

28 June 2016 || University of Amsterdam
DIGITAL METHODS SUMMER SCHOOL 2016

TUTORIAL

Visualising Data with RAW

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DEN-
SITY
GN+

RAW

The missing link between
spreadsheets and vector graphics.

[USE IT NOW!](#)

[FORK ME ON GITHUB](#)



Excel

+tableau⁺₊public



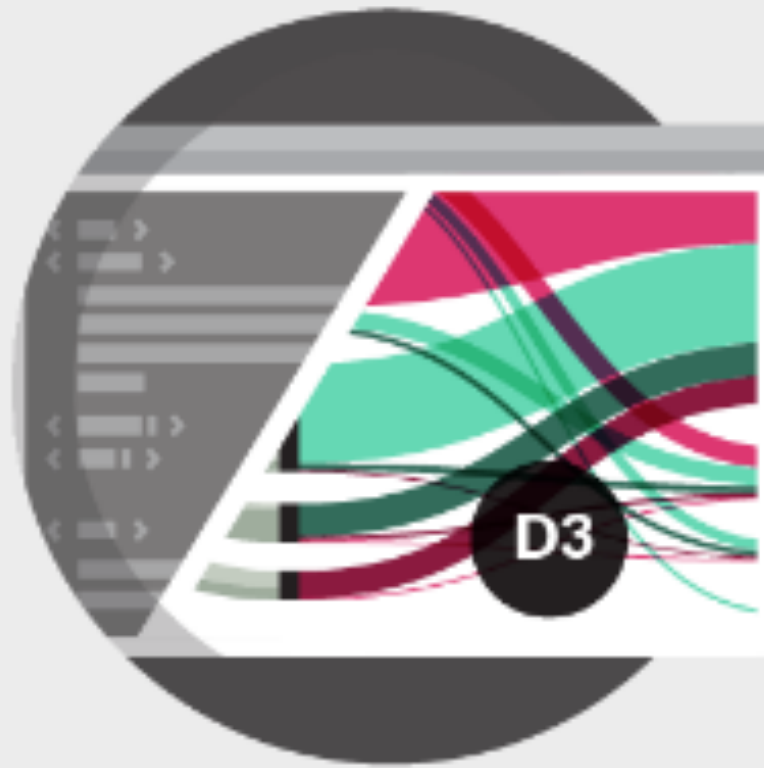
CARTO_{DB}



Quadrigram



FEATURES



BUILT ON D3.JS

Raw is an open web app to create custom vector-based visualizations on top of the amazing [D3.js library](#) through a simple interface.



HIGHLY CUSTOMIZABLE

Raw is an open and customizable project ([LGPL license](#)), and you can freely download it and modify it. If you want to contribute to its evolution, fork the project on [GitHub!](#)



YOUR DATA ARE SAFE!

Even though Raw is a web app, the data you upload will be processed only by the web browser. No server-side operations or storages are performed, no one will see, touch or copy your data!



EXPORT AND REFINE

Primarily conceived as a tool for designers and vis geeks, Raw allows to export visualizations in vector (SVG) or raster (PNG) format and embed them in your web page.



RAW

How it works



01:34

HD vimeo



Load your data



- Paste
- Upload a file
- From URL
- Try our samples

```
1 Name → Begin → End Role
2 Steve Harris → 12/25/1975 → 1/1/2015 → Bass
3 Paul Day → 12/25/1975 → 7/1/1976 → Vocals
4 Dennis Wilcock → 7/2/1976 → 3/1/1978 → Vocals
5 Paul Di'Anno → 11/1/1978 → 10/1/1981 → Vocals
6 Bruce Dickinson → 10/1/1981 → 8/28/1993 → Vocals
7 Blaze Bayley → 1/1/1994 → 1/2/1999 → Vocals
8 Bruce Dickinson → 1/2/1999 → 1/1/2015 → Vocals
9 Dave Sullivan → 12/25/1975 → 12/1/1976 → Guitars
10 Terry Rance → 12/25/1975 → 12/1/1976 → Guitars
11 Dave Murray → 12/1/1976 → 6/1/1977 → Guitars
12 Dave Murray → 3/1/1978 → 1/1/2015 → Guitars
13 Bob Sawyer → 1/1/1977 → 6/1/1977 → Guitars
14 Terry Wapram → 7/1/1977 → 3/1/1978 → Guitars
15 Paul Cairns → 12/1/1978 → 3/1/1979 → Guitars
```

