Portfolio

Guillem Segura

About me

I am a Data Visualisation & Software Engineer currently working mainly in Java, JavaScript, React, D3 and Mapbox. Interested in learning new technologies and further improve my skills.
Hard worker, well organised and passionate about pushing the boundaries of new functionality at the highest standard, improving the development process and sharing knowledge, along with exceptional design and problem-solving skills.
From time to time I enjoy working on side projects and going to conferences.

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CRYPTO INFLUENCERS

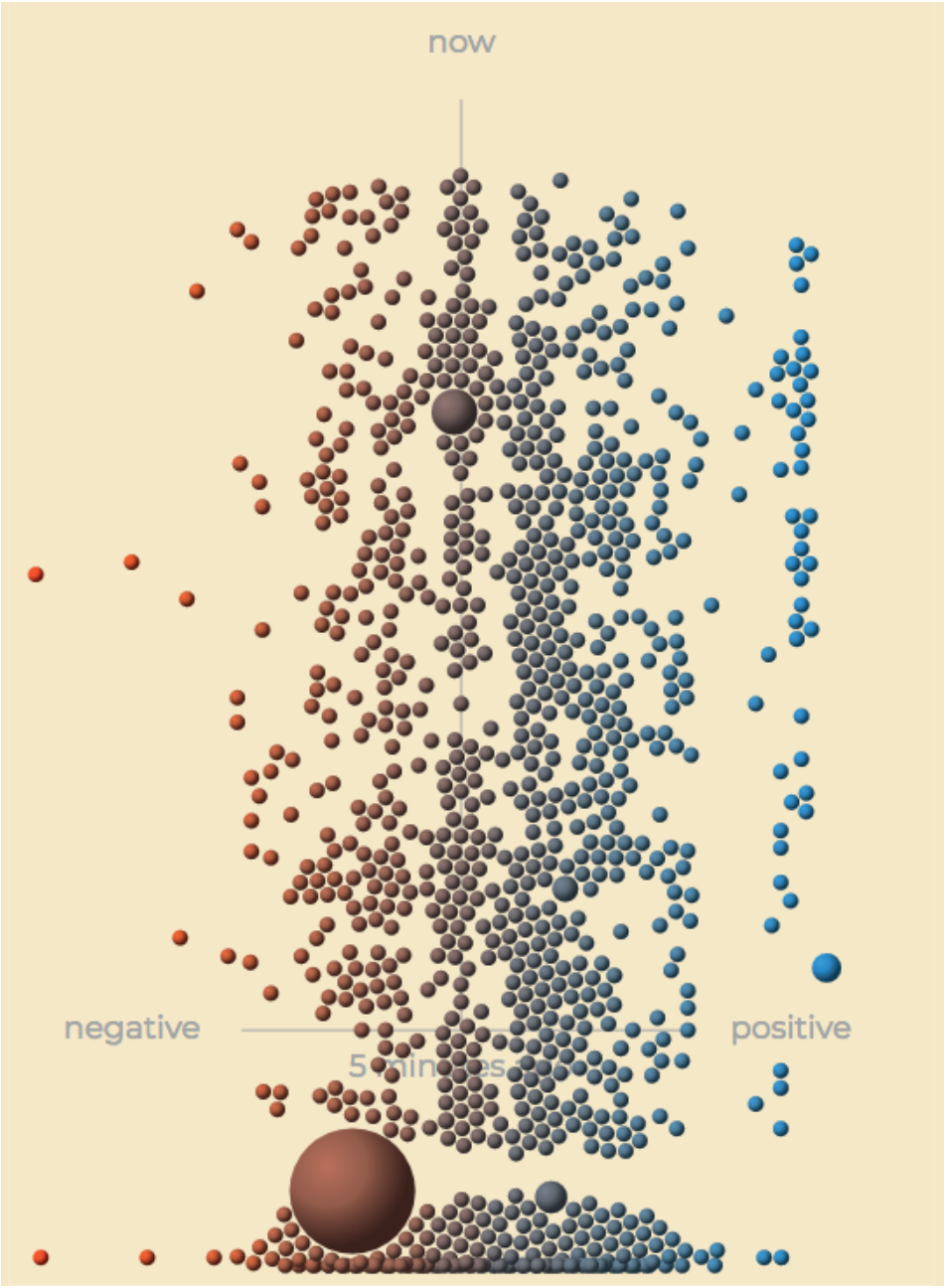
This visualisation forms part of a research article (not yet published) for the analysis of the network of Twitter accounts related to crypto-currencies. It intends to represent the space of accounts involved in discussions about crypto-currencies and identify the accounts with more influence.

