



STORKS

Presented by Jimmy Cassarino



Presented by Jimmy Cassarino



THE CONTEXT

CORRELATIONS AND HOSPITAL MANAGEMENT

You may have noticed hospital management is a HOT topic nowadays.

To handle more efficiently their material needs and their human resources, a large association of hospitals aims at predicting maternity occupation rates and put in place an alerting system to help decision-making.

Many factors could influence pregnancy and natality, from weather conditions to football results, through travel agencies activity. There are so many variables that could be taken into consideration, that the association decided to limit them to twitter hashtags at first.

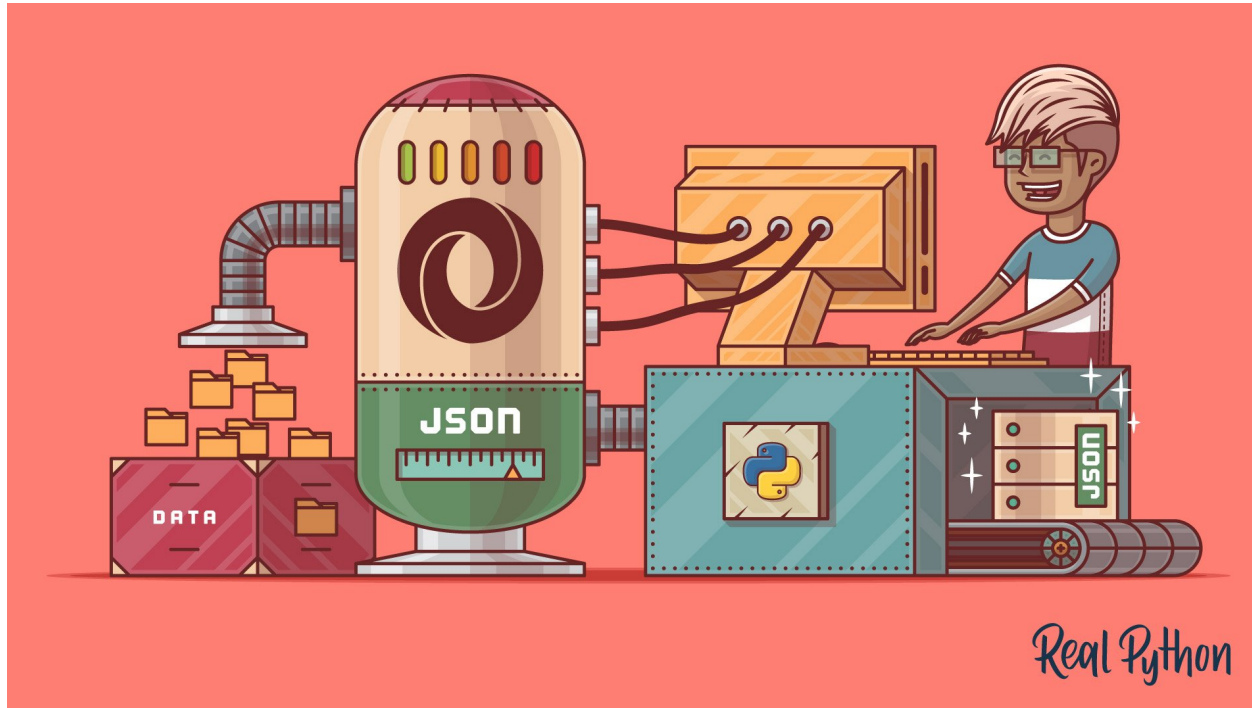


DATASET

A data set (or dataset) is a collection of data. In the case of tabular data, a data set corresponds to one or more database tables, where every column of a table represents a particular variable, and each row corresponds to a given record of the data set in question.



To make my datasets from the Twitter feed I had to use a scraper.
But what is a scraper?

