

# Análisis de Datos

Population lines, idea de los gradientes de Dani →

<http://spatial.ly/2017/04/population-lines-how-and-why-i-created-it/>

<https://www.r-bloggers.com/joy-division-population-surfaces-and-pioneering-electronic-cartography/>

joyplot with d3 <https://beta.observablehq.com/@mbostock/d3-ridgeline-plot>

horizon chart with d3 <https://beta.observablehq.com/@mbostock/d3-horizon-chart>

When projections showed Hurricane Harvey could bring a record setting amount of rain to Houston, the graphics desk at the New York Times started exploring ways of showing the rainfall. After a **couple of days of scrambling, we managed to make a map showing both the accumulation and rate of rainfall:** → <https://roadtolarissa.com/hurricane/>

Use a data analytics tool to predict where the Pokemon are going to appear →

<https://www.pluralsight.com/guides/big-data/use-a-data-analytics-tool-to-predict-where-the-pokemon-are-going-to-appear>

a visualization of global weather conditions forecast by supercomputers updated every three ours →

<https://earth.nullschool.net/about.html> <https://github.com/cambecc/earth> <http://www.copernicus.eu/>

Using machine learning to identify air pollution exposure profiles associated with early cognitive skills among U.S. children → <http://www.sciencedirect.com/science/article/pii/S0269749117313027>

This playground exists to showcase a type of Swarm Intelligence known as Flocking. →

<https://tech.io/playgrounds/1003/flocking-autonomous-agents/going-further>

JSGeo2017 → <https://www.dropbox.com/s/xak1kodwly80z8z/JSGeo2017.pdf?dl=0>

R package to analyze air quality data →

<https://www.r-bloggers.com/rtimicropem-using-an-r-package-as-platform-for-harmonized-cleaning-of-data-from-rti-micropem-air-quality-sensors/> <https://ropensci.org/blog/blog/2017/02/21/ropenaq>

<https://www.r-bloggers.com/working-with-air-quality-and-meteorological-data-exercises-part-2/>

<https://www.r-bloggers.com/working-with-air-quality-and-meteorological-data-exercises-part-4/>

Grupo en valencia, españa → <http://safe-tools.dsic.upv.es/airvlc/data-analysis.php>

[https://valenciarusers.files.wordpress.com/2016/04/prediccic3b3n\\_contaminac3b3n-lidiacontreras.pdf](https://valenciarusers.files.wordpress.com/2016/04/prediccic3b3n_contaminac3b3n-lidiacontreras.pdf)

f Los datos que tenemos pueden ser muy similares a estos que se obtienen a partir de strava →

<https://github.com/marcusvolz/strava>

Fondo para una serie de tiempo con escala ICA

<https://media.licdn.com/mpr/mpr/jc/AAEAAQAAAAAAAAAX4AAAAJDlxYTFjMzEzLWUzNzEtNDgzOS1iZDVILTY4OTgzZTBmZWQxYw.png>

Mapa 3d para visualizar mediciones

[http://www.seattlebikeblog.com/wp-content/uploads/2014/03/SBB\\_pollution\\_map-575x471.png](http://www.seattlebikeblog.com/wp-content/uploads/2014/03/SBB_pollution_map-575x471.png) origen de este mapa

[https://www.researchgate.net/publication/252731674\\_Exposure\\_of\\_Bicyclists\\_to\\_Air\\_Pollution\\_in\\_Seattle\\_Washington\\_Hybrid\\_Analysis\\_Using\\_Personal\\_Monitoring\\_and\\_Land\\_Use\\_Regression](https://www.researchgate.net/publication/252731674_Exposure_of_Bicyclists_to_Air_Pollution_in_Seattle_Washington_Hybrid_Analysis_Using_Personal_Monitoring_and_Land_Use_Regression) Podría

implementarse con :

<http://rgraphgallery.blogspot.com.co/2013/05/rg107-plot-3d-horizontal-lines-bars.html>

Artículo CSWA: Aggregation-Free Spatial-Temporal Community Sensing → <https://arxiv.org/pdf/1711.05712v1.pdf>

Viento y PM25 → <http://aqicn.org/faq/2015-11-05/a-visual-study-of-wind-impact-on-pm25-concentration/>

Predicción de concentración PM25 usando redes neuronales <https://www.sciencedirect.com/science/article/pii/S1352231015001491>

Anomaly detection with R → <https://www.r-bloggers.com/anomaly-detection-in-r-2/>

Animación de la contaminación en china → [https://old.reddit.com/r/dataisbeautiful/comments/8v0m98/oc\\_3d\\_animation\\_of\\_chinas\\_nitrogen\\_dioxide/](https://old.reddit.com/r/dataisbeautiful/comments/8v0m98/oc_3d_animation_of_chinas_nitrogen_dioxide/)

