Data Visualization y Storytelling

Alejandro Vidal - @doblepensador

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data visualization

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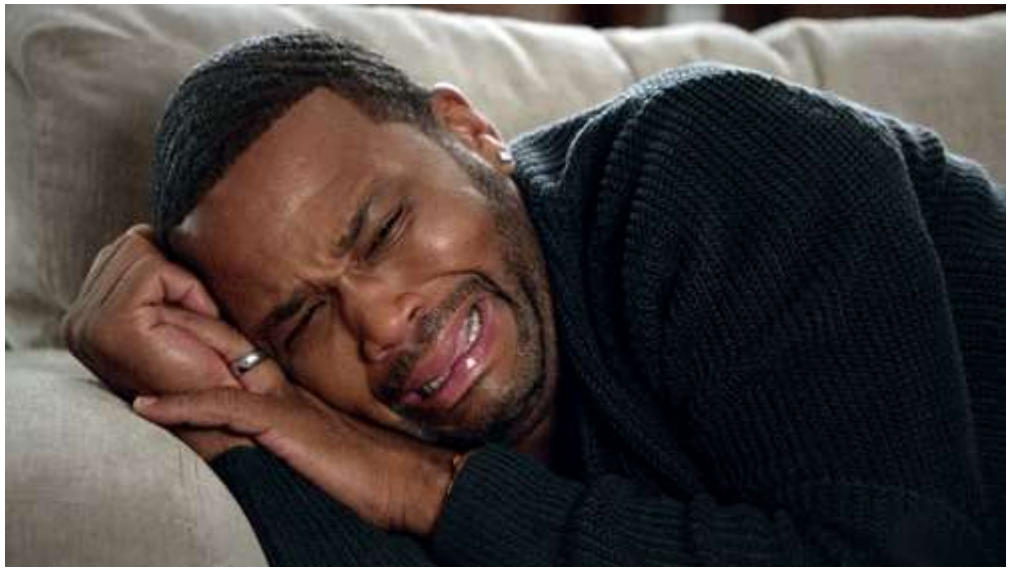


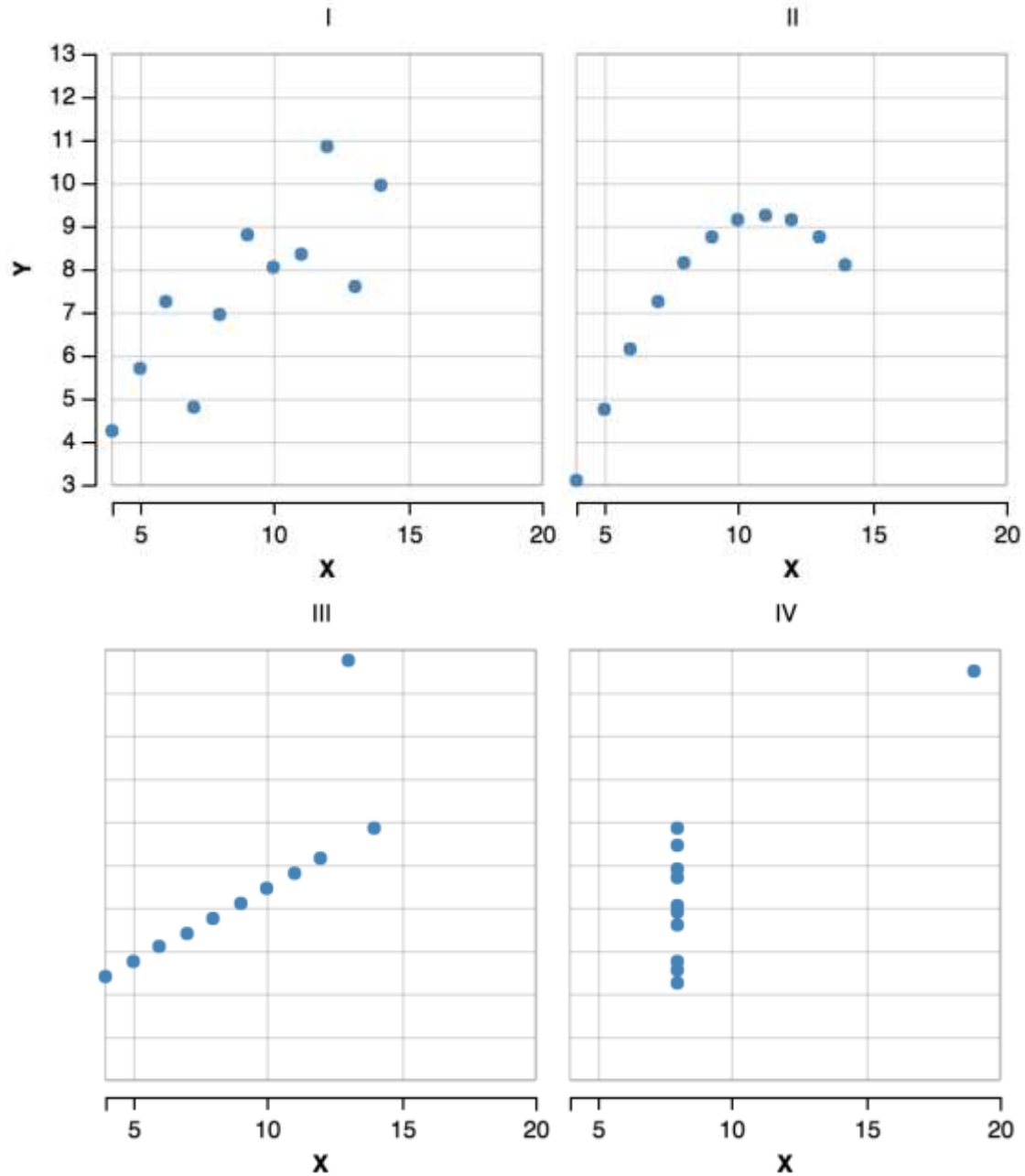
Fig 1: Yo cuando veo esto

Si de mayor quiero ser visualizador

¿Qué tengo que aprender?

Lo primero: ¿Por qué?

	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
Media	9	7.5	9	7.5	9	7.5	9	7.5
Varianza	11	4.12	11	4.12	11	4.12	11	4.12
Corr. Pearson	0.82		0.82		0.82		0.82	
Regresión	$y = 3+0.5x$		$y = 3+0.5x$		$y = 3+0.5x$		$y = 3+0.5x$	


I
II
III
IV
Y
X
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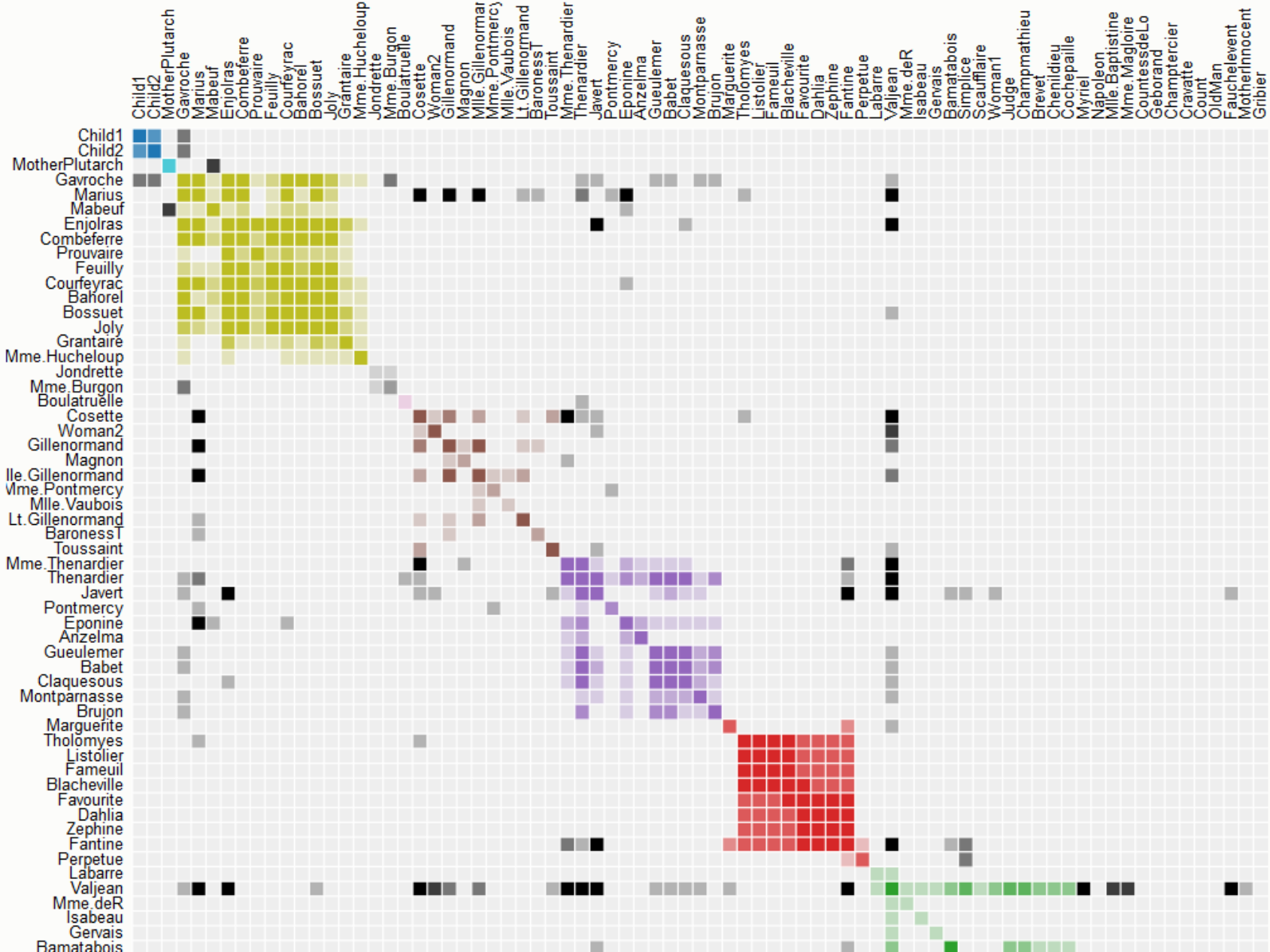
20