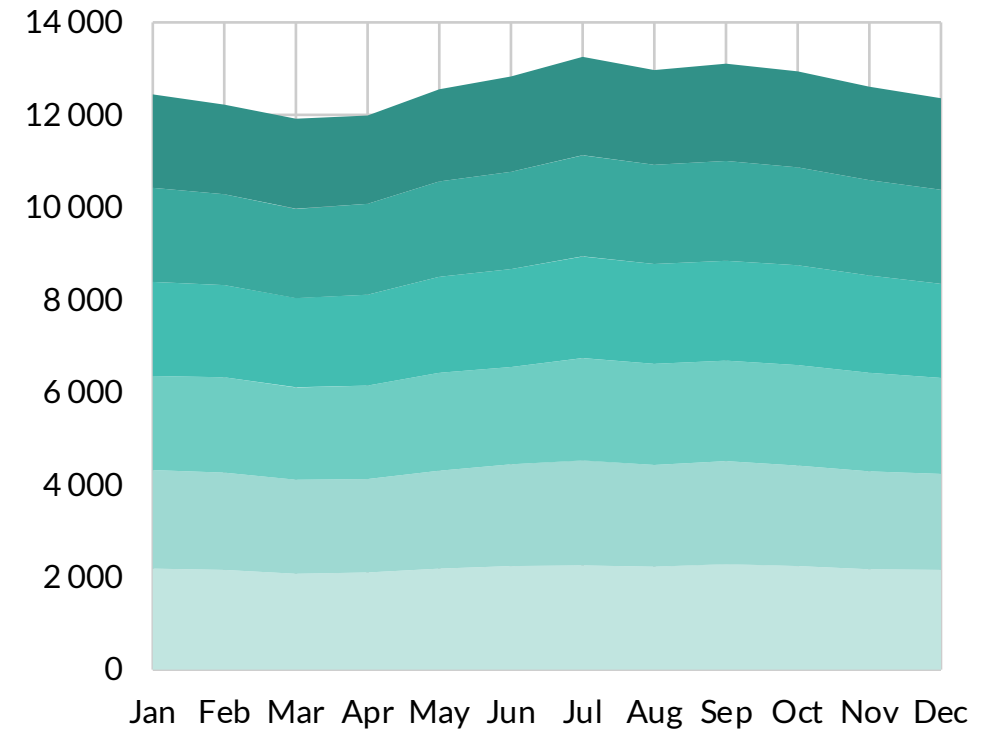


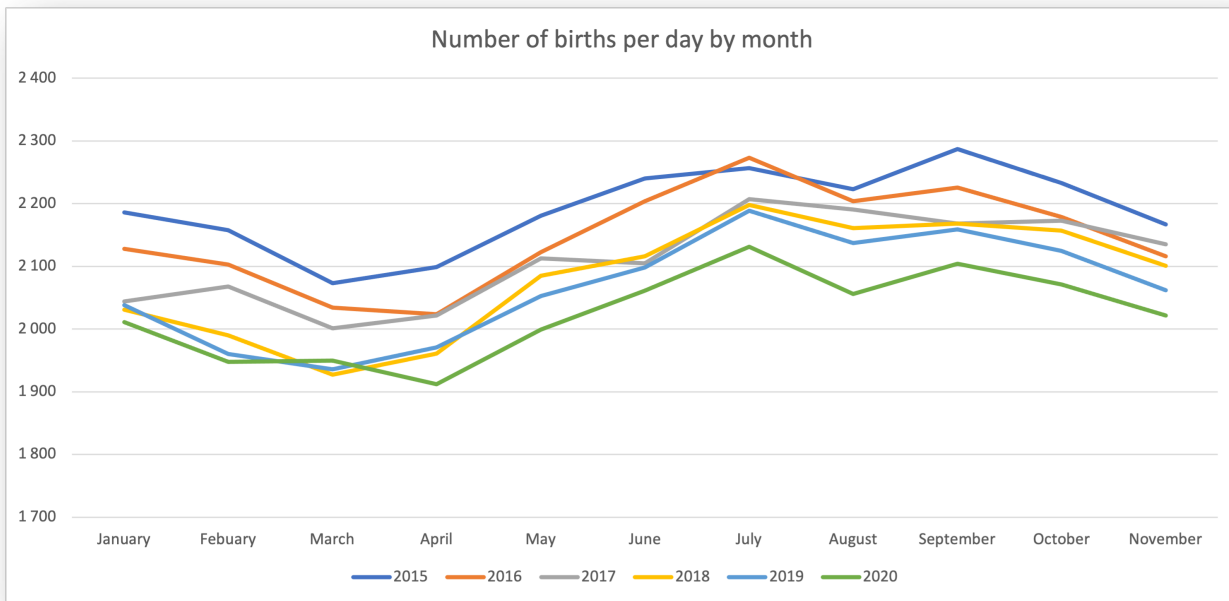
SCRAPER

Web scraping, web harvesting, or web data extraction is data scraping used for extracting data from websites. The web scraping software may directly access the World Wide Web using the Hypertext Transfer Protocol or a web browser.

