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_contaminacic3b3n-lidiacontreras.pdf 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/AAEAAQAAAAAAAAX4AAAAJDIxYTFjMzEzLWUzNzEtNDgzOS1iZDVlLTY4OTgzZTBmZWQxYw.png

Mapa 3d para visualizar mediciones 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 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/

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://reimaginethegame.economist.com/en/matches/bayern-gladbach/fans

Privacy mobility → https://techxplore.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

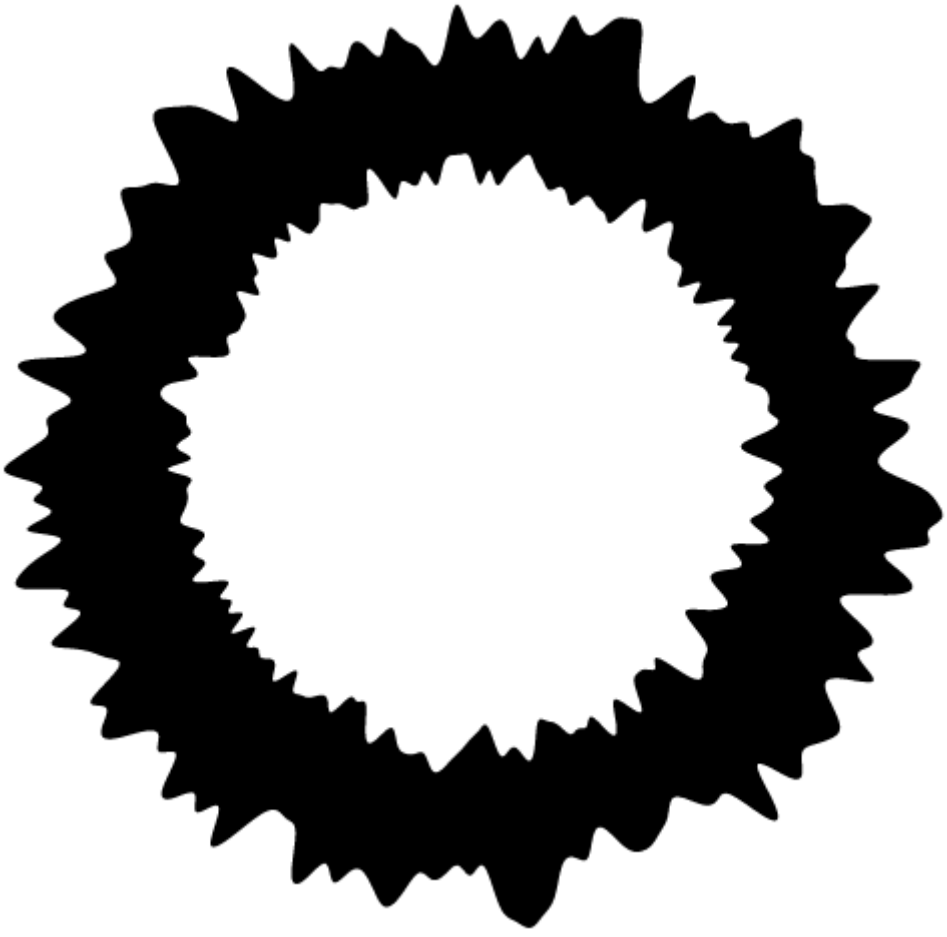
- https://medium.com/coinograph/storing-and-processing-billions-of-cryptocurrency-market-data-using-influxdb-f9f670b50bbd
- https://docs.influxdata.com/influxdb/v1.6/query_language/continuous_queries/
- https://www.youtube.com/watch?v=0syXa8cBY-Y