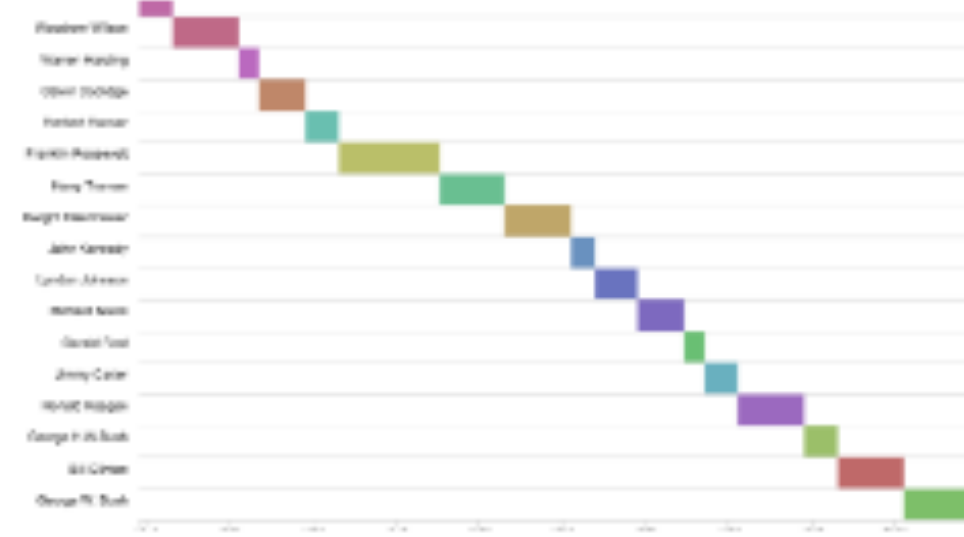
👍 26 records in your data have been successfully parsed!

Your data seems ready to go. But if you want to stack it anyway, click here

Choose a Chart

Gantt Chart

Time chunks



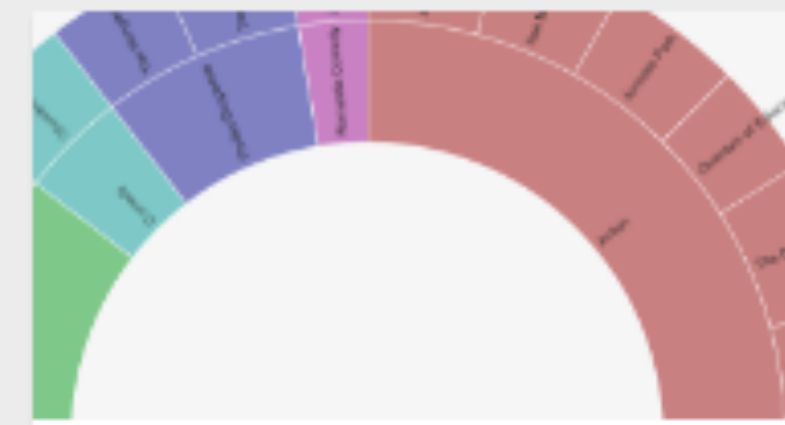
A Gantt chart is a type of bar chart, developed by Henry Gantt in the 1910s, that illustrates a project schedule. Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project.