Predicting Sunspot Frequency with Keras LSTM In R → <https://www.r-bloggers.com/time-series-deep-learning-part-2-predicting-sunspot-frequency-with-keras-lstm-in-r/>

Metaballs → <http://jamie-wong.com/2014/08/19/metaballs-and-marching-squares/>

AgentMaps - Social Simulations on Interactive Maps → <https://noncomputable.github.io/AgentMaps/>

Fans Energy Viz → <https://reimaginegame.economist.com/en/matches/bayern-gladbach/fans>

Privacy mobility → <https://techxplre.com/news/2018-12-privacy-mobility.html>

Proof-of-location → <https://www.theatlantic.com/technology/archive/2018/11/can-blockchain-maps-replace-gps/576985/>

RETIGO Epa → <https://www.epa.gov/hesc/real-time-geospatial-data-viewer-retigo>

## Visualización interactivas

### Query engine

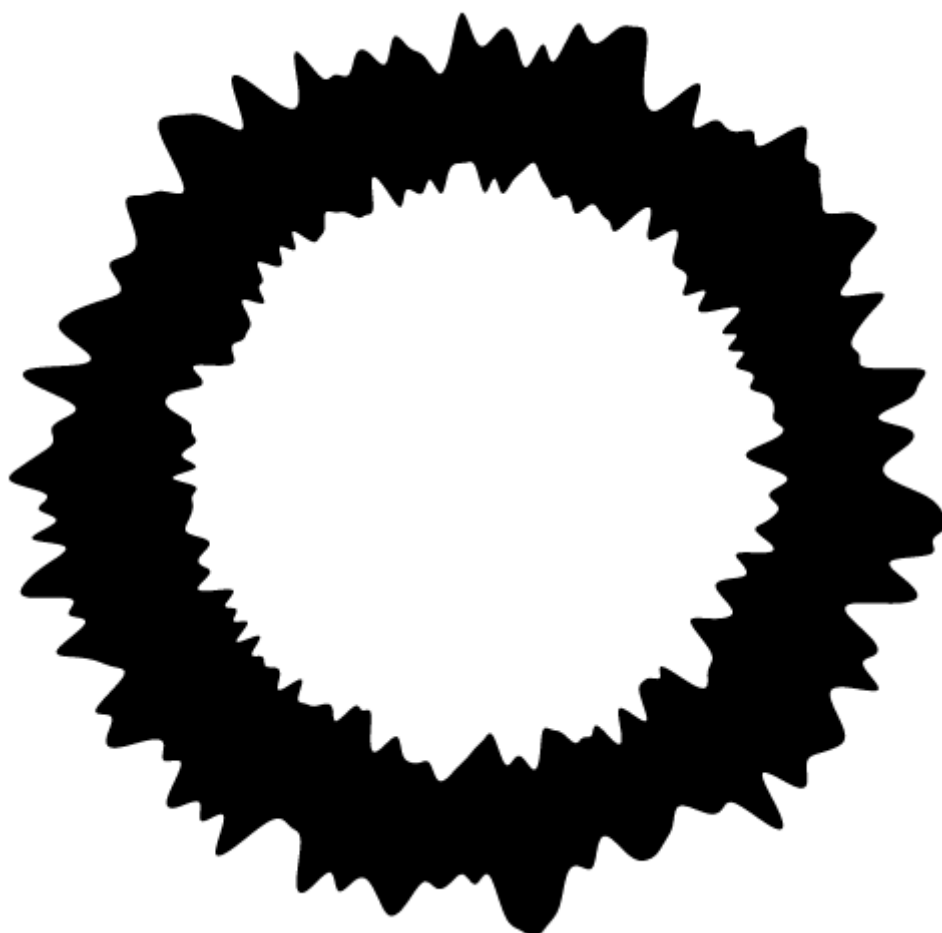
- <https://medium.com/coinograph/storing-and-processing-billions-of-cryptocurrency-market-data-using-influxdb-f9f670b50bbd>
- [https://docs.influxdata.com/influxdb/v1.6/query\\_language/continuous\\_queries/](https://docs.influxdata.com/influxdb/v1.6/query_language/continuous_queries/)
- <https://www.youtube.com/watch?v=0syXa8cBY-Y>