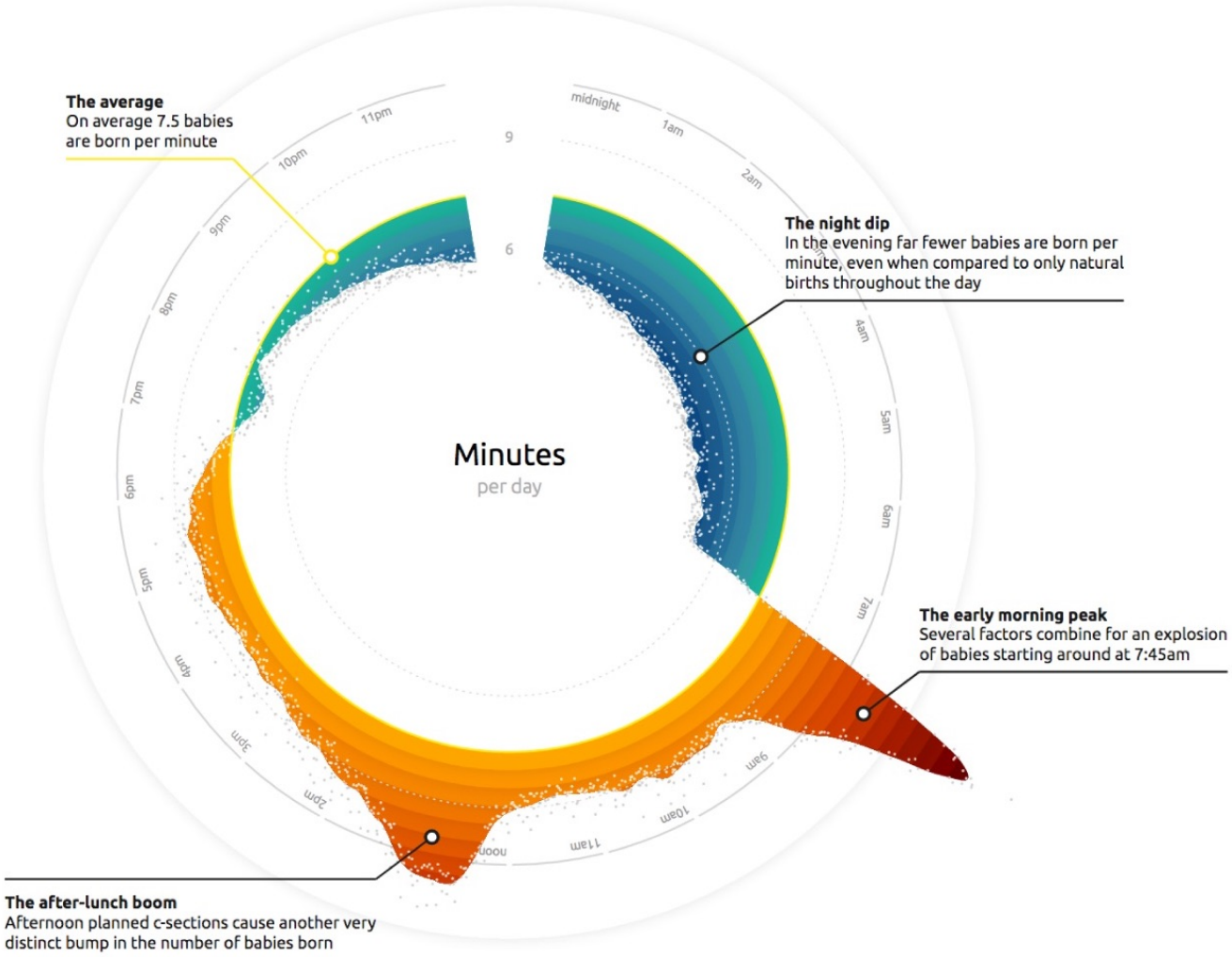
Eventos externos

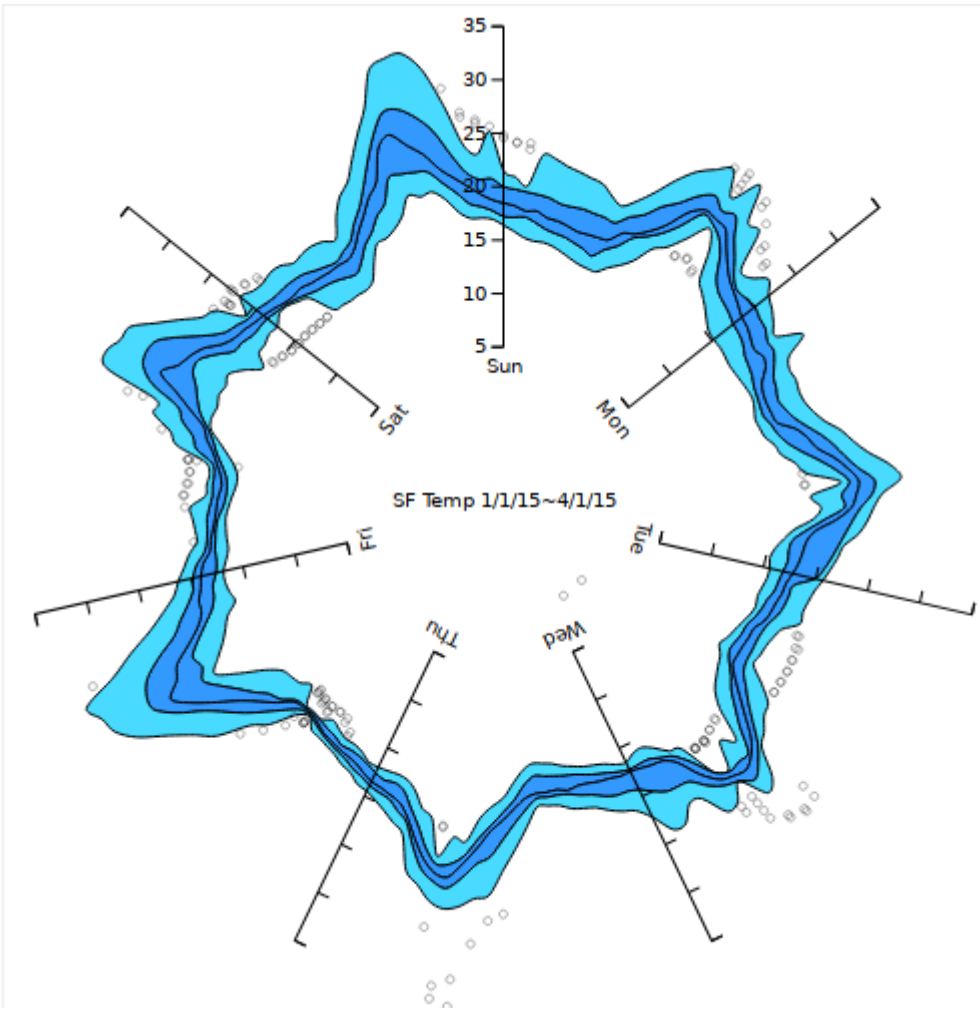
- Eventos externos como la interacción con la visualización llegan por websockets y se convierten en eventos del mouse
- http://nmajor.com/posts/using-socket-io-with-redux-websocket-redux-middleware

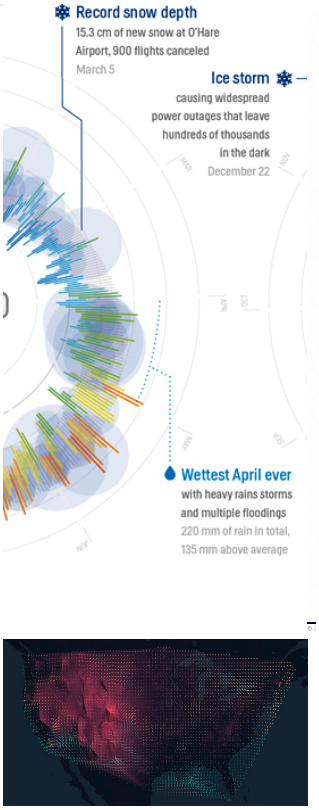
Estilo de la visualización

- 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
- 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
- ¿cómo visualiza ttn mapper? → http://wireless.ictp.it/school_2018/Slides/Luka/TTN%20Mapper-TTC%20presentation.pdf

