

# LES OUTILS DE DATAVISUALISATION

Ce document a été entièrement conçu par Nathalie Alouis, enseignante de Biologie, et Jean-Baptiste Chaignier, enseignant de Sciences Physiques, de l'académie de Créteil; et mis à disposition dans le cadre des outils éducatifs gratuits de la Fondation Tara Océan.





# COLLECTER DES DONNEES



# GOOGLE FORMS

- Création totale et libre du formulaire
- Récupération des données dans Google sheets

The screenshot displays the Google Forms editor interface. At the top, the title "Formulaire sans titre" is visible, along with a folder icon and the text "Modifications enregistrées dans Drive". The interface is divided into two tabs: "QUESTIONS" (active) and "RÉPONSES". The main content area shows a form titled "Formulaire de Nathalie" with a subtitle "Description du formulaire". A question is being edited: "Google forms est-il facile à utiliser ?". The question type is set to "Choix multiples". The options are "Oui", "Non", and "Ajouter une option ou AJOUTER 'AUTRE'". The "Oui" option is currently selected. At the bottom right, there are icons for duplicating, deleting, and a toggle for "Obligatoire" (required).

# KOBO TOOLBOX

- Remplissage simple du formulaire, sur tablette et smartphone
- Récupération simple des données
- Géolocalisation

KoBo Toolbox

HOME FEATURES GET STARTED ABOUT US CONTACT SUPPORT

# DATA COLLECTION JUST BECAME EASIER

EASY FORM CREATION

WITH SUPPORT FROM

HARVARD HUMANITARIAN INITIATIVE BRIGHAM AND WOMEN'S HOSPITAL MacArthur Foundation RESCUE OCHA UN AID TIDES CONRAD N. HILTON FOUNDATION FIDELITY FOUNDATION CISCO HUMANITY UNITED




# LES CATALOGUES D'OUTILS




# BOITE À OUTILS EXPOVIZ

- Choix par diagramme, niveau ou type.

**la fonderie**  
Agence numérique  **Paris-France**

PRÉSENTE

# EXPOVIZ



LA BOÎTE À OUTILS

Collection des applications et services permettant de créer des visualisations de données.

LES FONCTIONS

- [GRAPHIQUES ET DIAGRAMMES](#)
- [GÉOLOCALISATION ET CARTES](#)
- [FRISES TEMPORELLES](#)
- [TEXTES ET MOTS-CLÉS](#)
- [ÉDITION INFOGRAPHIQUE](#)
- [PRÉSENTATION VISUELLE](#)

### TWEETOGRAPHY



<http://www.tweetography.com>

Tweetography est une application web qui permet de visualiser l'évolution géographique des tweets.

*cartes, webapps, websocial, debutants*

il y a 4 ans 3 Partager

### TIMETOAST



<http://www.timetoast.com>

Timetoast offre la possibilité de créer des timelines en flash.

*timelines, webapps, debutants*

il y a 4 ans 2 Partager

### DRASTIC TREEMAP



<http://www.drasticdata.nl/DrasticTreemapGApi>

Drastic Treemap est une librairie pour la création de treemaps (utilise JavaScript et Flash).

*graphes, librairies, avances*

il y a 4 ans Partager

### MACROFOCUS



<http://www.macrofocus.com/>

MacroFocus est une suite de logiciels permettant la création de nombreux types de visualisation de données.

*graphes, intermediaires, bureau*

il y a 4 ans 5 Partager

### WEAVE



<http://oicweave.org/>

Weave est une plateforme de développement d'applications web qui permet la visualisation de tout type de données sous forme de cartes, graphiques, etc.

### OPENLAYERS



<http://openlayers.org/>

OpenLayers est une librairie JavaScript pour l'affichage de cartes sur les sites web.

*cartes, librairies, avances, opensource*

il y a 4 ans 5 Partager

### LOVELY CHARTS



<http://www.lovelycharts.com/>

Lovely Charts est une application web pour la création de diagrammes de toutes sortes.

*graphes, presentations, webapps, debutants*

### PANOPTICON



<http://www.panopticon.com>

Panopticon est un logiciel ainsi que des outils de développement pour l'analyse et la visualisation de données interactives.

*avances, bureau, graphes, librairies*

# DATA VISUALISATION CATALOGUE

- Très complet
- Choix par objectif ou par diagramme

The Data Visualisation Catalogue

[About](#) • [Suggest](#) • [Shop](#) • [Resources](#)

What do you want to show?