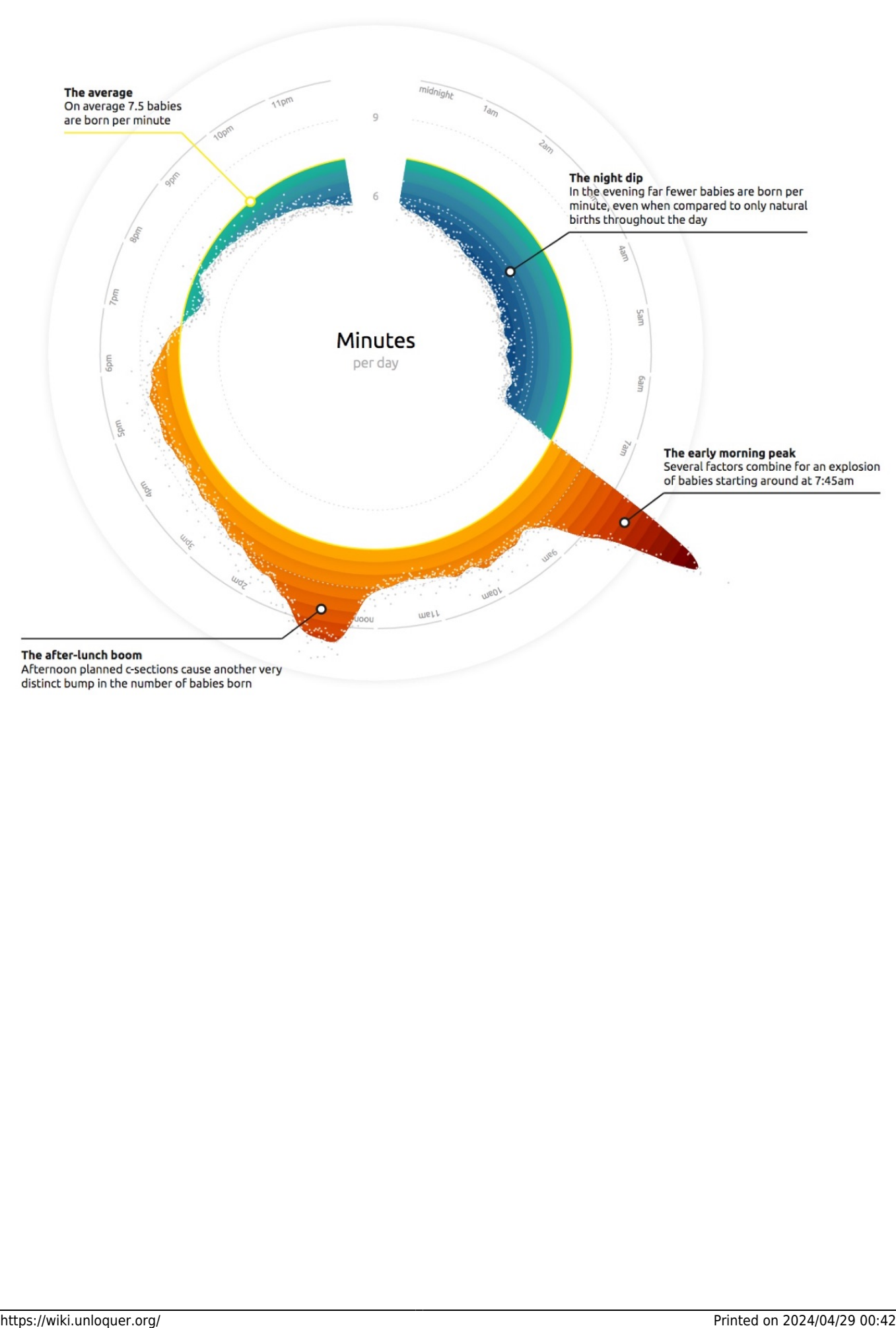
### Eventos externos

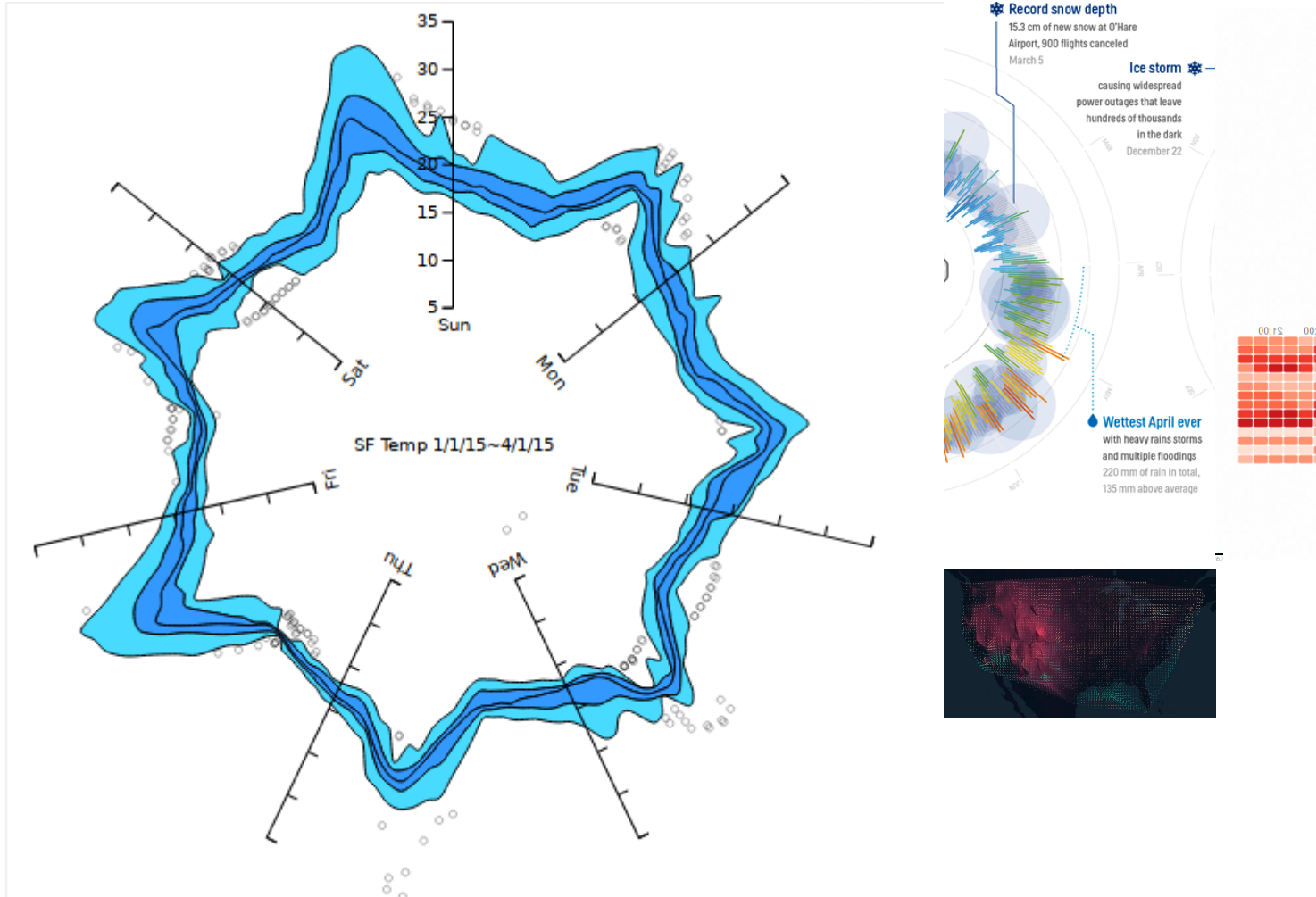
- Eventos externos como la interacción con la visualización llegan por websockets y se convierten en eventos del mouse
- <http://nmajor.com/posts/using-socket-io-with-redux-websocket-redux-middleware>

## Estilo de la visualización

- Se propone un estilo radial para la serie de tiempo
- <https://kmandov.github.io/d3-horizon-chart/>
- <https://beta.observablehq.com/@mbostock/d3-horizon-chart>
- <https://github.com/d3/d3-shape#areaRadial>
- [https://github.com/d3/d3-shape#area\\_curve](https://github.com/d3/d3-shape#area_curve)
- <http://blockbuilder.org/emeeks/b57f4cc89dacd38fcdcd>
- <http://blockbuilder.org/susielu/b6bdb82045c2aa8225f5>
- <https://bl.ocks.org/susielu/4c7a8a89a25bd86a61a8>
- <http://blockbuilder.org/emeeks/e47ced0d0c5516c6745b>
- <http://bl.ocks.org/nbremer/4b81aff1ff5907ac3db1780a1c6a5e01>
- <https://www.visualcinnamon.com/2017/10/creating-baby-births-visual>
- <http://sxywu.com/travel/>
- <https://stackoverflow.com/questions/44814519/d3-colour-gradient-not-forming-mathematical-circle-around-centre-of-area>
- <http://scottcheng.github.io/bj-air-vis/>
- <https://bl.ocks.org/davidwclin/ad5d13db260caeffe9b3>
- <http://datacanvas.org/sense-your-city/#!/data>
- <http://www.maartenlambrechts.com/2014/07/29/introducing-the-weather-browser.html>







Posible superficie de proyección

De no se posible la proyección se puede ubicar un led en el lugar de la estación y que se ilumine según el promedio de la hora



# Privacidad

- <https://edition.cnn.com/2019/07/09/tech/toronto-sidewalk-labs-google-data-trust/index.html>

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