Circle Packing
Weighted hierarchy



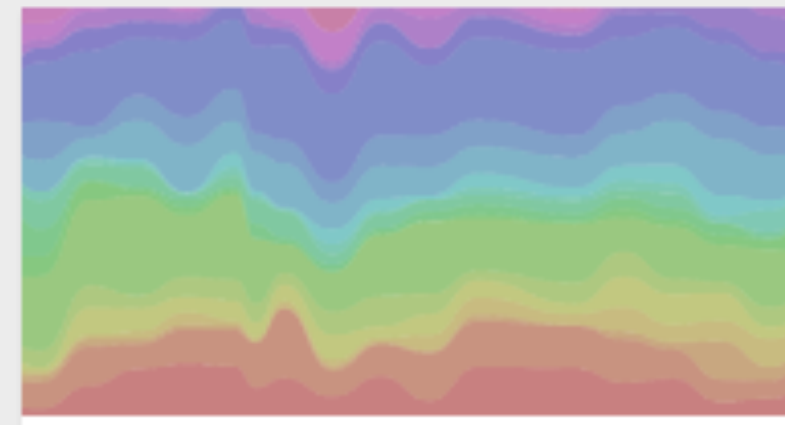
Treemap
Weighted hierarchy



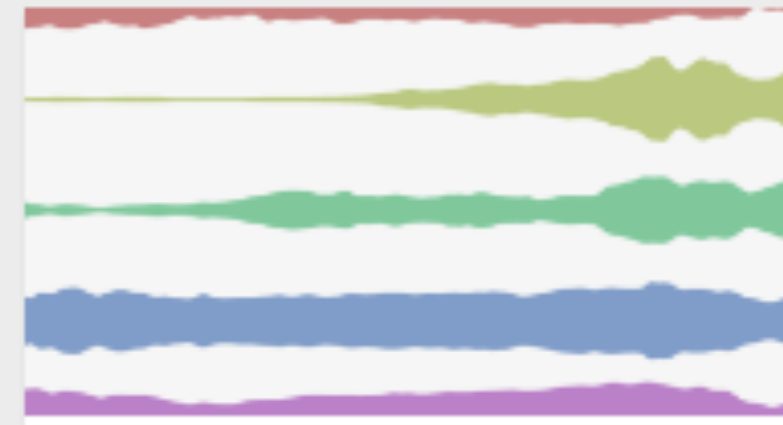
Sunburst
Weighted hierarchy



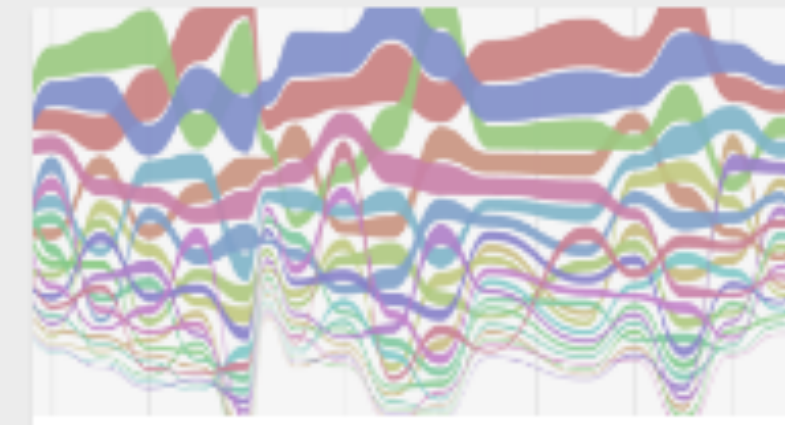
Clustered Force Layout
Weighted hierarchy