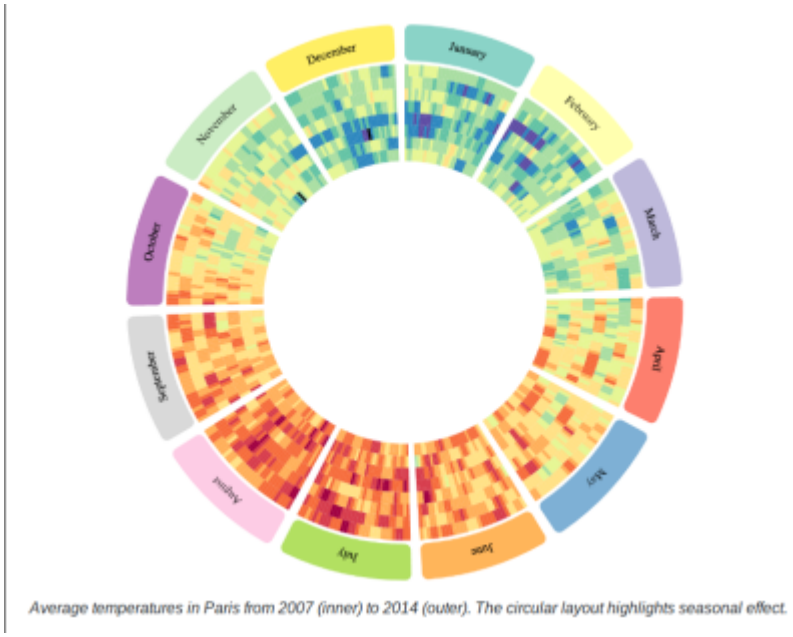



The average
On average 7.5 babies are born per minute
The night dip
In the evening far fewer babies are born per minute, even when compared to only natural births throughout the day
The early morning peak
Several factors combine for an explosion of babies starting around at 7:45am
The after-lunch boom
Afternoon planned c-sections cause another very distinct bump in the number of babies born
Minutes
per day
midnight
1am
2am
4am
5am
6am
7am
9am
10am
11am
noon
2pm
3pm
4pm
5pm
6pm
7pm
8pm
9pm
10pm
11pm
9
6





- Circos is a javascript library to easily build interactive graphs in a circular layout. https://nicgirault.github.io/circosJS/