Les Misérables Co-occurrence



Order: by Cluster

This matrix diagram visualizes character co-occurrences in Victor Hugo's *Les Misérables*.

Each colored cell represents two characters that appeared in the same chapter; darker cells indicate characters that co-occurred more frequently.

Use the drop-down menu to reorder the matrix and explore the data.

Built with d3.js.

Mundo de visualización:

Ejes, tribus e islas

Eje artístico - funcional

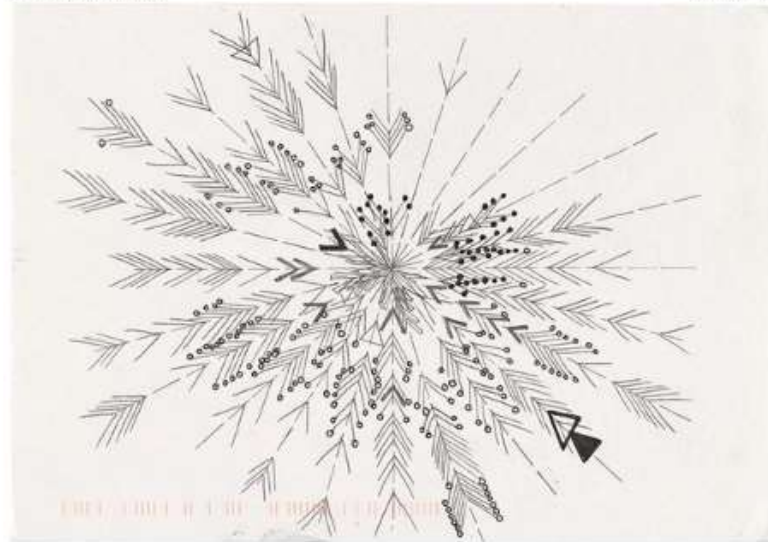
dear-data.com

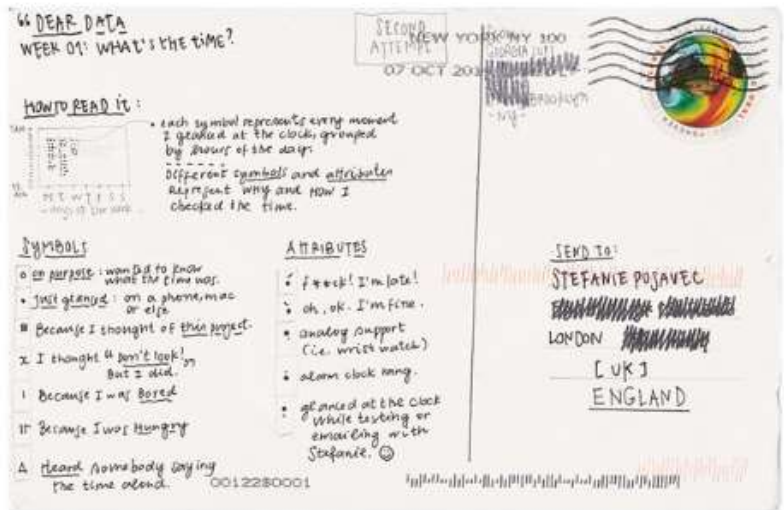
GIORGIA

week one

a week of clocks

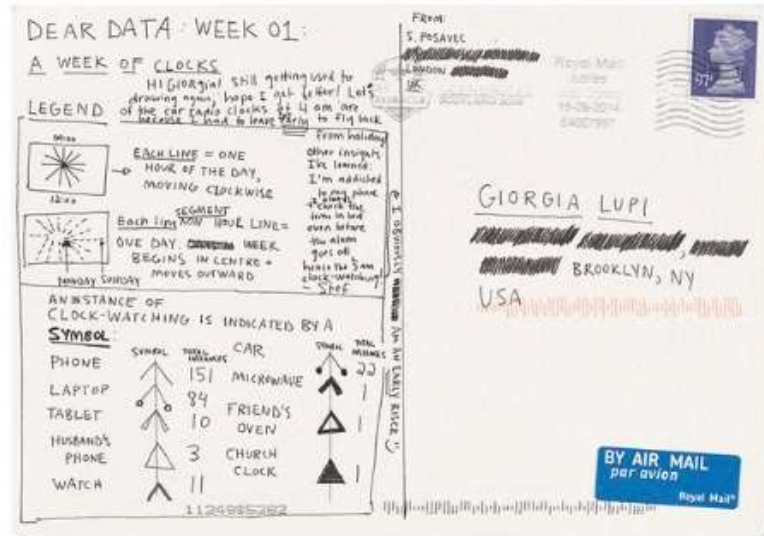
Stefanie



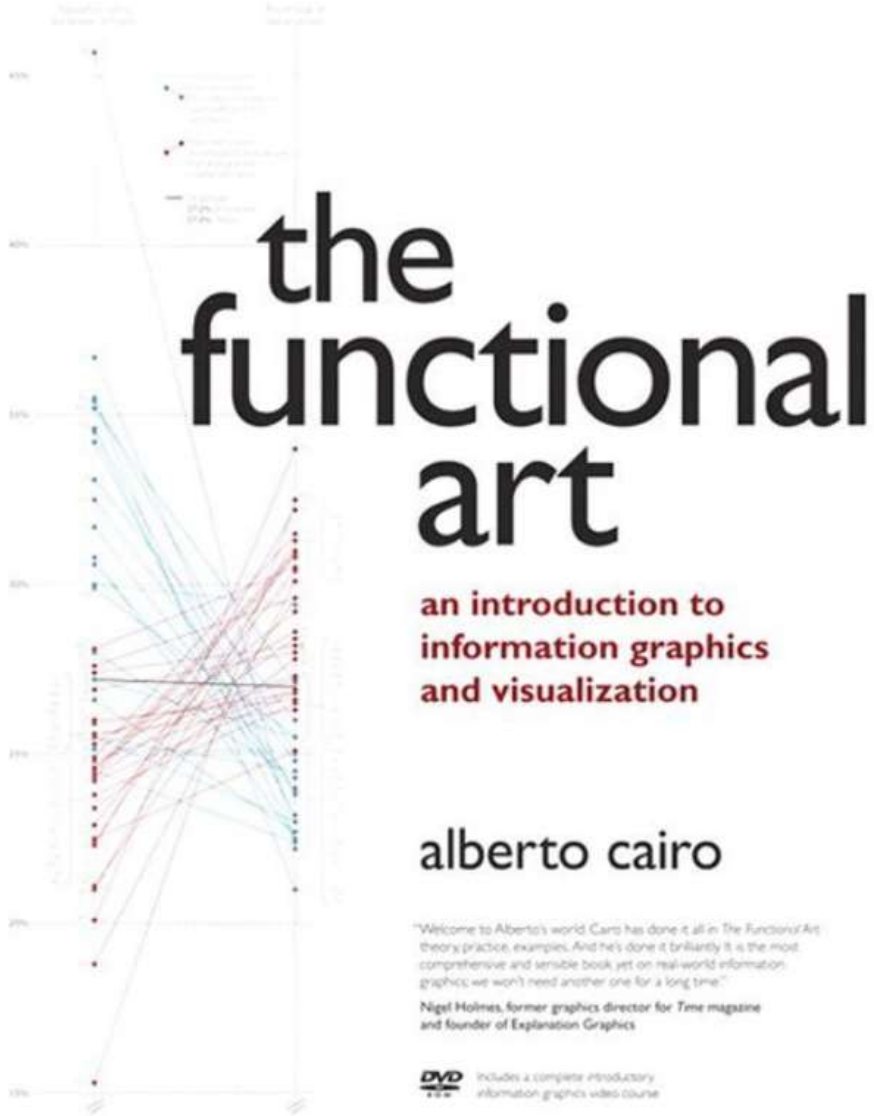


Drawing her first postcard, Giorgia had an idea for her whole collection: from now on every time she tracks something related to Stefanie, or to *Dear Data*, she uses a special pen to represent it!