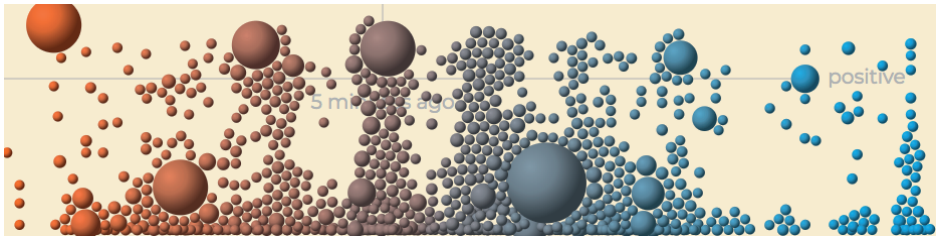
Every Twitter account is represented with a circle sized by how important it is in the network and positioned based on pre-calculated clusters. The connections represent comments or mentions to other accounts. Colouring the circles and links by the cluster makes it easier to see the different groups.

Tweets are extracted and processed using Omniscope from a Twitter Firehose.

Technologies: Twitter Firehose API, D3.js, SVG, Java and Omniscope.

Visokio Ltd. (2019/02) - Data Visualisation & Software Engineer
Project done in conjunction with a Data Scientist.





PILING PEBBLES

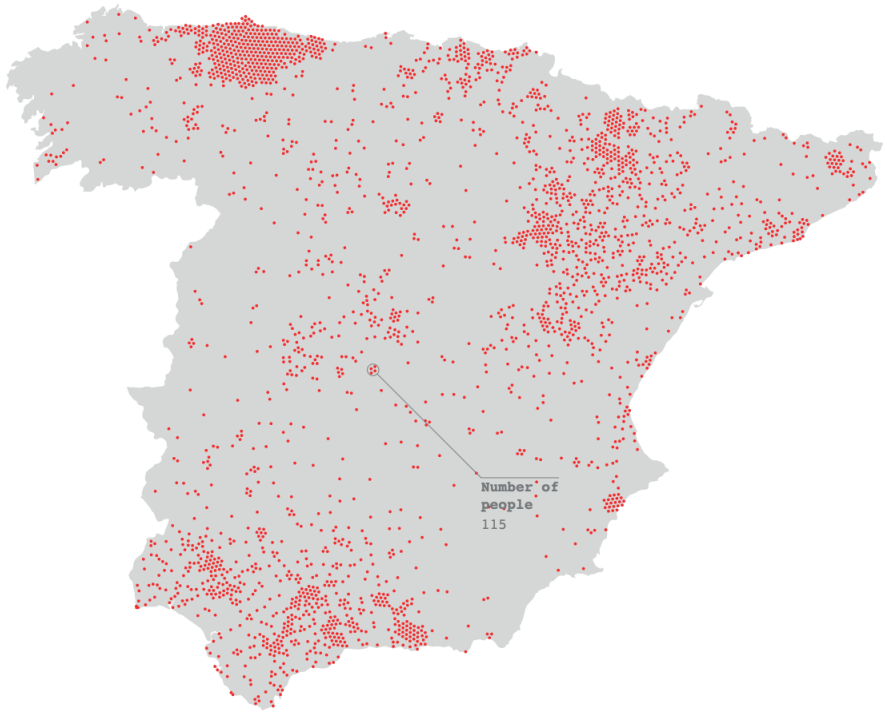
This was a one-day project for the Big Data London exhibition. The visualisation shows recent tweets about Brexit from the last 5 minutes automatically updated falling in real time based on a vertical time axis and horizontal sentiment axis. The overall distribution is then accumulated at the bottom of the chart.

Every tweet is represented as a ball sized by the number followers of the account, coloured and positioned from left to right based on the sentiment.

Tweets are extracted and processed using Omniscope from a Twitter Firehose and the topic and sentiment score analysed from the text.

Technologies: Twitter Firehose API, D3.js, SVG, Java and Omniscope.

Visokio Ltd. (2018/11) - Data Visualisation & Software Engineer



MASS GRAVES IN SPAIN

This visualisation attempts to show the accumulation of mass graves in the Spanish peninsula.

The interactive map doesn't show the accurate position of the graves as some have the same location parameters and would be overlapping. Instead, it tries to show the accumulation by positioning the groups as close to the original location as possible. It also makes use of tooltips to show the number of people buried in each group of mass graves.

Technologies: D3.js, SVG, d3-annotation, Mapbox and Omniscope.

(2019/01) - Side project

V&A VISUALISATION TOOL

This project was part of my dissertation at the University of Southampton that I undertook at IT Innovation Centre and was exposed as part of a meeting held by System Simulation at the British Museum.

The visualisation interface allows the exploration of a database of similar art and design items from Victoria and Albert Museum through a graph and multiple mechanisms to dynamically update the search preferences.

The user can find items of the museum by clicking on one or multiple ones and the graph would show similar ones closer together. Additionaly, the user can use dynamic filters to narrow down the selection by time and materials in general or based on the items already shown.

Technologies: ArborJS, JQuery, JavaScript, SQL and Java.

IT Innovation Centre (2012/09) - MSc Software Engineering