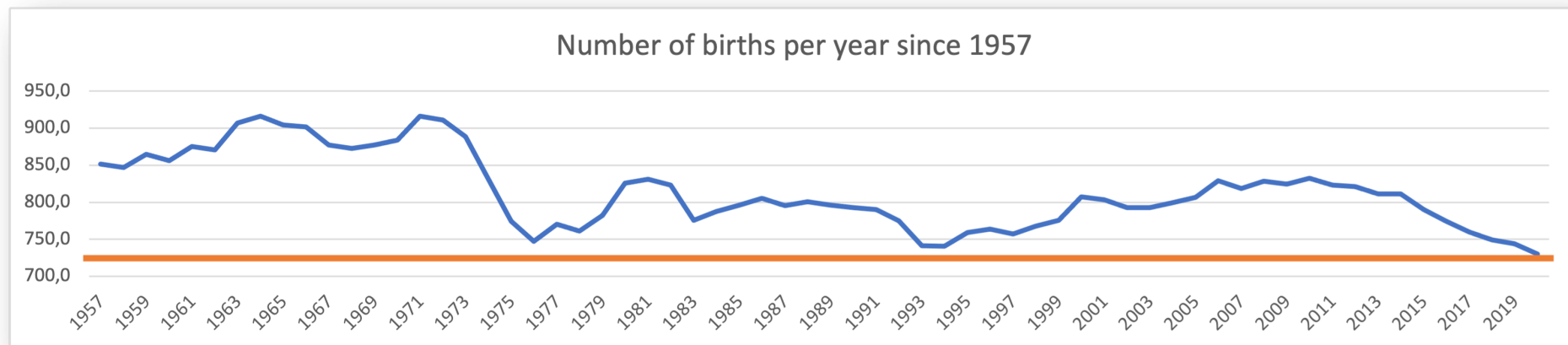
DATA VISUALIZATION

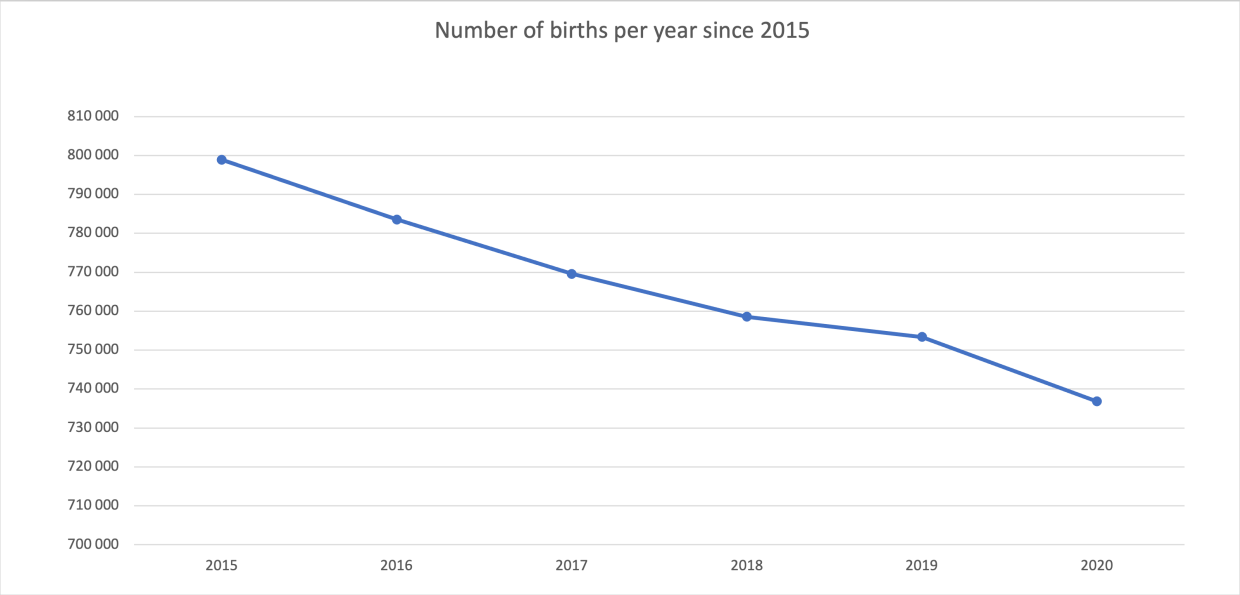
Data visualization is the graphical representation of information and data. By using visual elements like charts, graphs, and maps, data visualization tools provide an accessible way to see and understand trends, outliers, and patterns in data.