• *pink ink pen!*



This week Giorgia and Stefanie tried gathering data in small notebooks (tedious), but soon switched to making notes on their phones (much easier). Stefanie's favourite clock to capture: a bell tolling the time in a town in Devon.



"El arte funcional"

Libro muy recomendado

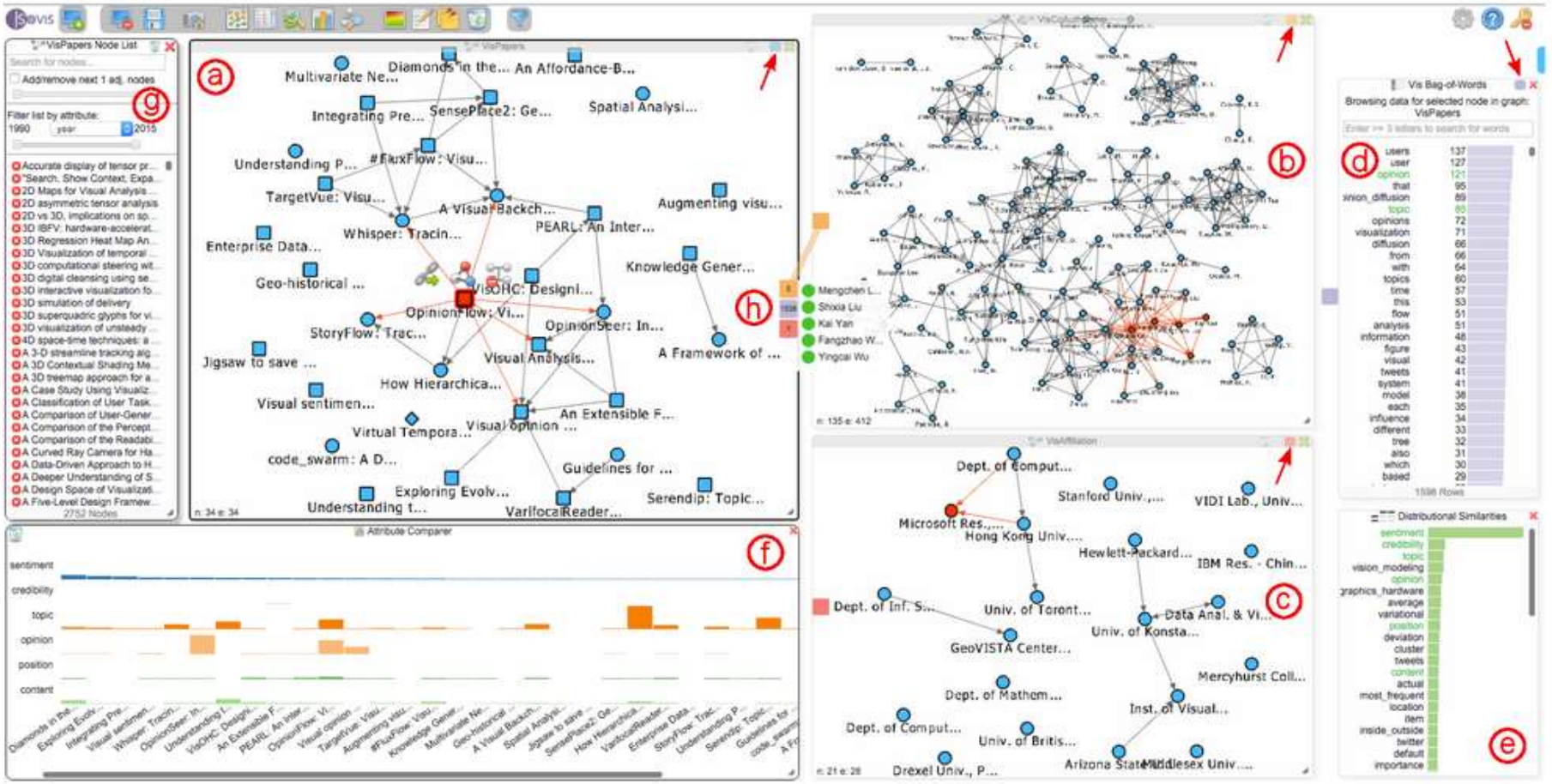


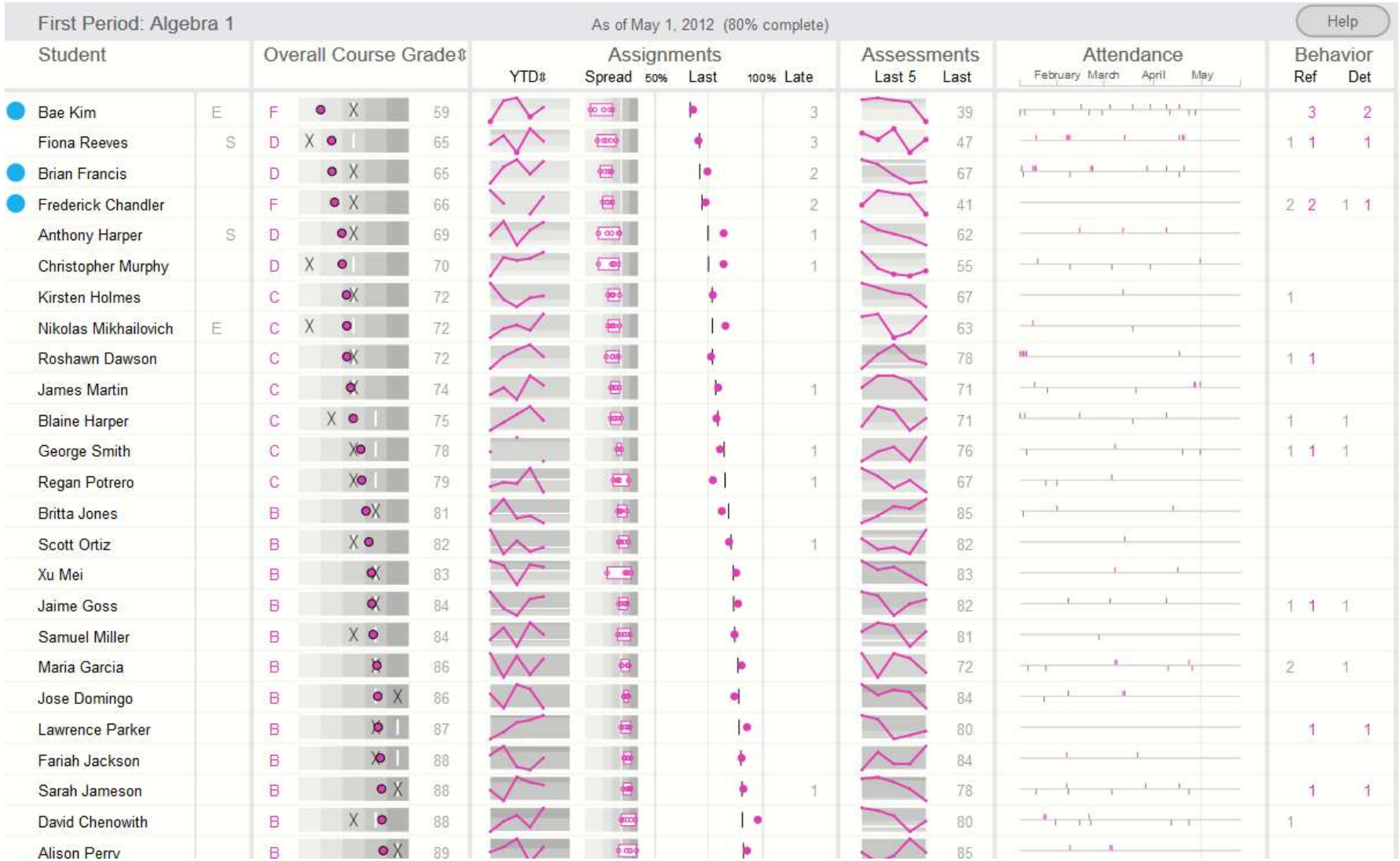
Figure 4. An analysis session in progress. Here, a mapping between a paper citation network (a), a co-authorship network (b) and an affiliation network (c) is explored. The bag-of-words chart (d) shows all terms for the... Continue Reading