Comparisons



Proportions



Relationships



Hierarchy



Concepts



Location



Part-to-a-whole



Distribution





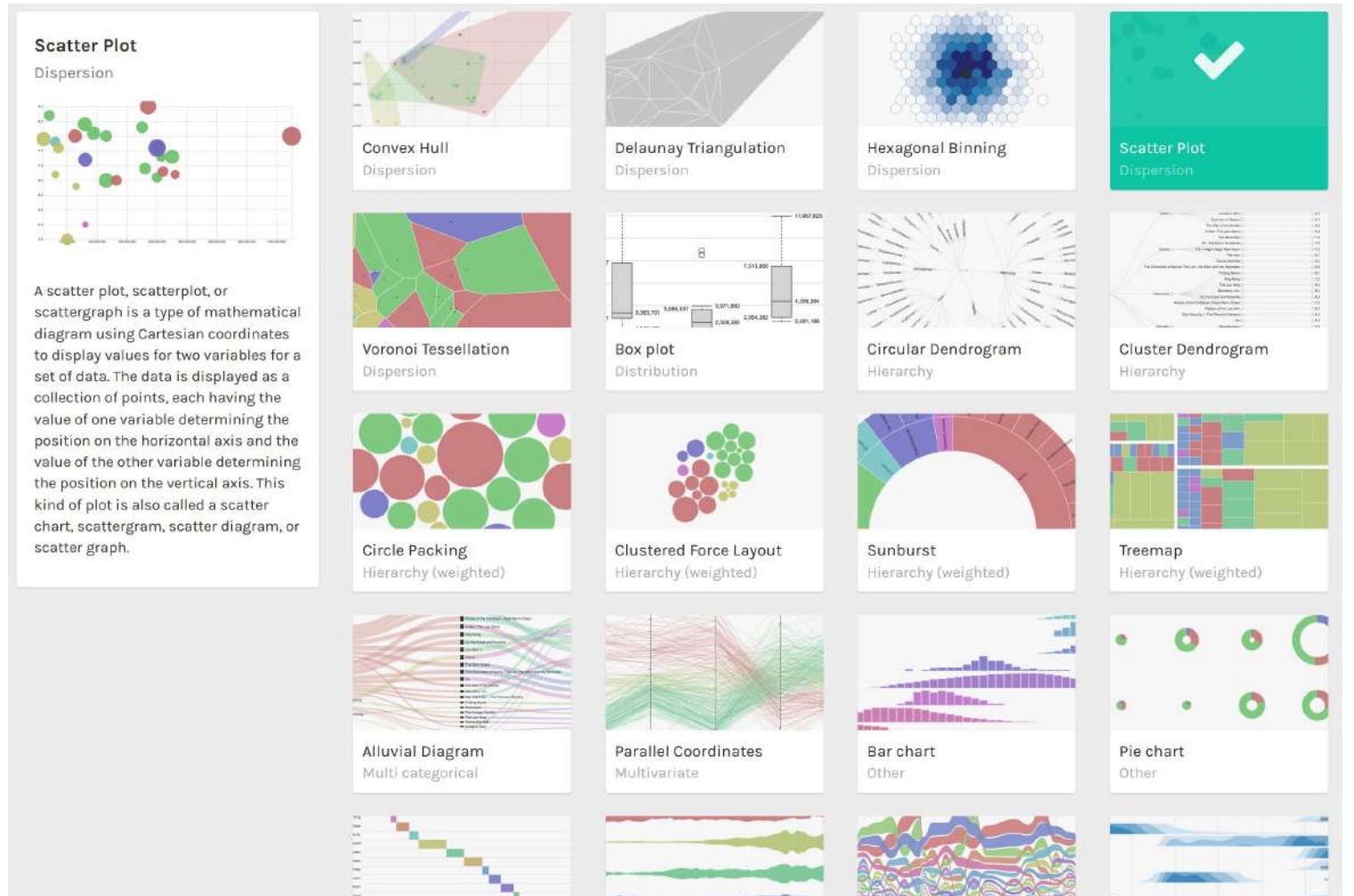
# LES INCONTOURNABLES





# RAW

- Simple
- Diversité de diagrammes
- Export : code, svg, json, png



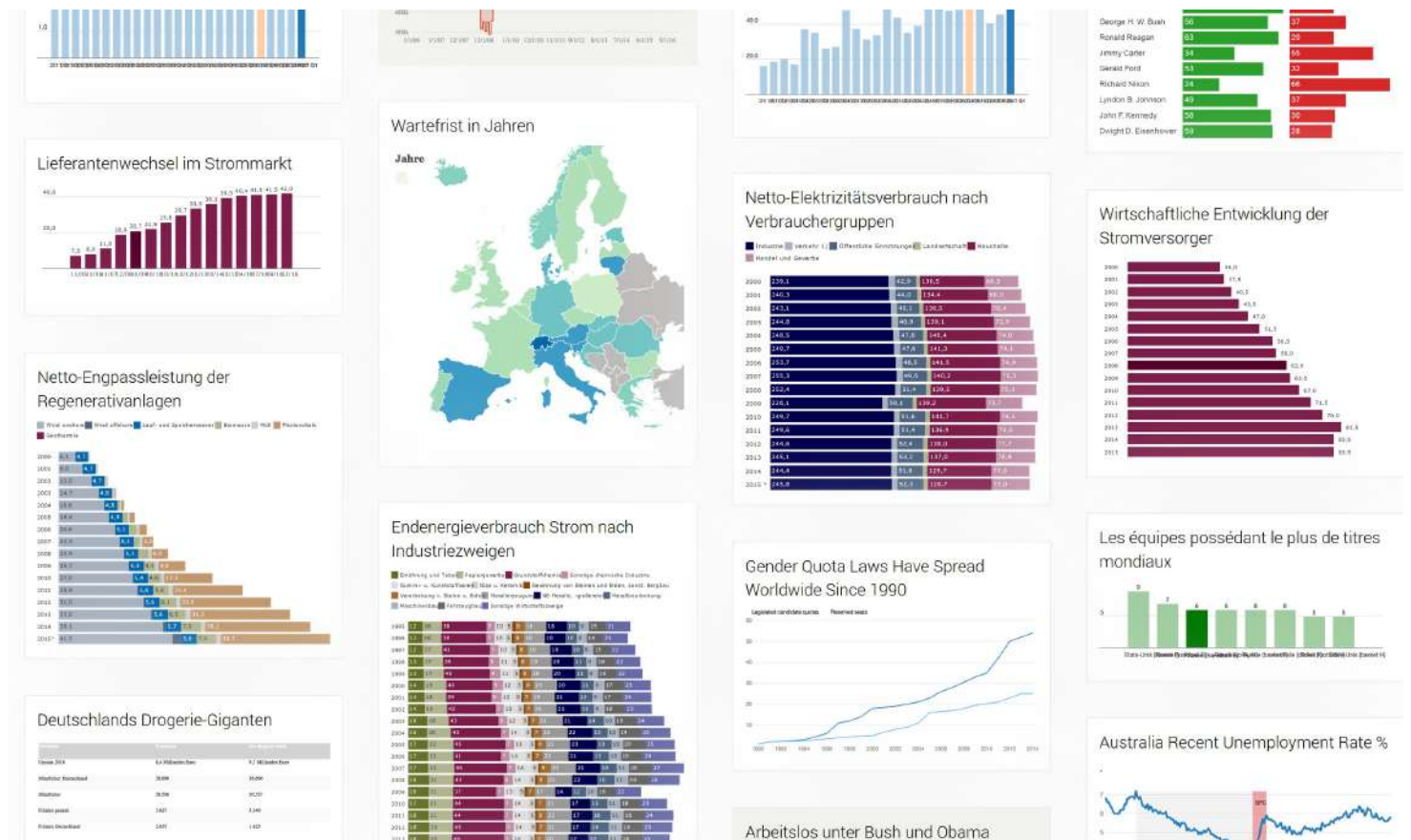
# INFOGR.AM

- Simple
- Grande diversité

The screenshot displays the infogr.am dashboard interface. At the top, there is a navigation bar with the logo 'infogr.am' and menu items: 'Library', 'Analytics', 'Teams', and 'Learn'. Below the navigation bar, the dashboard is divided into two main sections: 'Start with design:' and 'Start with data:'. The 'Start with design:' section contains three icons: 'Infographic or Report', 'Chart or Graph', and 'Map'. The 'Start with data:' section is currently active, showing a 'Create a new chart' dialog box. This dialog box lists various chart types with their respective counts: Line, Bar (4), Column (3), Pie (4), Multiple Axes (4), Area (5), Scatter (3), Bubble (2), Pictorial (3), Hierarchy (2), Table, Gauge (2), Wordcloud, Treemap, Financial (2), Timer, and Facts & Figures. The 'Area (5)' option is highlighted. To the right of the list, there are five preview cards for different area chart styles: 'Area', 'Stacked Area', '100% Area', 'Stream Graph', and 'Stepped Area'. Below the 'Start with design:' section, there is a folder icon labeled 'All Infographics' and a preview of an 'Untitled Infographic' showing a line chart with the title 'Fuel1'.