EVOLUTION OF NUMBER OF BIRTHS

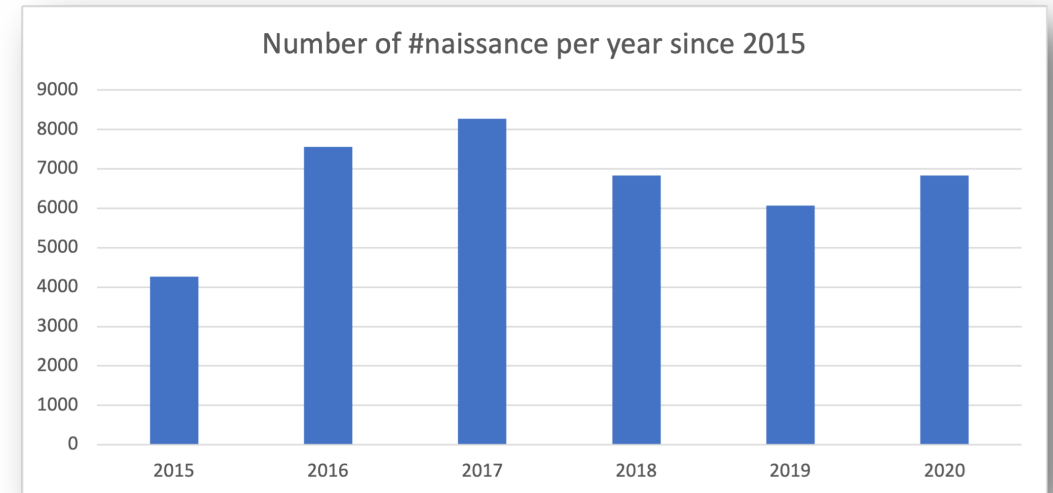
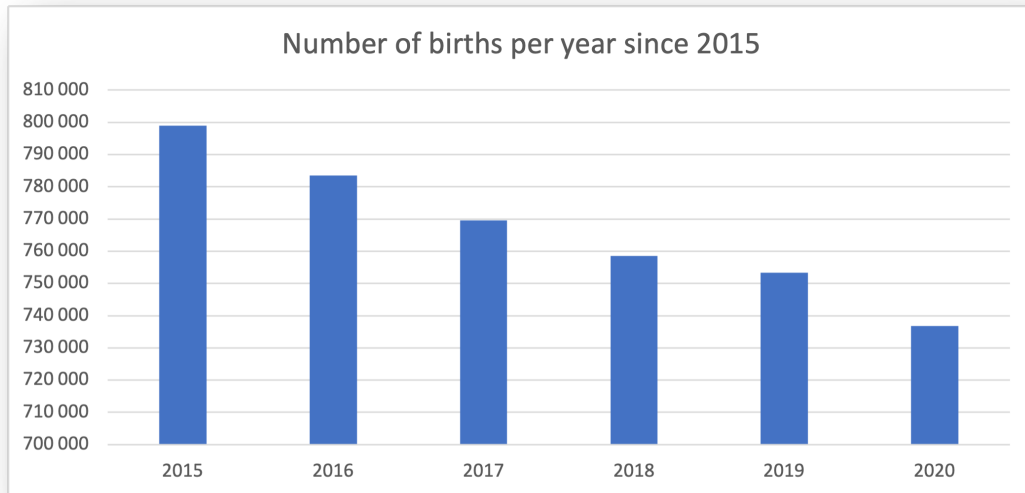




EVOLUTION OF NUMBER OF BIRTHS

	Since 1957	Since 2015	From 2014 to 2015	From 2015 to 2016	From 2016 to 2017	From 2017 to 2018	From 2018 to 2019	From 2019 to 2020
Taux de Diminution des naissances	-14%	-8%	-2%	-1%	-1%	-2%	-2%	-3%