Published in Informatics 2017

Visual Analysis of Relationships between Heterogeneous Networks and Texts: An Application on the IEEE VIS Publication Dataset

Björn Zimmer, Magnus Sahlgren, Andreas Kerren

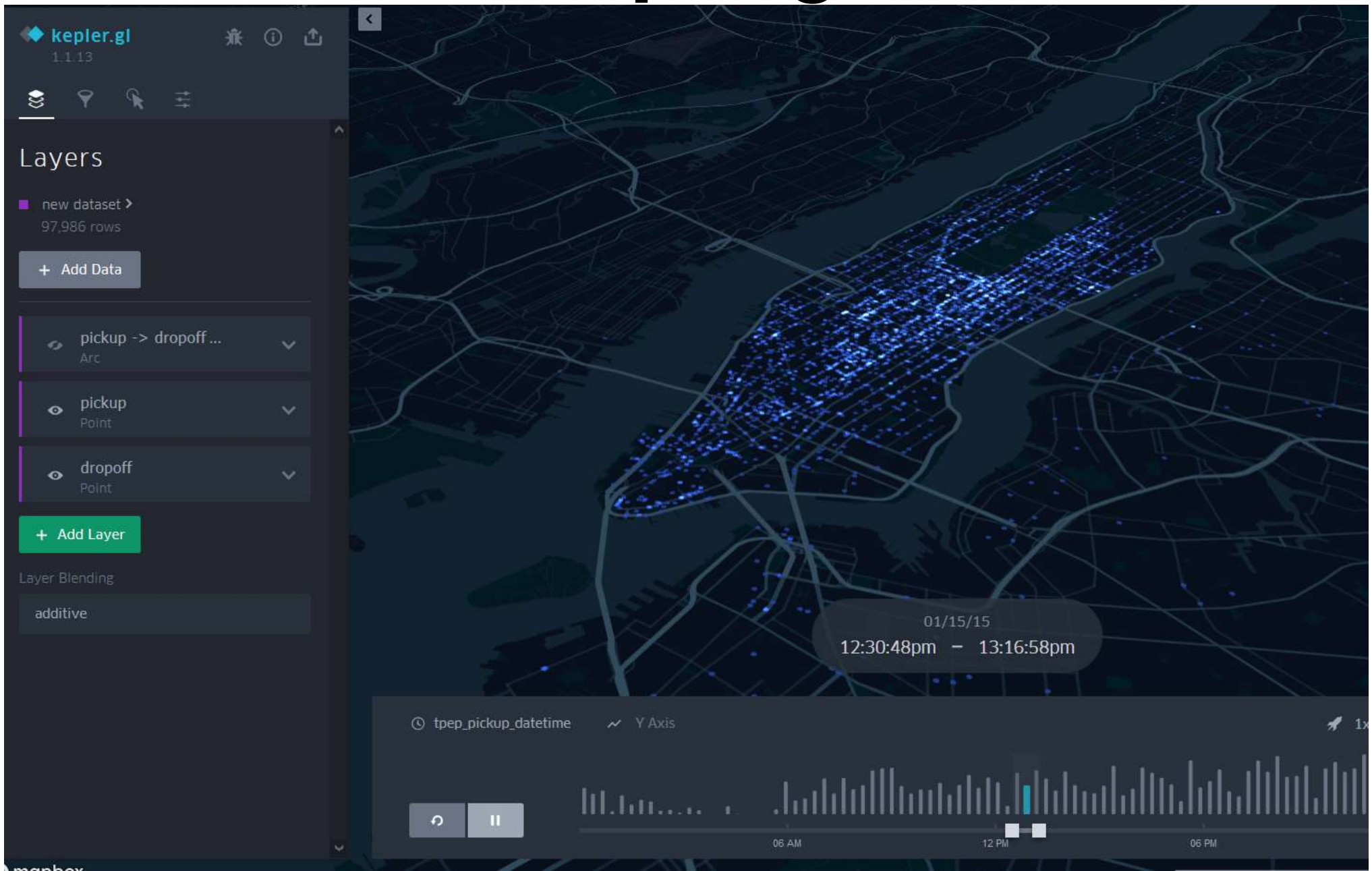
No es feo contra bonito sino que objetivo se persigue



“Student Dashboard” de Stephen Few

Eje estático - interactivo

kepler.gl


kepler.gl
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Layers
new dataset
97,986 rows
+ Add Data
pickup -> dropoff ...
Arc
pickup
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Layer Blending
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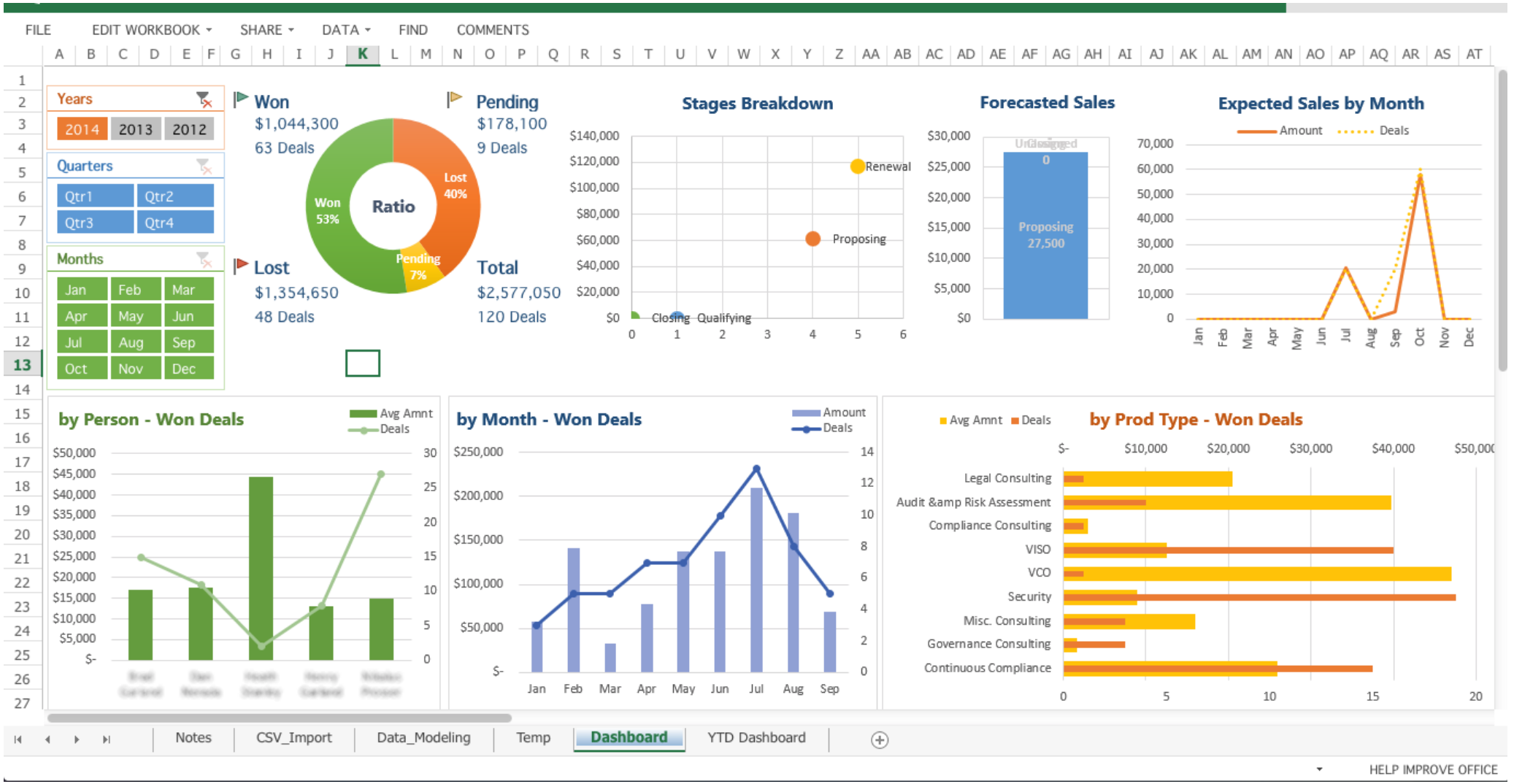
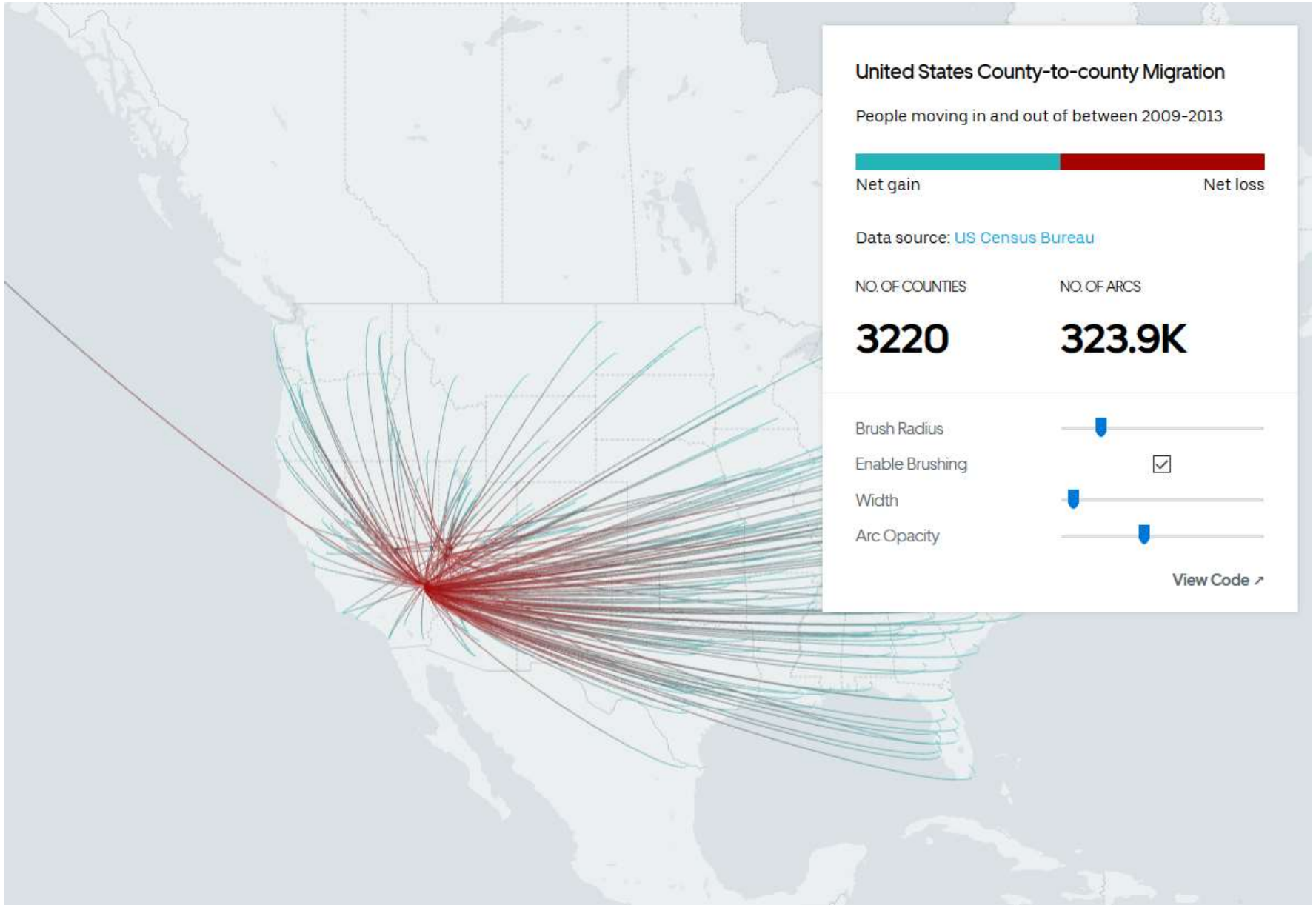
dashboard en Excel #1092381