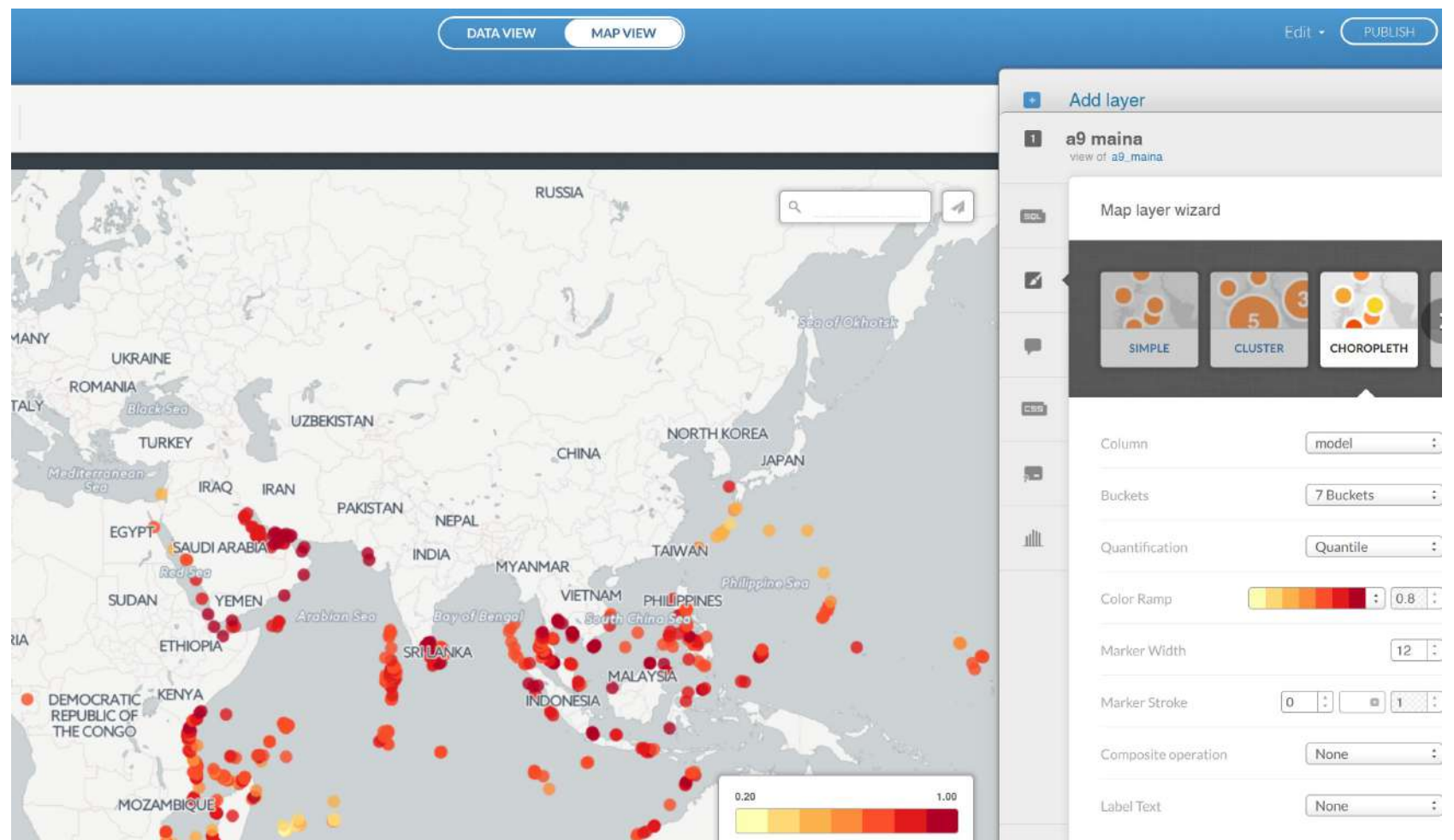
# DATAWRAPPER

- Réalisation de diagrammes et de cartes



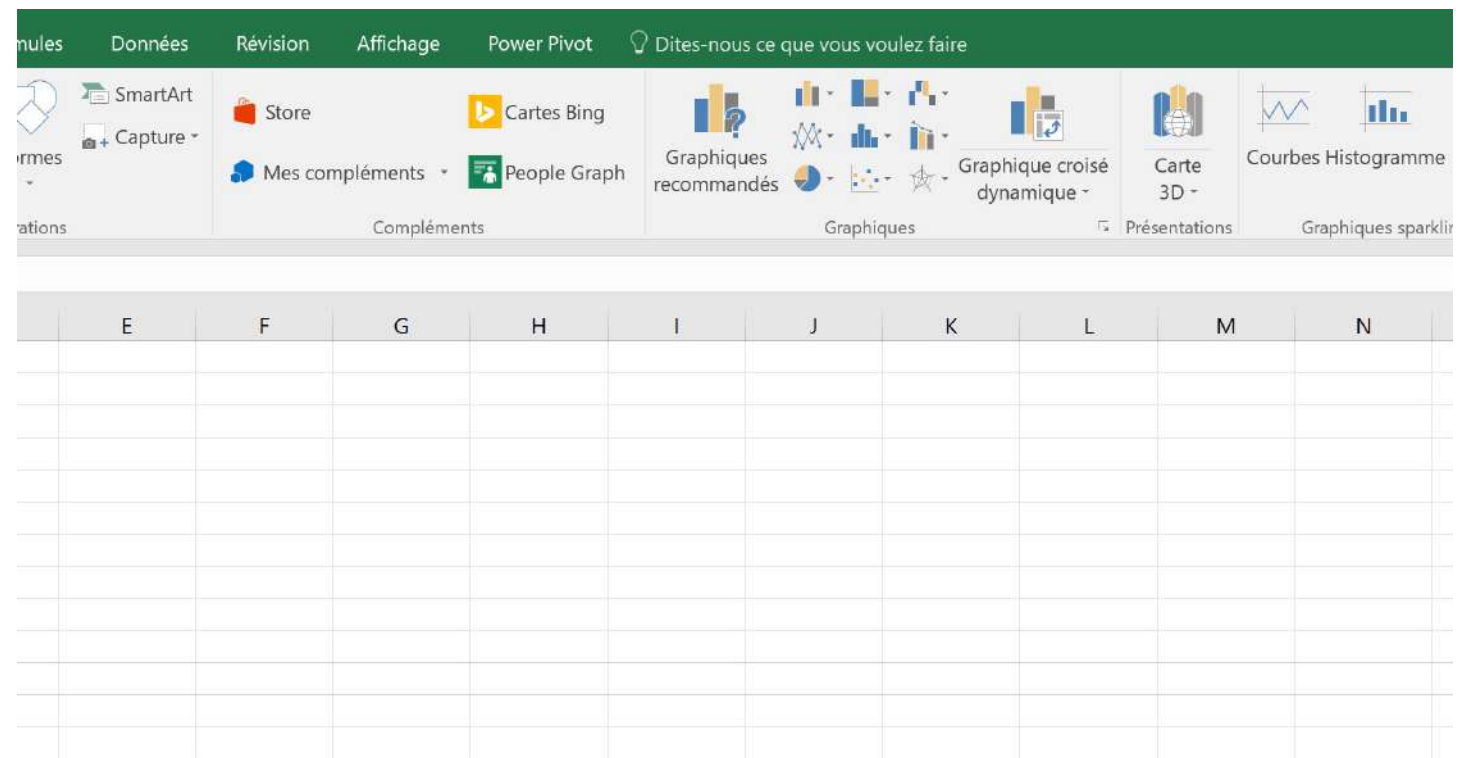
# CARTO

- Essentiel pour la cartographie



# EXCEL

- Et oui !



# GOOGLE CHARTS

- Grande diversité de représentations
- Facilité
- Lien avec google sheets

Google Charts

Rechercher Tous les


ACCUEIL GUIDES RÉFÉRENCE ASSISTANCE

Annotation Charts  
Area Charts  
Bar Charts  
Bubble Charts  
Calendar Charts  
Candlestick Charts  
Column Charts  
Combo Charts  
Diff Charts  
Donut Charts  
Gantt Charts  
Gauge Charts  
GeoCharts  
Histograms  
Intervals  
Line Charts  
Maps  
Org Charts  
Pie Charts  
Sankey Diagrams  
Scatter Charts  
Stepped Area Charts  
Table Charts  
Timelines  
Tree Map Charts  
Trendlines

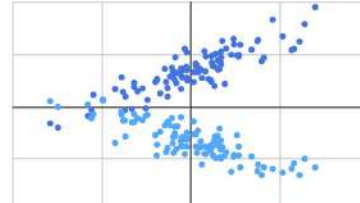
Our gallery provides a variety of charts designed to address your data visualization needs. These charts are based on pure HTML5/SVG technology (adopting VML for old IE versions), so no plugins are required. All of them are interactive, and many are pannable and zoomable. Adding these charts to your page can be done in [a few simple steps](#).

Some additional community-contributed charts can be found on the [Additional Charts page](#).