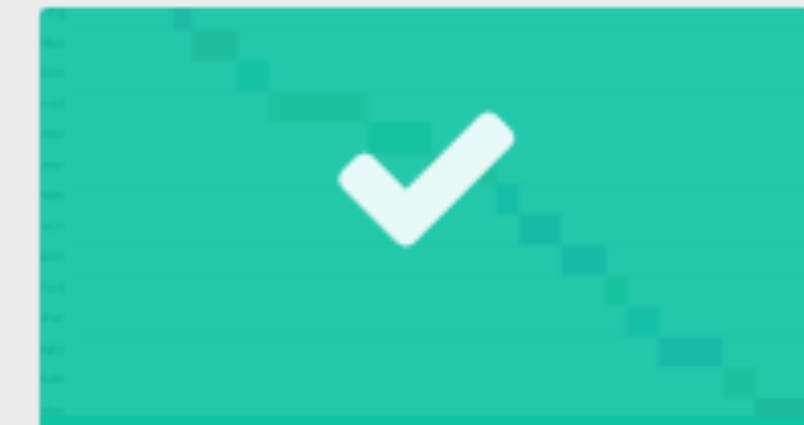
Streamgraph
Time series



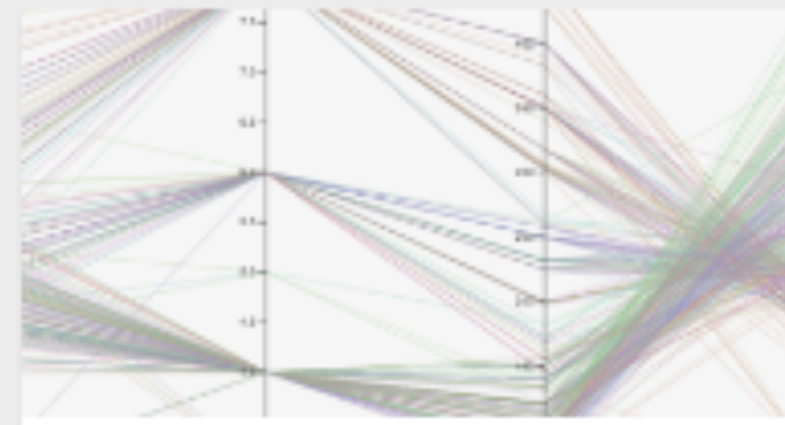
Small Multiples (Area)
Time series



Bump Chart
Time series



Gantt Chart
Time chunks



Parallel Coordinates
Multivariate



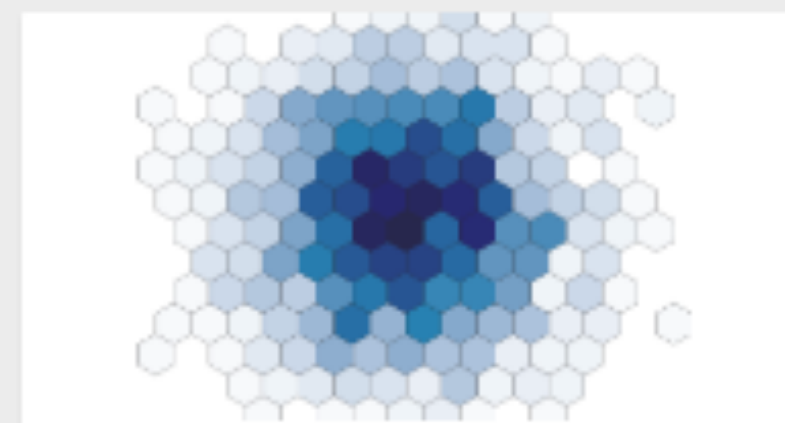
Alluvial Diagram
Multi categorical



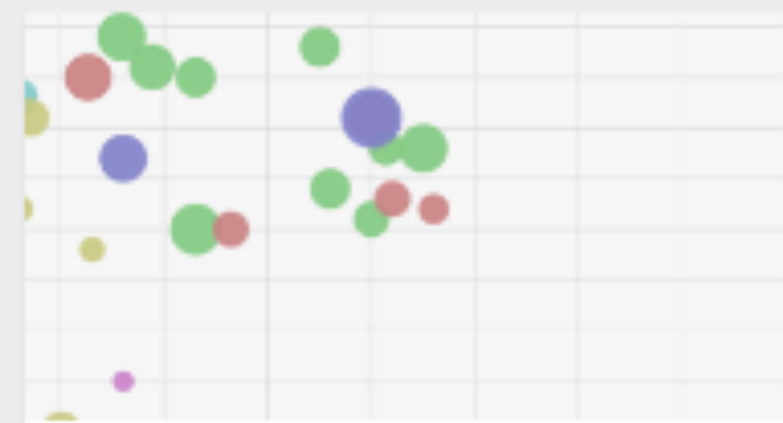
Cluster Dendrogram
Hierarchy



Circular Dendrogram
Hierarchy



Hexagonal Binning
Dispersion



Scatter Plot
Dispersion



Delaunay Triangulation
Dispersion



Convex Hull
Dispersion

Map your Dimensions



- Name string →
- Begin date →
- End date →
- Role string →

Group *

Drag numbers, strings, dates here

- Role string ×

Start Date *

Drag numbers, dates here

- Begin date ×

End Date *

Drag numbers, dates here

- End date ×

Color

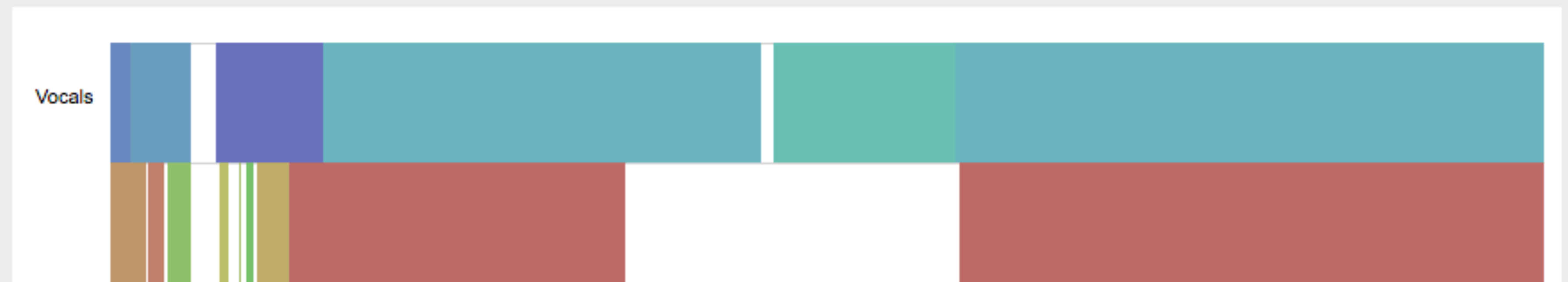
Drag strings, dates, numbers here

- Name string ×

Customize your Visualization

Width 

Height



Sort By

Start date (ascending) ▾

Color Scale

Ordinal (categories) ▾

Search...

Adrian Smith

#bf6969

Blaze Bayley

#69bfb4

Bob Sawyer

#bf7f69

Bruce Dickinson

#69b4bf

Clive Burr

#7869bf

Dave Murray

#69bf71

Dave Sullivan

#bf9669

Guitars

Drums

Keys

Bass

1980

1985

1990

1995

2000

2005

2010

20

Download

Vector graphics (svg) ▾

test1

Download

Embed SVG Code

```
<svg width="847" height="500" xmlns="http://www.w3.org/2000/svg"><g><g class="itemGroup" transform="translate(0,10)"><line x1="45.453125" y1="0" x2="847" y2="0" stroke="lightgrey" style="shape-rendering: crispEdges;"></line><text x="35.453125" y="0" dy="33.57142857142857" text-anchor="end" class="groupText" style="font-size: 11px; font-family: Arial, Helvetica;">Vocals</text><rect x="415.63145304167836" y="0" width="102.75232533153246" height="67.14285714285714" style="shape-rendering: crispEdges; fill: rgb(105, 101, 199);"></rect><rect x="519.2827792722108" y="0" style="shape-rendering: crispEdges; fill: rgb(105, 101, 199);"></rect></g></g>
```

Copy the snippet above into your HTML code to embed the visualization





Home

Edit

New Page