Isla del alto rendimiento

deck.gl


United States County-to-county Migration
People moving in and out of between 2009-2013
Net gain
Net loss
Data source: US Census Bureau
NO. OF COUNTIES
3220
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323.9K
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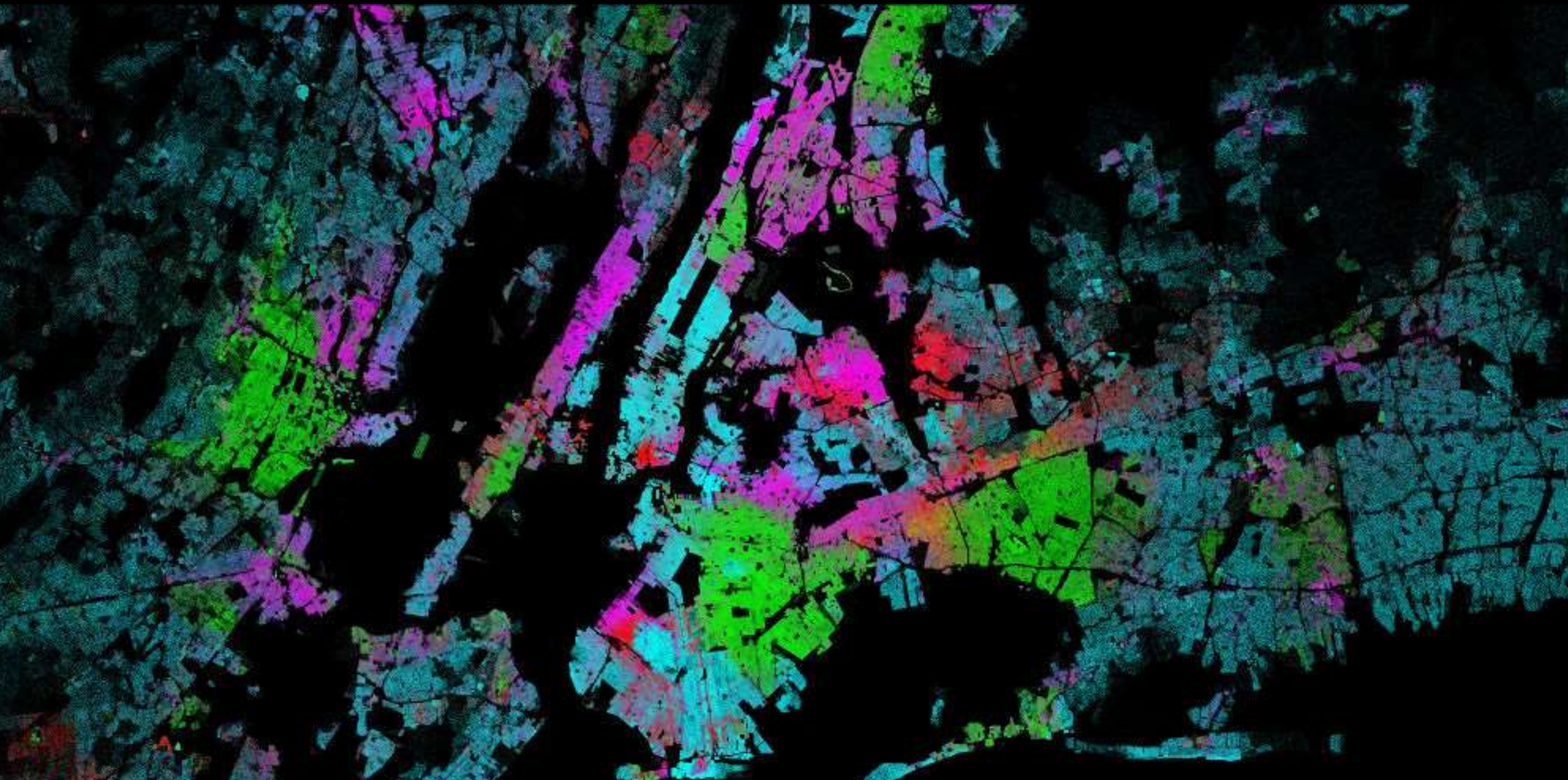
View Code ↗

datashader



Tribu analítica / científico de datos

(falsa) Guerra Python vs R

Navigation

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All Tools

This page lists libraries for visualizing data in Python. If you see any missing Python tools, please open a PR for tools.yml. Tools are sorted in each category according to their total downloads per month when added to the list. Note that conda downloads are computed by summing total downloads across the defaults channel, conda-forge, and bioconda; data for other channels is not currently included.

Core

Python libraries on which multiple higher-level libraries are built.

Name	Stars	Contributors	Downloads	License	Docs	PyPI	Conda	Sponsors
matplotlib	11k	423	8.7M/month	PSF	up	v3.1.3	v3.1.3	
plotly.py	8k	104	2.3M/month	MIT	up	v4.5.0	v4.4.1	
bokeh	13k	392	963k/month	BSD-3-Clause	up	v1.4.0	v1.4.0	

High-Level Shared API

Libraries sharing the Pandas .plot() API, built upon the core Python or JS libraries.