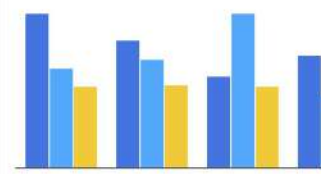
Geo Chart




Scatter Chart



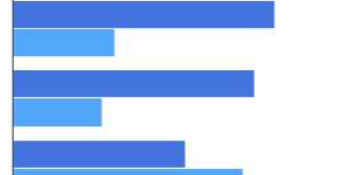
Column Chart



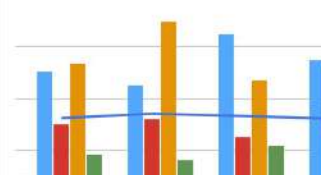
Histogram



Bar Chart



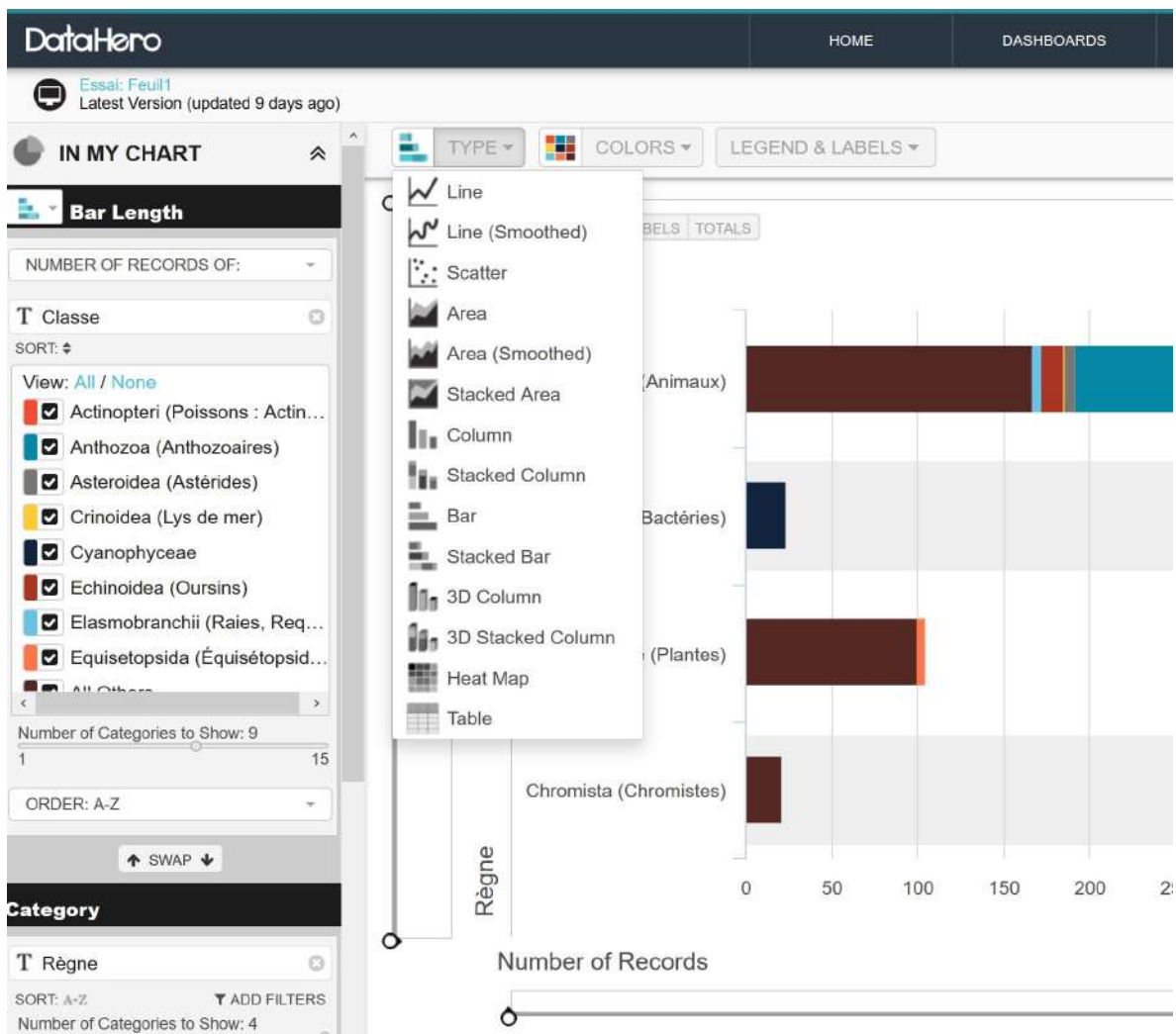
Combo Chart





# DATA HERO

- Simplicité
- Réalisation de « tableaux », contenant plusieurs graphiques.



# DATAMATIC

- 74 diagrammes différents, dont cartes, certains interactifs.

The screenshot displays the Datamatic website interface. At the top, there is a navigation bar with the logo and links for 'Visualizations', 'Editor', and 'Pricing'. The main header features the text 'Editable data visualizations for the web' and a sub-header 'Easily pick a data visualization template, customize it, and publish on your website.' Below this, there are 'SIGN UP' and 'SIGN IN with your Google Account' buttons. A secondary navigation bar lists visualization types: 'All', 'Map', 'Pie', 'Area', 'Line', 'Bar', 'Column', 'Scatter', and 'Misc'. The 'All (74)' section shows three preview cards: 'Simple map of Europe' (a map of Europe with the UK highlighted in blue), 'Multiple lines chart' (a line chart with five data series in different colors), and 'Stacked column' (a pie chart divided into seven categories labeled Category 5 through Category 7).