Giorgio Caviglia edited this page on Apr 9, 2014 · 17 revisions

RAW is an open source web tool developed at the [DensityDesign Research Lab](#) (Politecnico di Milano) to create custom vector-based visualizations on top of the amazing [d3.js](#) library by [Mike Bostock](#). Primarily conceived as a tool for designers and vis geeks, **RAW** aims at providing a missing link between spreadsheet applications (e.g. Microsoft Excel, Apple Numbers, OpenRefine) and vector graphics editors (e.g. Adobe Illustrator, Inkscape, ...).

RAW works with delimiter-separated values (i.e. csv and tsv files) as well as with copied-and-pasted texts from other applications (e.g. Microsoft Excel, TextWrangler, TextEdit). Based on the [svg](#) format, visualizations can be easily imported in and edited with vector graphics applications for further refinements, or directly embedded into web pages.

Knowing the need of working with sensitive information, the data uploaded to **RAW** is processed only by the web browser: no server-side operation or storage are performed - no one will see, touch or copy your data!

RAW is also highly customizable and extensible, accepting new custom charts defined by users. For more information about how to add or edit charts, see the [Developer Guide](#). For a complete documentation see [API Reference](#).

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data format

- **dropping** a plain text file (.csv, .tsv)
delimiters: comma, semicolon, tab or colon
- **copying** and pasting your data from a spreadsheet or a text file
- **typing** your data

common mistakes

- delimiter characters (literal / separated) > "txt"
- unwanted characters > check cell format
- decimal separator > . vs ,
- date format > *mm/dd/yyyy*
- latitude / longitude > edit in text editor

from SVG (RAW + Gephi) to Illustrator

Adobe Illustrator / HOW TO

- change colours > swatches
- change appearance > fill & stroke
- edit labels > find font / text tool

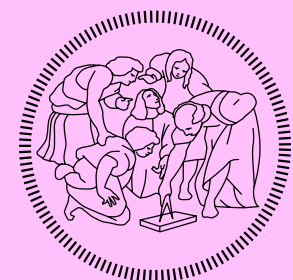
- change visual ratio > stretch & squeeze

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