com/graphics/2017/national/earthquake-alert-system/?utm\\_term=.8d9b376a44e4](https://www.washingtonpost.com/graphics/2017/national/earthquake-alert-system/?utm_term=.8d9b376a44e4)

## **TSUNAMIS**

Hawaii emergency agency

<http://dod.hawaii.gov/hiema/public-resources/tsunami-evacuation-zone/>

## **HEALTH ISSUES**

How the opioid epidemic evolved

<https://www.washingtonpost.com/graphics/2019/investigations/opioid-pills-overdose-analysis/>

Ebola. In Africa, a virus spreads

<https://graphics.reuters.com/HEALTH-EBOLA-CONGO/010081G62NR/index.html>

Ebola outbreak in five graphics

<https://www.bbc.com/news/world-africa-48621085>

Ebola outbreak

<https://www.who.int/features/ebola/storymap/en/>

Ebola GOV UK

<https://www.gov.uk/government/publications/viral-haemorrhagic-fever-algorithm-and-guidance-on-management-of-patients>

## **CLIMATE ENVIRONMENT GLOBAL WARMING**

The hard truths of climate change — by the numbers

<https://www.nature.com/immersive/d41586-019-02711-4/index.html>

Rising Seas Will Erase More Cities by 2050, New Research Shows

<https://www.nytimes.com/interactive/2019/10/29/climate/coastal-cities-underwater.html>

ELPAIS. Así se acumula en la atmósfera el principal gas de efecto invernadero que está causando la crisis climática

<https://elpais.com/especiales/2019/el-co2-en-el-cambio-climatico/>

Ice Loss, WashingtonPost

<https://www.washingtonpost.com/graphics/2019/world/climate-environment/climate-change-japan-pacific-sea-salmon-ice-loss/>

2°C: BEYOND THE LIMIT

<https://www.washingtonpost.com/graphics/2019/national/climate-environment/climate-change-america/>

CLIMATE CHANGE

<https://graphics.straitstimes.com/STI/STIMEDIA/Interactives/2018/10/ST-climate-of-change/index.html>

WEATHER 2050

<https://www.vox.com/a/weather-climate-change-us-cities-global-warming>

How Hong Kong's weather is getting hotter and more extreme

<https://multimedia.scmp.com/news/hong-kong/article/extreme-weather/>

## **PLASTIC**

Drowning in plastic

<https://graphics.reuters.com/ENVIRONMENT-PLASTIC/0100B275155/index.html>

What Happens to the Plastic We Throw Out

<https://www.nationalgeographic.com/magazine/2018/06/the-journey-of-plastic-around-the-globe/>

## **MISLEADING GRAPHICS**

BBC. Australia fires: Misleading maps and pictures go viral

[https://www.bbc.co.uk/news/amp/blogs-trending-51020564?\\_twitter\\_impression=true](https://www.bbc.co.uk/news/amp/blogs-trending-51020564?_twitter_impression=true)



HURRICANES.

<https://www.washingtonpost.com/news/the-fix/wp/2015/12/14/why-the-national-reviews-global-temperature-graph-is-so-misleading/>

Australia fires.

[https://maldita.es/malditaciencia/que-sabemos-sobre-esta-imagen-de-los-incendios-de-australia-es-una-visualizacion-de-incendios-acumulados-durante-un-mes-hecha-por-un-artista-no-es-una-foto-satelital-de-la-nasa/?utm\\_source=twitter&utm\\_medium=compartido&utm\\_campaign=%C2%BFQu%C3%A9+sabemos+sobre+esta+imagen+de+los+incendios+de+Australia%3F+Es+una+visualizaci%C3%B3n+de+incendios+acumulados+durante+un+mes+hecha+por+un+artista,+no+es+una+foto+satelital+de+la+NASA](https://maldita.es/malditaciencia/que-sabemos-sobre-esta-imagen-de-los-incendios-de-australia-es-una-visualizacion-de-incendios-acumulados-durante-un-mes-hecha-por-un-artista-no-es-una-foto-satelital-de-la-nasa/?utm_source=twitter&utm_medium=compartido&utm_campaign=%C2%BFQu%C3%A9+sabemos+sobre+esta+imagen+de+los+incendios+de+Australia%3F+Es+una+visualizaci%C3%B3n+de+incendios+acumulados+durante+un+mes+hecha+por+un+artista,+no+es+una+foto+satelital+de+la+NASA)

Other interesting graphics

[https://www.bloomberg.com/graphics/2019-in-graphics/?utm\\_campaign=socialflow-organic&cmpid=socialflow-twitter-business&utm\\_medium=social&utm\\_source=twitter&utm\\_content=business](https://www.bloomberg.com/graphics/2019-in-graphics/?utm_campaign=socialflow-organic&cmpid=socialflow-twitter-business&utm_medium=social&utm_source=twitter&utm_content=business)

<https://www.informationisbeautifulawards.com/showcase?award=2019&type=awards>

<https://www.scmp.com/infographics>

<https://www.nytimes.com/interactive/2019/12/30/us/2019-year-in-graphics.html>

<https://www.wsj.com/graphics/year-in-graphics-2019/>

<https://www.snd.org/bodd/2019/02/16/2018-worlds-best-designed-finalists/>

For any further information please feel free to contact.

Some more interesting link:

<https://www.cfa.vic.gov.au/plan-prepare/am-i-at-risk> (good for preparedness, for the wide public!)

<https://www.cfa.vic.gov.au/plan-prepare/how-to-prepare-your-property> good for preparedness, for the wide public!)

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