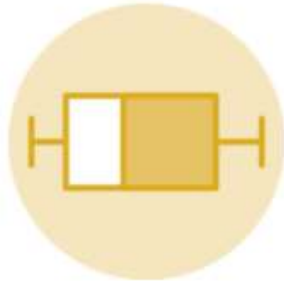
Name	Stars	Contributors	Downloads	License	Docs	PyPI	Conda	Sponsors
pandas	23k	414	18M/month	BSD	up	v1.0.1	v1.0.1	
xarray	1.5k	200	169k/month	Apache	up	v0.15.0	v0.15.0	
cufflinks	1.5k	26	140k/month	MIT	up	v0.17.0	-	-
hvplot	240	16	9.6k/month	BSD	up	v0.5.2	v0.5.2	
Pandas-Bokeh	331	6	4.7k/month	MIT	up	v0.4.2	-	-

Distribution


Violin


Density


Histogram


Boxplot


Ridgeline

Correlation


Scatter


Heatmap


Correlogram


Bubble


Connected scatter


Density 2d

Ranking

Tribu narrativa

PARABLE OF THE POLYGONS

A PLAYABLE POST ON THE SHAPE OF SOCIETY

by vi hart + nicky case

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italiano | magyar | nederlands | हिन्दी | čeština | Русский | العربيّة | Українська

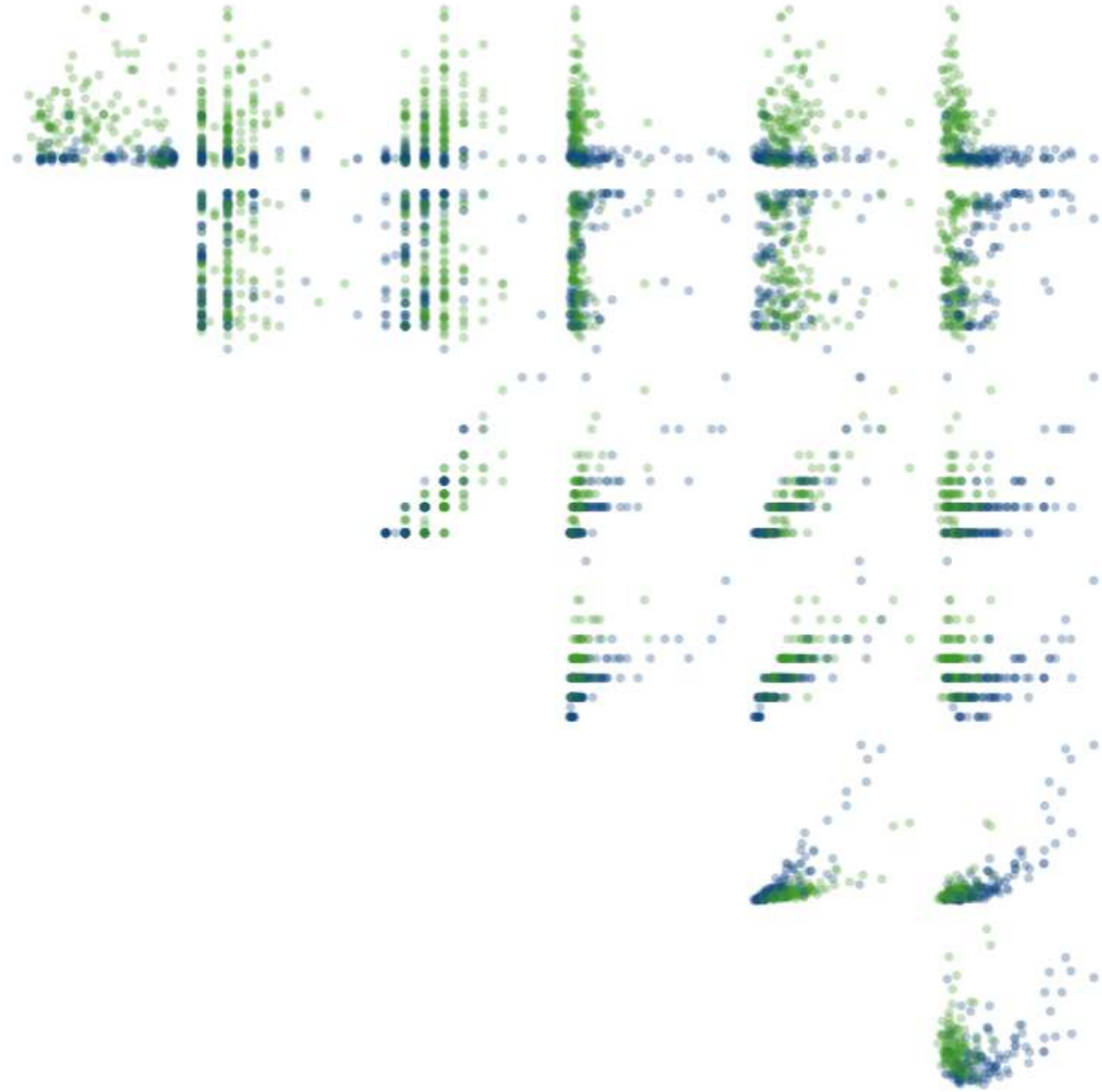
R2
D3

Una introducción visual al machine learning

Español

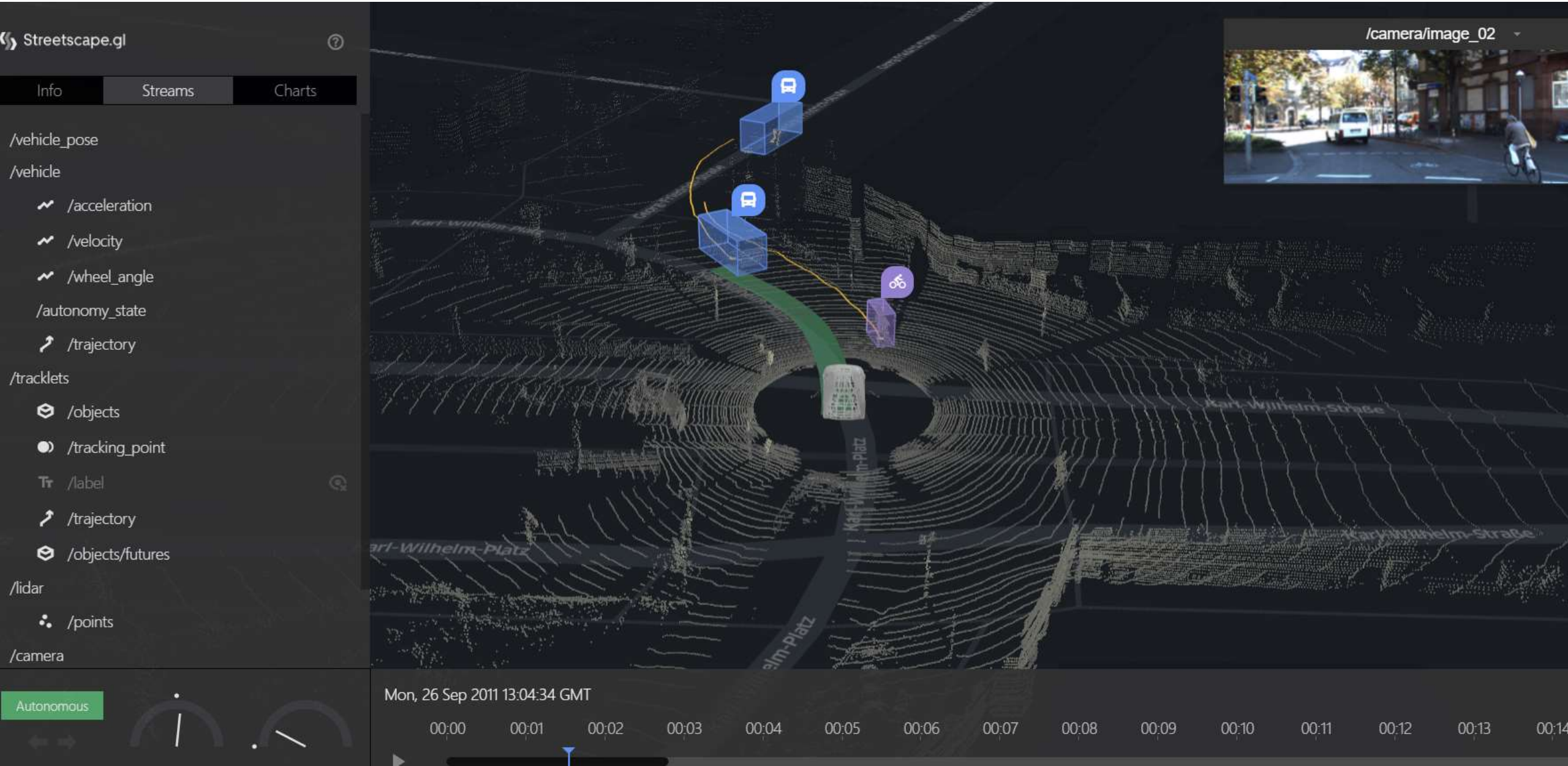
En Machine learning (o aprendizaje de máquina), los computadores aplican técnicas de **aprendizaje** estadístico para identificar patrones en los datos de manera automática. Estas técnicas pueden ser utilizadas para hacer predicciones con una alta precisión.