# TABLEAU PUBLIC

- Logiciel à télécharger
- Filtres possibles

tableau+public GALERIE AUTEURS BLOG RESSOURCE

LES DONNÉES PEUVENT PRODUIRE DES VISUALISATIO

Visualisez et partagez vos données en quelques minutes, gratuitement

Indiquez votre adresse e-mail

Télécharger l'application

Disponible sur Windows et Mac | Politique de confidentialité



Explorez vos données avec l'application



Enregistrez vos visualisations dans votre profil



Partagez vos visualisations

# TIKI TOKI

- Personnalisable
- Pour site, mais aussi pdf

The screenshot displays the Tiki-Toki website interface. The main area features a vibrant, multi-colored timeline background with a central event pop-up for "Me voici !" on 27th March 1979, with the text "Arrivée à la maison" and a "More" link. The top navigation bar includes "Tiki-Toki", "Ma vie", and links for "ABOUT THIS TIMELINE", "CONTACT", "LOGOUT", and "ADMIN". A "TIMELINE ADMIN GUIDE" sidebar provides instructions on editing stories and settings. The right-hand panel, titled "Ma vie (Show all)", contains various settings such as "Title", "Start date", "End date", "Intro", "About", "Spacing", "View type", "BG color", "Color 2", "BG image", "Zoom", and "Begin at". The bottom of the interface shows a monthly navigation bar for 1979 and 1980, and a year navigation bar from 1980 to 2005.



# RÉALISER UNE INFOGRAPHIE

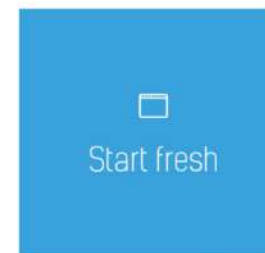


# EASEL.Y

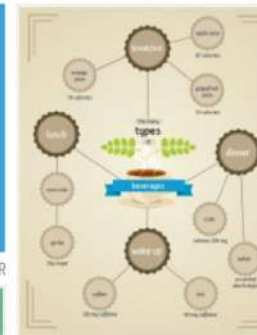
- Prise en main aisée
- Nombreux modèles
- Thème



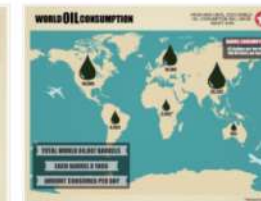
Cliquez sur un modèle ci-dessous pour commencer



empty PARTAGER



meals PARTAGER



oil PARTAGER



website PARTAGER



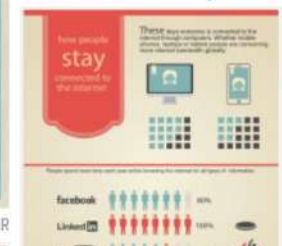
songs PARTAGER



Text Learn Spanish desde 0 años, conectarlos well de amorosos. Crafts Programming Games Teach



mobile PARTAGER



facebook 80% linkedin 10% youtube 10%

# VISUAL.LY

- Même principe qu'easel.ly

The screenshot shows the Visual.ly website homepage. At the top left is the Visual.ly logo, which consists of a colorful triangle icon followed by the text "visually". To the right of the logo is a navigation menu with the following items: PRODUCTS, SOLUTIONS, HOW IT WORKS, OUR PORTFOLIO, and PRICING. Below the navigation is a large teal banner with the text "See What We Can Do" in white, followed by the subtitle "Browse our design portfolio to get inspired and see what our talented teams can deliver." and a white button with the text "GET A QUOTE". Below the banner is a filter section with the text "Filter by:" followed by three dropdown menus: "ALL CONTENT TYPES", "ALL INDUSTRIES", and "ALL AUDIENCE". At the bottom of the page, there are four small image thumbnails: a person standing on a pedestal in front of a patterned wall, a smartphone surrounded by social media icons, a person standing on a pedestal with a "FAIL" sign above them, and a person looking at a laptop screen.

# PIKTOCHART

[HOME](#)[FEATURES](#)[PRICING](#)[TEMPLATES](#)[BLOG](#)[SUPPORT](#)[LOGIN](#)

## Presentation

Delight and blow your prospects away with visually-enticing infographics, which can be presented on slideshows with our Presentation Mode.

[View 200 more](#)

## 3 WAYS

### SOCIAL VIDEO MARKETING

CAN PROPEL ↑ YOUR BRAND?