REALITY VS. TWITTER



KPI DASHBOARD

Average births per year
since 2015

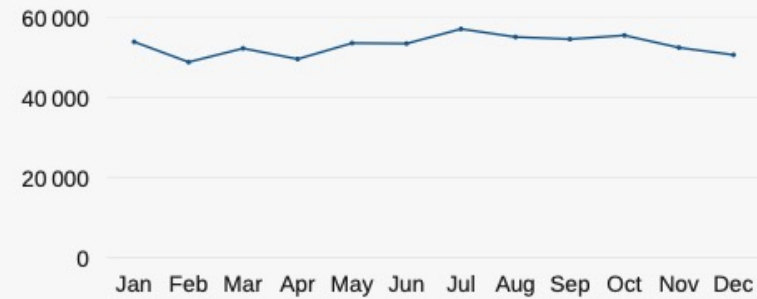
766 802

Births in 2020

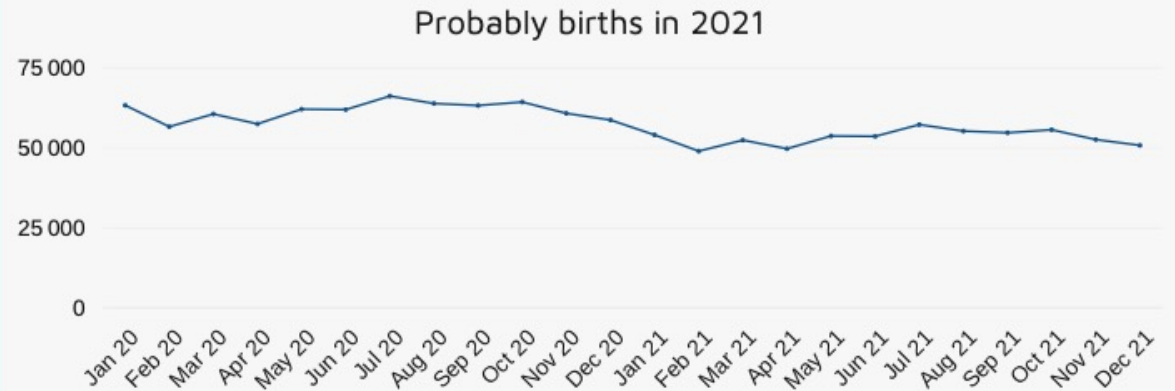
736 803

Probably births in 2021

637 335



Births in
2020



SOURCES

Here are all the sources that helped me in my research to establish my case study

Bilan démographique 2020

https://www.insee.fr/fr/statistiques/5012724#figure2_radio2

Naissances et taux de natalité

<https://www.insee.fr/fr/statistiques/2381380#tableau-figure1>

Décalage du pic de naissance

<https://www.insee.fr/fr/statistiques/4655279#graphique-figure1>

Infos juillet 2019

<https://www.lefigaro.fr/actualite-france/les-infos-qu-il-faut-retenir-du-mois-de-juillet-20190802>

Bilan démographique 2016

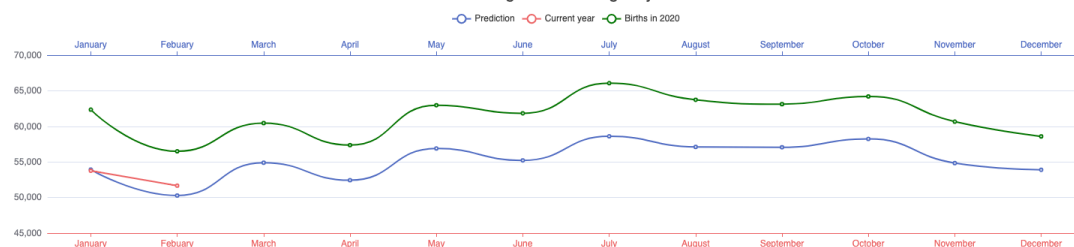
<https://www.insee.fr/fr/statistiques/2554860>



STORKS
LIFE HAS NO LIMIT



Tracking of births during the year



28 March

Prediction of the day

1576

Birth of the day

1666

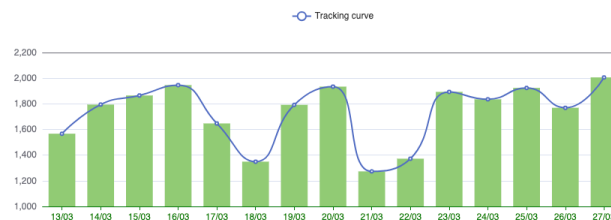
Number of births in 2020

2073

Birth rate compared to last month



Number of births in the last 15 days



DASH-BOARD

Here is the dashboard imagined to help maternity services during the waves of deliveries

DASHBOARD DEVELOPEMENT





**THANKS FOR
YOUR ATTENTION**