Continúa desplazándote por el documento.
Utilizaremos un conjunto de datos de viviendas



Isla de visualización de modelos <3

avs.auto


Streetscape.gl
Info
Streams
Charts
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/vehicle
/acceleration
/velocity
/wheel_angle
/autonomy_state
/trajectory
/tracklets
/objects
/tracking_point
/label
/trajectory
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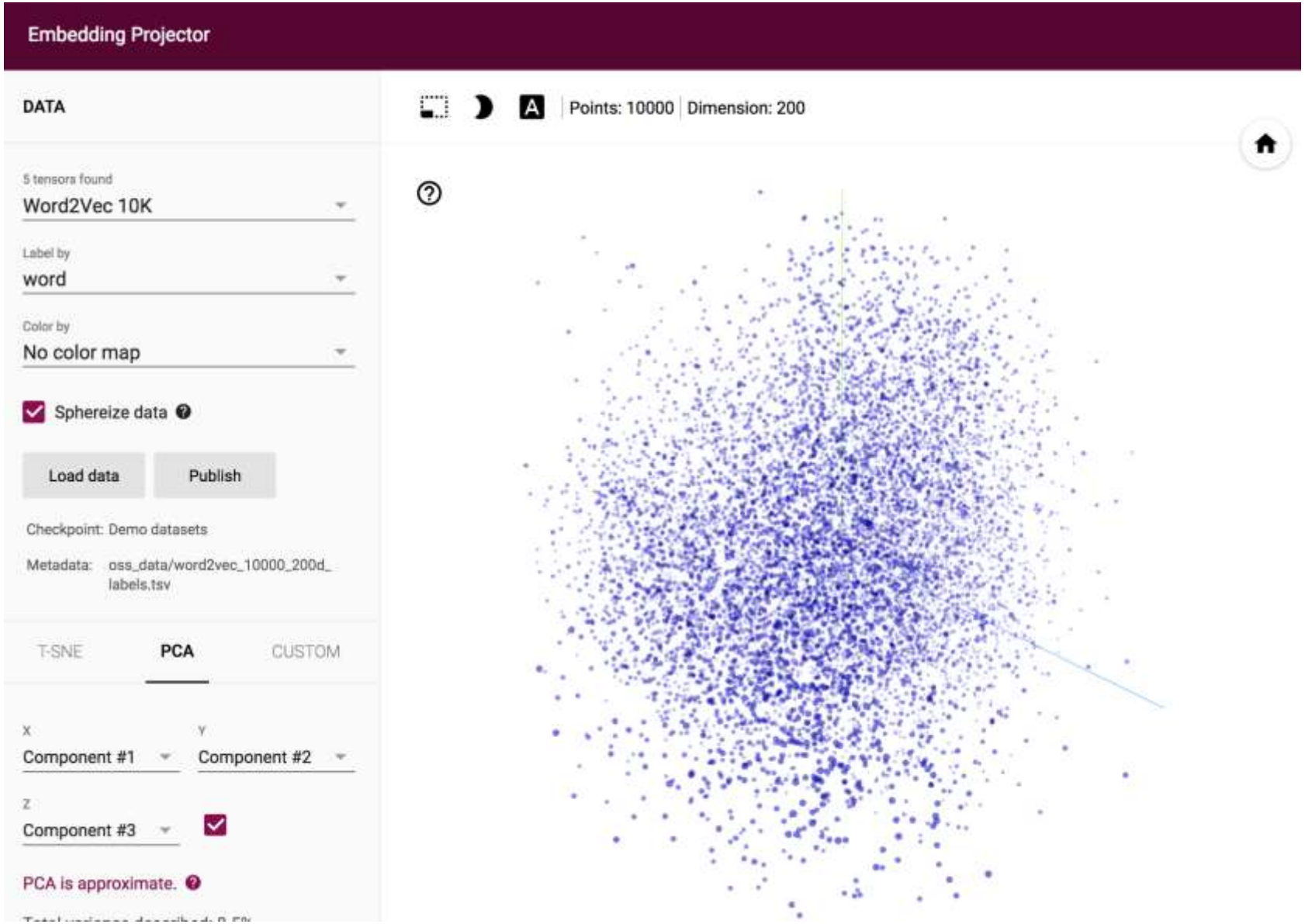
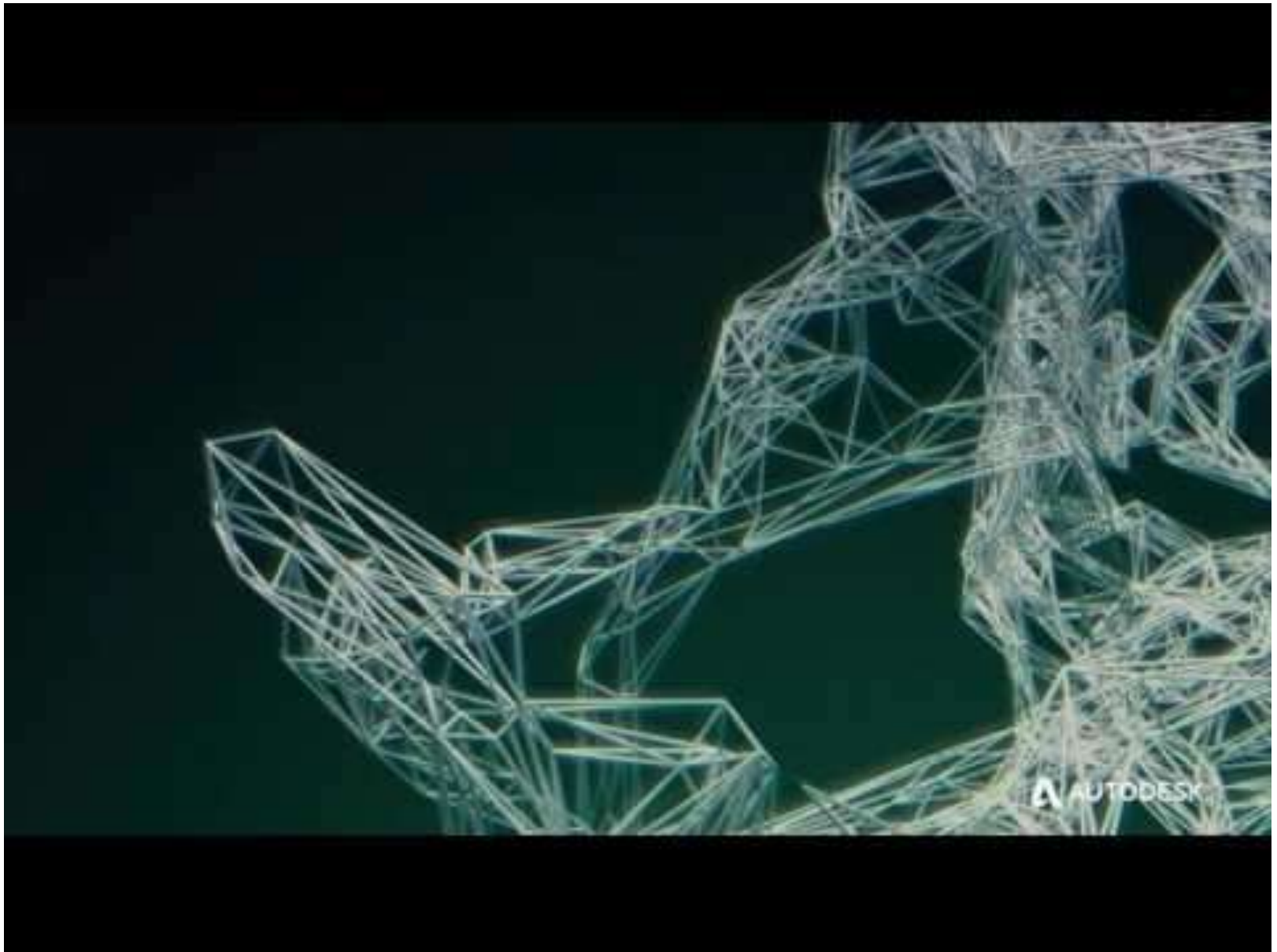
Karl-Wilhelm-Straße

