
title: 'Dataviz: A package of domain specific visualizations and languages for the Pharo live coding environment'

tags:

- literate computing
- reproducible research
- data visualization
- agile visualization
- data activism
- pocket infrastructures
- moldable tools
- civil tech
- grafoscopio

authors:

- name: Offray Vladimir Luna Cárdenas

orcid: 0000-0002-4640-6984

affiliation: 1

affiliation: 2

affiliation: 3

affiliations:

- name: HackBo: a hackerspace in Bogotá

index: 1

- name: mutabiT

index: 2

- name: University of Caldas

index: 3

date: 06 April 2017

bibliography: paper.bib

Summary

Dataviz is a companion package for Grafoscopio (Luna Cárdenas 2014) that puts together several examples of Domain Specific Visualizations and Domain Specific Languages (DSV, DSL, respectively) developed with the Roassal agile visualization engine (Bergel 2016) in the fields of data activism (Milan and Gutiérrez 2015), civic hacking (Schrock 2016). Dataviz is the result of a PhD in Design & Creation, which is informed by the technique of observant participation (Moeran 2007) and tries a critical approach to inhabit and foster communities and to provide them with some tools and prototypes for their usual endeavors. Included prototypes approach several themes like: Panama Papers as reproducible Research (Luna Cárdenas 2016b), Twitter data selfies (Luna Cárdenas 2016c) and published medicine access (Luna Cárdenas 2016a) and are presented via blog post and internal interactive documentation via Grafoscopio notebooks. The classes in the package and their documentation show several levels of maturity from pretty mature (Panama Papers) to early coder practices (Infomed) and are offered as examples and excercises to learners in our recurrent Data Week

workshop+hackathon, for code testing and refactoring.

References

Bergel, Alexandre. 2016. *Agile Visualization*. LULU Press. <http://agilevisualization.com/>.

Luna Cárdenas, Offray Vladimir. 2014. “Metáforas Y Artefactos Alternativos de Escritura Para Jalonar La Investigación Abierta Y La Ciencia Ciudadana Y de Garage,” September. <http://mutabit.com/repos.fossil/grafoscopio/doc/tip/Docs/Es/Articulos/Libertadores/bootstrapping-objeto-investigacion.pdf>.

———. 2016a. “Domain Specific Visualizations: A Glimpse of Medicine Public Data Released by Governments.” <http://mutabit.com/offray/blog/en/entry/sdv-infomed>.

———. 2016b. “Panama Papers: A Case for Reproducible Research, Data Activism and Frictionless Data.” <http://mutabit.com/offray/blog/en/entry/panama-papers-1>.

———. 2016c. “Twitter Data Selfies: From Paper Mockup to Digital Prototype.” <http://mutabit.com/offray/blog/en/entry/ds-twitter-mockup>.

Milan, Stefania, and Miren Gutiérrez. 2015. “Medios Ciudadanos Y Big Data: La Emergencia Del Activismo de Datos.” *MEDIACIONES* 11 (14): 10. doi:10.26620/uniminuto.mediaciones.11.14.2015.10-26.

Moeran, Brian. 2007. “From Participant Observation to Observant Participation: Anthropology, Fieldwork and Organizational Ethnography.”

Schrock, Andrew R. 2016. “Civic Hacking as Data Activism and Advocacy: A History from Publicity to Open Government Data.” *New Media & Society* 18 (4): 581–99. doi:10.1177/1461444816629469.