

# SOCIO-GEOGRAPHIC MAP OF DOHA

Using Twitter to study the spatial distribution of the population in Qatar

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## PROJECT OVERVIEW

The objective of this project was to create an interactive map that shows the language distribution and provides spatio-temporal information about the population of Qatar by mapping geolocated tweets that have been collected around Qatar. The idea was to visualize the data available from Twitter and to bring out interesting trends that exist in the diverse population demographics of Qatar, while providing filters to categorize the tweets in various ways.

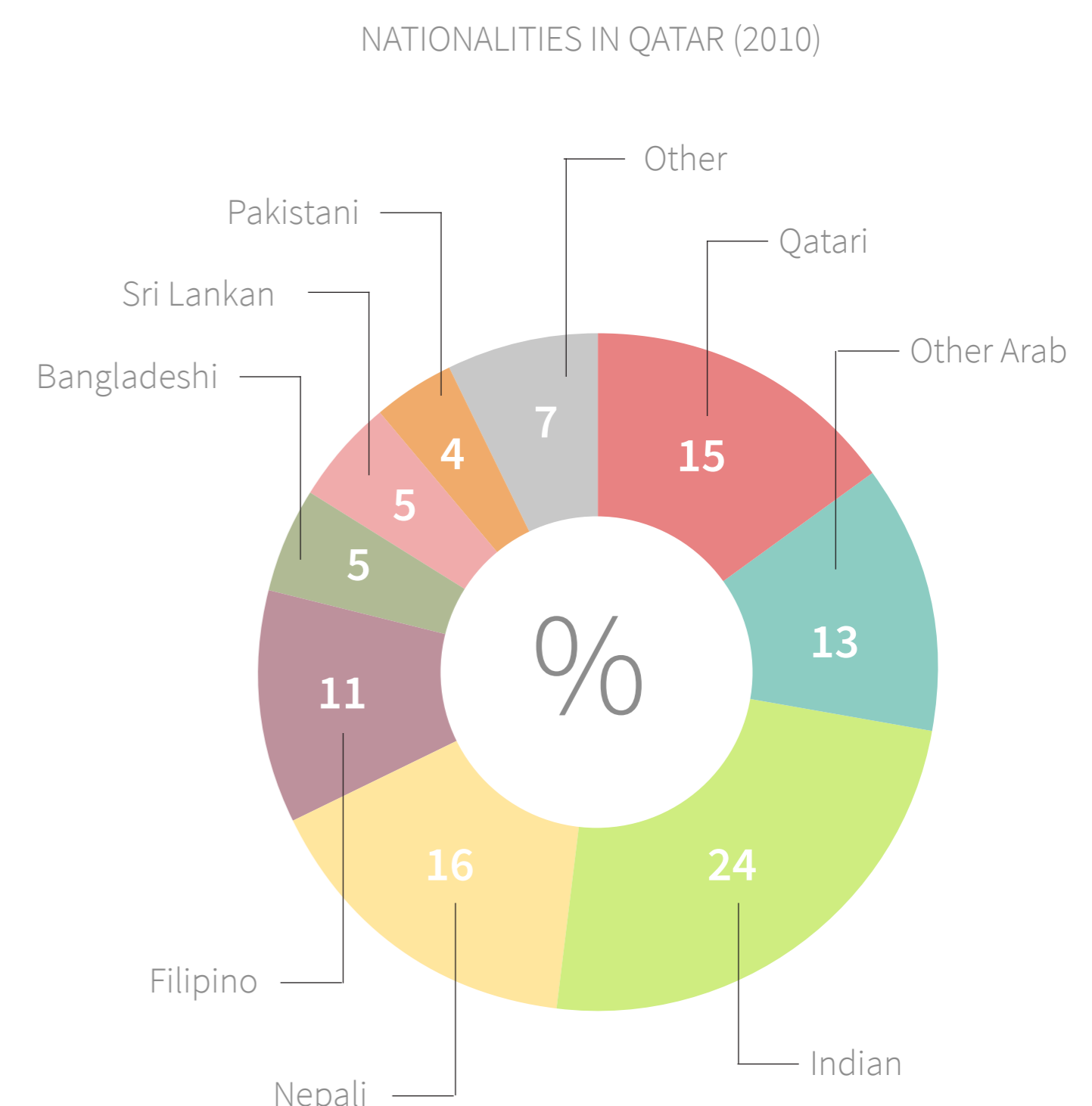
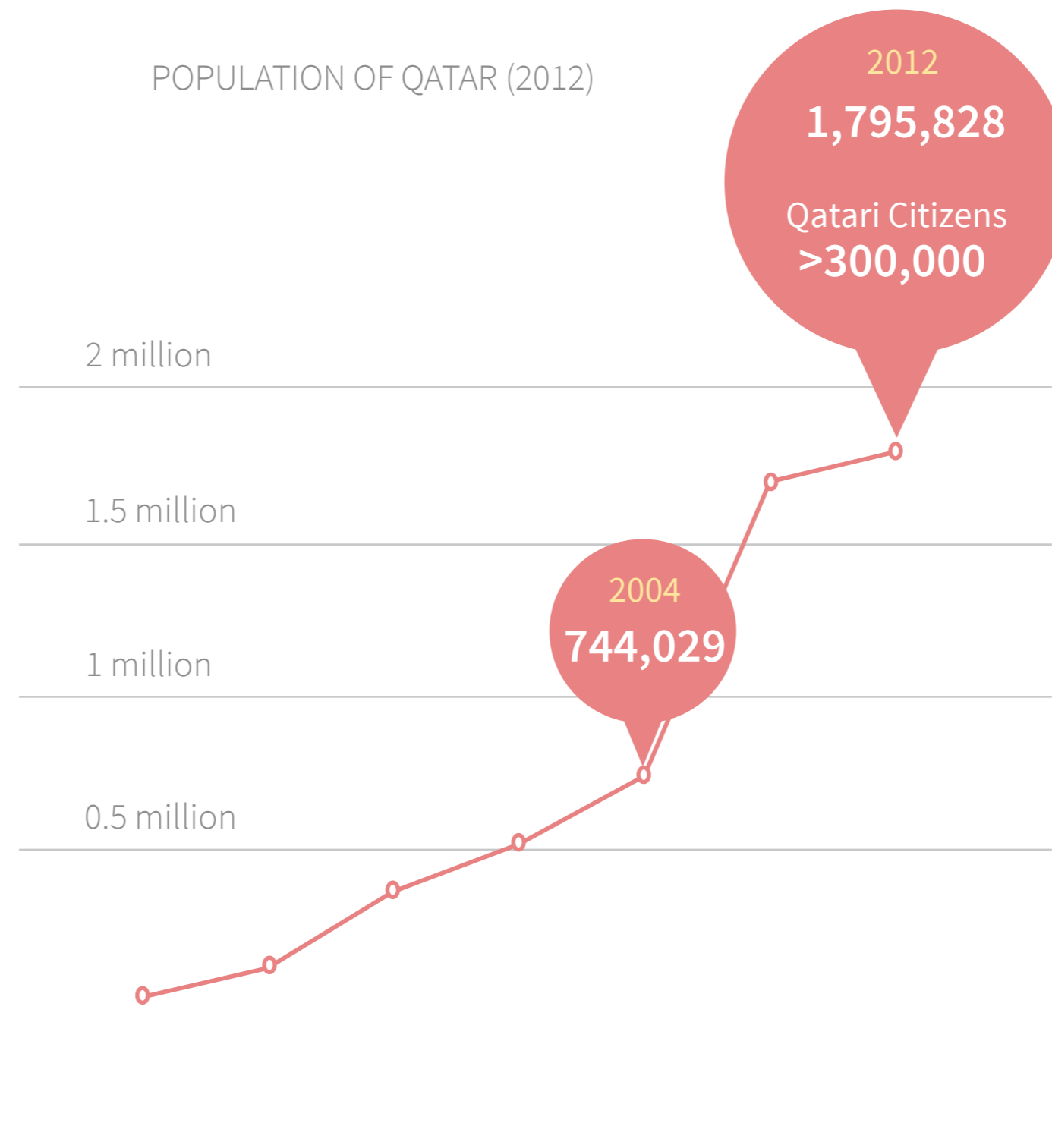
## DEMOS