Tensorflow Projector

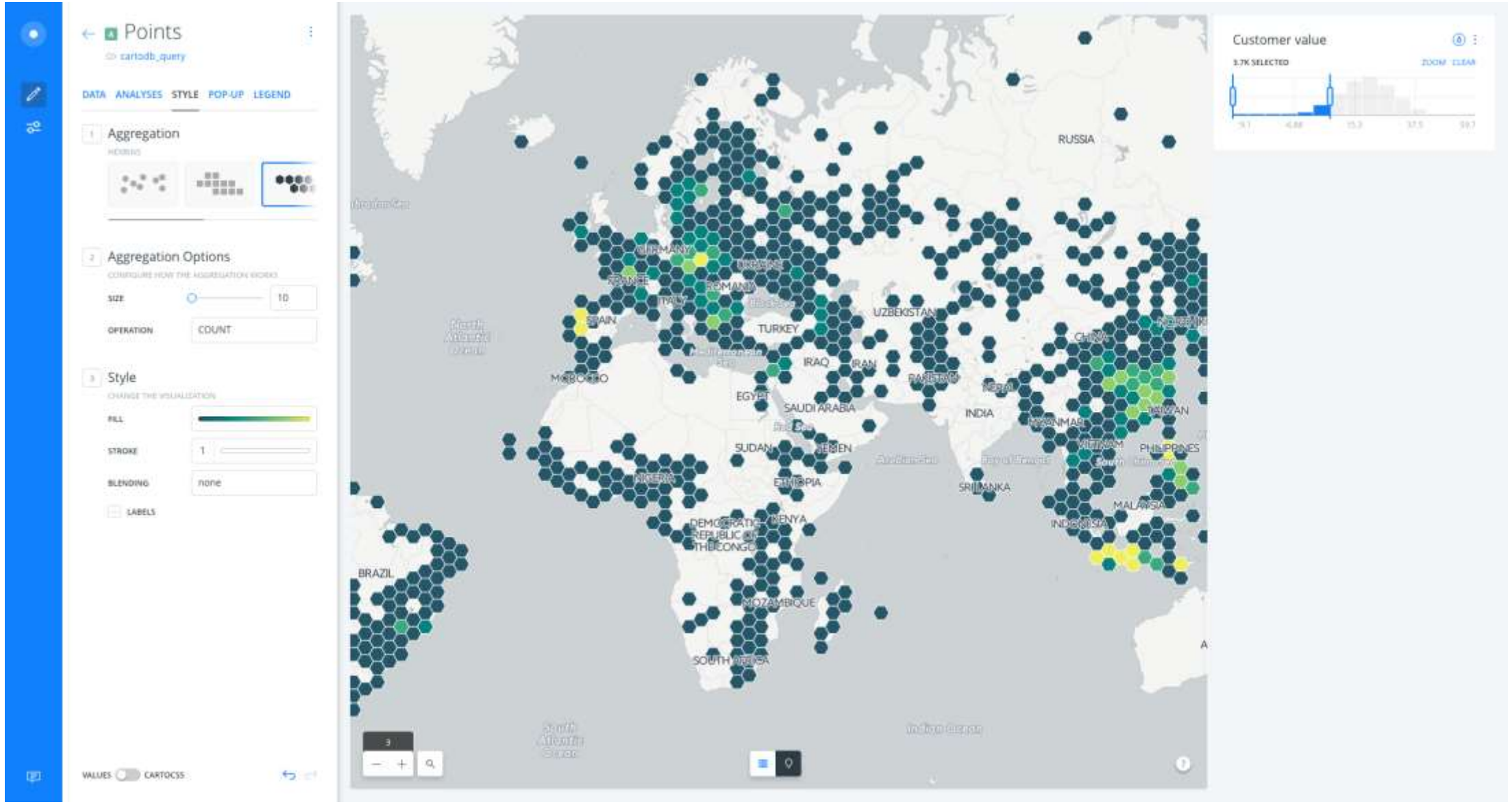


Isla de los productos de datos

Autodesk Dreamcatcher



carto


Points
cartodb_query
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ANALYSES
STYLE
POP-UP
LEGEND
Aggregation
Aggregation Options
SIZE
10
OPERATION
COUNT
Style
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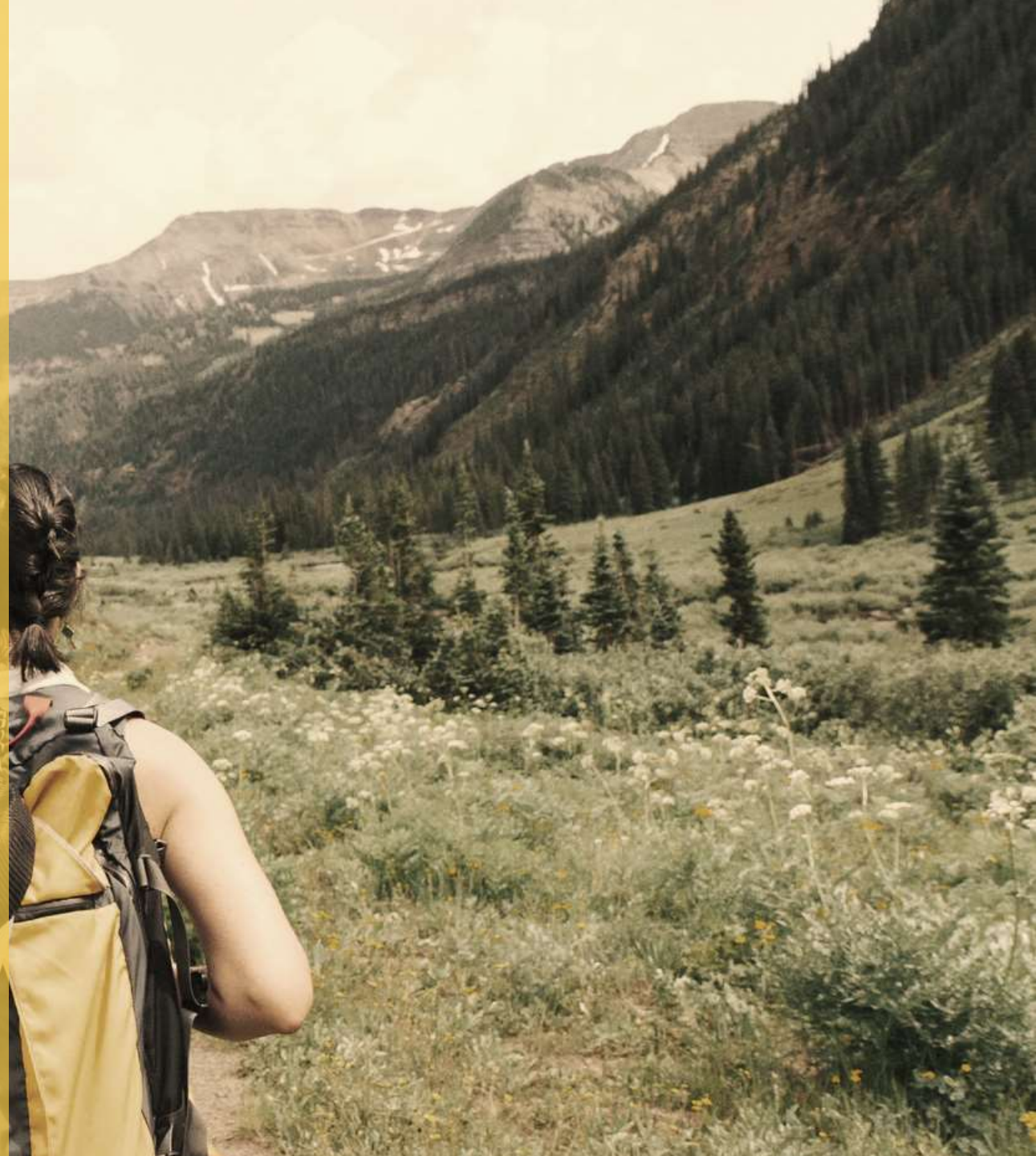
STROKE
1
BLENDING
none
LABELS
VALUES
CARTOCSS
Customer value
3.7K SELECTED
ZOOM
CLEAR
RUSSIA
UZBEKISTAN
TURKEY
IRAQ
IRAN
EGYPT
SAUDI ARABIA
INDIA
SUDAN
YEMEN
ETHIOPIA
KENYA
BRAZIL
MOZAMBIQUE
SRI LANKA
MALAYSIA
INDONESIA
PHILIPPINES
TAIWAN

¡Demo Time!



¡Muchas gracias!

Alejandro Vidal
@doblepensador