Social video marketing plays on one of the most important aspects of basic human nature:

### THE ART OF STORYTELLING



SOCIAL VIDEOS



VIRAL VIDEOS



METTRE EN SCÈNE



# POWTOON

**Powtoon** | So Everyone Can Animate

[CREATE](#) [TUTORIALS](#) [PRICING](#) [4EDU](#) [BLOG](#) [SUPPORT](#) [SIGN UP FOR FREE](#)

- Pour réaliser des vidéos
- Des personnages, décors



Bring  
**awesomene**  
to your  
classroom!

It's **FREE** and it's awesome!

**TRY IT NOW!**



# EXPLEE

## Vidéos créées avec Explee



What is Explee?



The power of animated videos

[+](#) Créez votre première vidéo

# GENIAL.LY

## ■ Infographie interactive

Genially

CHANGER DE LANGUE

Se connecter

Inscription



### DES CONTENUS PLUS FASCINANTS

IMPRESSIIONNEZ VOTRE PUBLIC

ENRICHISSEZ VOS CRÉATIONS AVEC **DE L'INTERACTIVITÉ**, **DE L'ANIMATION**, DES EFFETS ET DES **CONTENUS EXTERNES** POUR CRÉER DES HISTOIRES MAGIQUES QUI SE CONVERTIRONT EN INOUBLIABLES



### FACILITÉ DE CRÉATION

SIMPLE AVEC DES RÉSULTATS PUISSANTS

Réalisez **des contenus web** avant inaccessibles pour les utilisateurs **SANS CONNAISSANCES EN PROGRAMATION**. Utilisez nos **modèles** pour obtenir des résultats spectaculaires .



### TOUT EN UN

UN OUTIL, BEAUCOUP DE SOLUTIONS

Avec Genially vous pourrez créer toutes les ressources digitales nécessaires et enrichir votre contenu en intégrant des centaines de liens externes comme Spotify, Google Maps, Réseaux Sociaux, Amazon, Youtube, actualités...



### DIFFÉRENCIATION

DO IT DIFFERENT, DO IT GENIALLY

Réalisez des contenus captivants qui se distinguent



### FLEXIBLE ET VIRAL

PLUS PROCHE DE VOTRE PUBLIC

Partagez vos créations par E-mail, WhatsApp ou



### QUANTIFIABLE

CONNAISSEZ VOTRE IMPACT

Suivez comment vos créations sont utilisées en



A PROGRAMMER



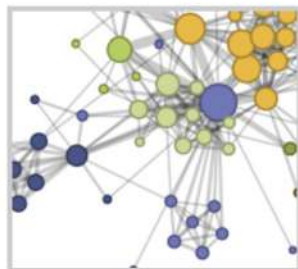
# PROTOVIS

## Protovis

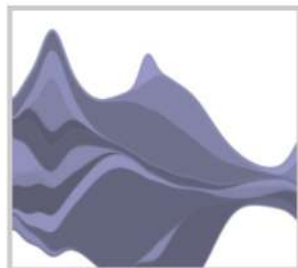
A GRAPHICAL TOOLKIT FOR VISUALIZATION

[Overview](#) [Examples](#) [Documentation](#) [Download](#)

### Gallery



Force-Directed Layout



Streamgraphs



## Protovis A GRAPHICAL APPROACH TO VISUALIZATION

Protovis composes custom views of data with simple marks such as [bars](#) and [dots](#). Unlike low-level graphics libraries that quickly become tedious for visualization, Protovis defines marks through dynamic properties that encode data, allowing [inheritance](#), [scales](#) and [layouts](#) to simplify construction.

Protovis is free and open-source, provided under the [BSD License](#). It uses JavaScript and [SVG](#) for web-native visualizations; no plugin required (though you will need a modern web browser)! Although programming experience is helpful, Protovis is mostly declarative and designed to be learned [by example](#).

**Protovis is no longer under active development.**

The final release of Protovis was [v3.3.1 \(4.7 MB\)](#). The Protovis team is now developing a new visualization library, [D3.js](#), with improved support for animation and interaction. D3 builds on many of the concepts in Protovis; for more details, please read the [introduction](#) and browse the [examples](#).

This project was led by [Mike Bostock](#) and [Jeff Heer](#) of the [Stanford Visualization Group](#), with significant help from [Vadim Ogievetsky](#). We welcome your [comments](#) and [suggestions](#).

### Updates

*June 28, 2011* - Protovis is no longer under active development. We recommend switching to [D3.js](#)!

*September 17, 2010* - Release 3.3 is available on [GitHub](#).

*May 28, 2010* - ZOMG! Release 3.2 is finally available! Enjoy the powerful new layouts and the variety of new examples in the gallery. We've also moved from SVN to Gitorious to make it easier for you to participate in development!