[http://sc1.qcri.org/twitter/tweets\\_lang\\_qatar/](http://sc1.qcri.org/twitter/tweets_lang_qatar/)  
[http://sc1.qcri.org/twitter/twitter\\_activity\\_qatar/rel\\_activity/](http://sc1.qcri.org/twitter/twitter_activity_qatar/rel_activity/)

## SOCIETY IN QATAR

From 2005 to 2009, Qatar experienced a significant rise in population. The plans for construction and infrastructure development led to an extensive demand for foreign workers, and hence the expatriate population increased from 706,033 to 1,409,313, while the overall population of Qatar reached nearly 1.8 million in 2012 – of which less than 300,000 were Qataris.

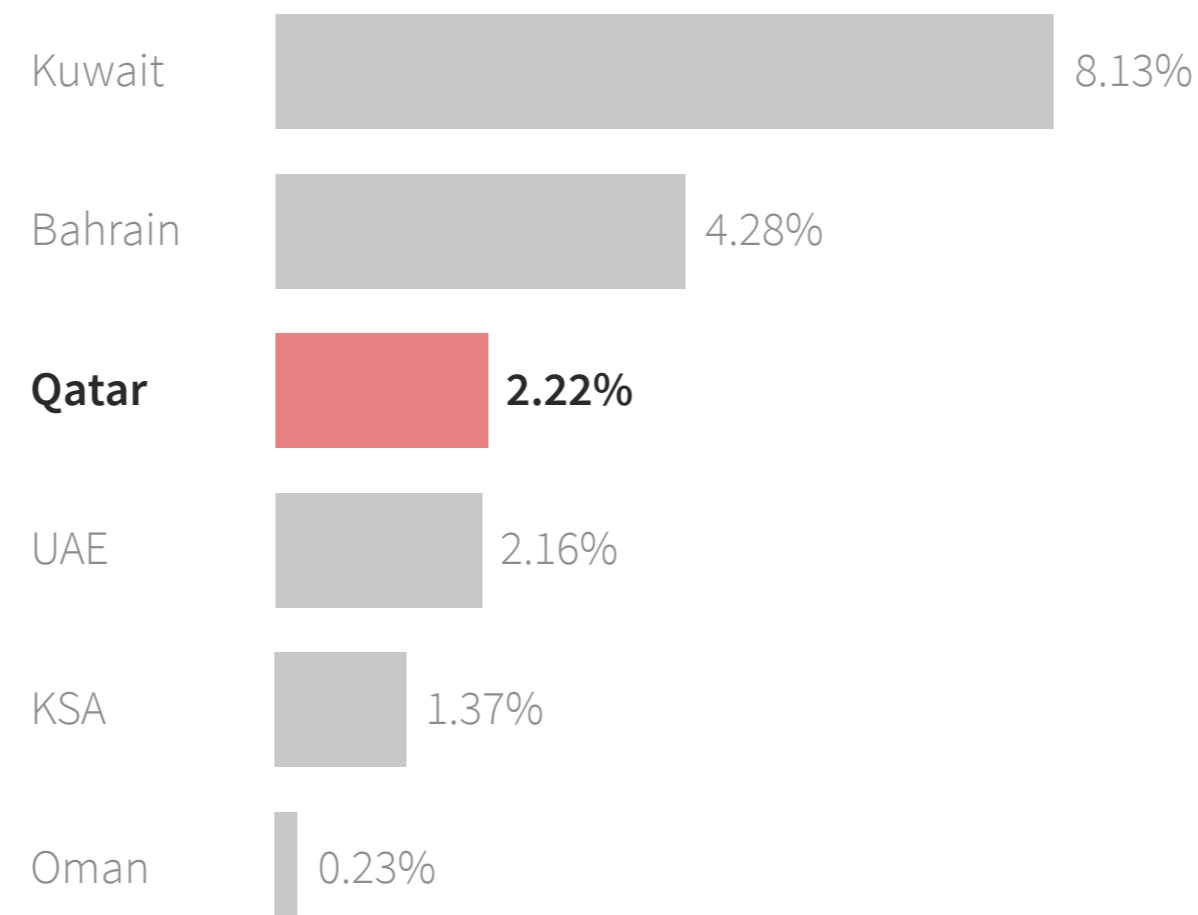
The expatriate population comprises mostly of people from the Indian subcontinent and the Philippines. Due to this, a wide variety of languages are spoken and practiced in Qatar, namely, Tagalog, Spanish, French, Hindi etc.



## TWEETS FROM QATAR



## TWITTER POPULATION PENETRATION (MARCH 2012)



## TWITTER USAGE IN QATAR

Qatar is classified as an emerging country as far as Twitter usage is concerned with about 2.2% of the population actively using Twitter, recorded in early 2012. In terms of penetration, Qatar is at the third highest in the Arab world. In the month of March 2012 alone, Qatar generated roughly 6 million tweets.

Tweets are mainly in English and Arabic, with the Arabic language enjoying the majority of the tweets. The users typically tweet in their respective languages and the provision of mobile data has helped people tweet on the go.

## PROJECT METHODOLOGY

The aim of this project was to create a visualization that shows the language distribution of tweets in Qatar. The visualization comprises of a cluster of pie charts arranged in a grid, on the map of Qatar. These pie-charts show the distribution of Arabic, English, Tagalog, and other language tweets in their respective grid. Once the pie chart is clicked on, it shows an enlarged version of the pie chart along with tweet counts of all the other languages in that particular grid.

The website fetches data from a Google Fusion table and displays the pie charts on the map. Fusion tables is an experimental data visualization web application from Google used to gather, visualize, and share large data tables.

Sources:  
Qatar Statistics Authority  
Arab Social Media Report