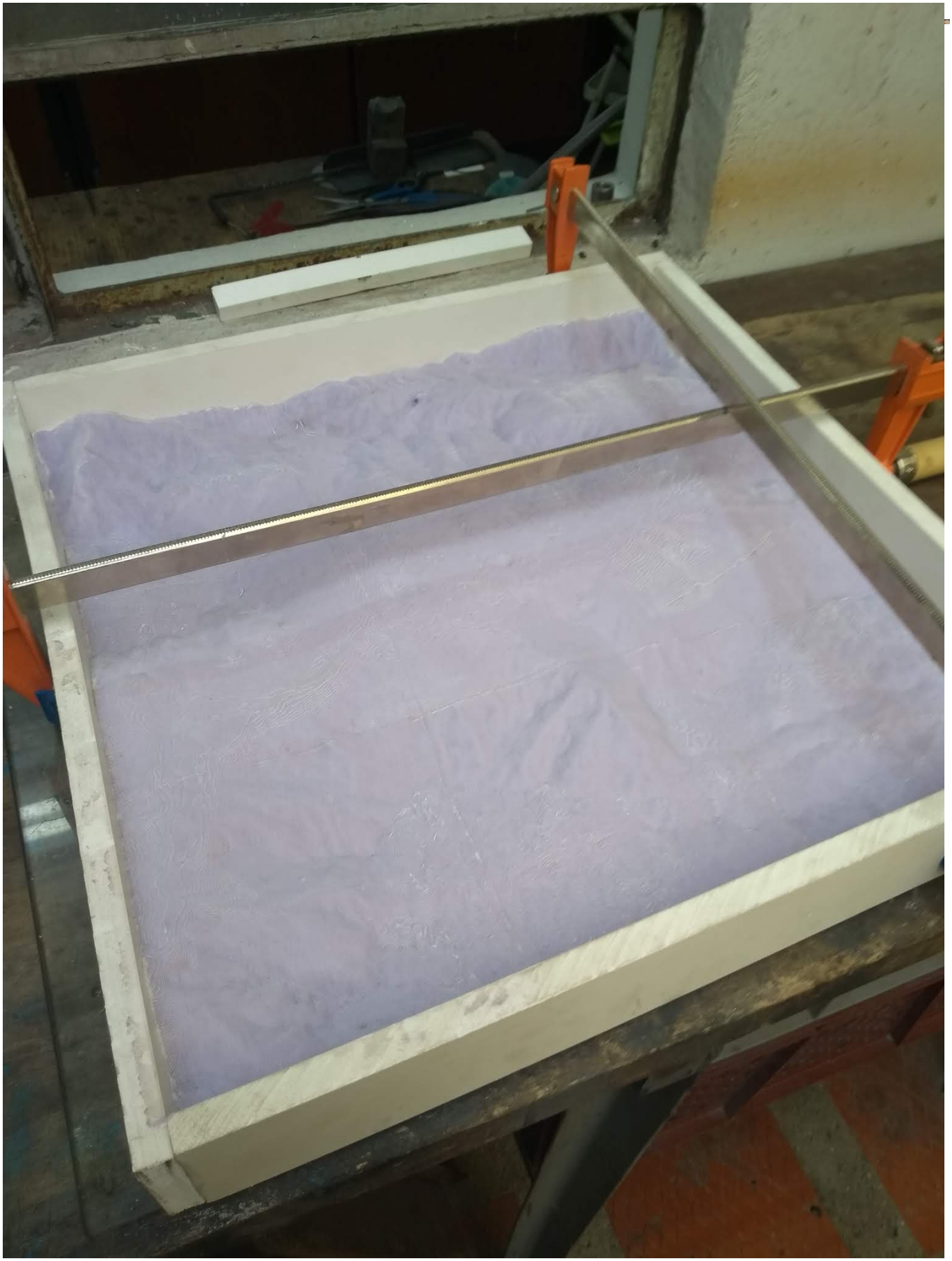


Average temperatures in Paris from 2007 (inner) to 2014 (outer). The circular layout highlights seasonal effect.

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
- Visualización de recorrido en 3D a partir de traza GPX → https://www.r-bloggers.com/3d-gps-data-animation-virtually-climb-the-alps/

Modelado de flujos de polución en ciudad y ontología

tratan de definir como sobreponer modelos 3D del aire con modelos de ciudad, dicen que es pesado computacionalmente, el modelo Street Canyons, que representa el flujo de aire entre los edificios, entonces plantean objetos 3D con riqueza semántica para hacer una ontoligía (relaciones) entre esos objetos .... jaja entiendo muy poco pero dejan ideas para explorar como “we could define the concept of potentially polluted street as streets that belong to a street canyon where air flow simulation produces a flow with one or more vortices (thus keeping pollutants in the canyon)” https://arxiv.org/pdf/1201.6511.pdf como algo así supongo que no solo se podría determinar la calidad del aire de una parte de un barrio, sino también por ejemplo que el segundo piso es más vulnerable a producir vórtices de acumulación que el quinto piso

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