

Methodology:

We will be using the data provided by the Foursquare API along with the population density and IDH data that was extracted from Wikipedia Page, whose source of this data is the Rio de Janeiro city hall website.

Neighborhoods analyzed:

The Neighborhoods of this study model will be those of the South Zone of the city of Rio de Janeiro. Neighborhoods included:



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|----------|-----------------|
| Gávea | Laranjeiras |
| Leblon | Jardim Botânico |
| Ipanema | Copacabana |
| Lagoa | Leme |
| Flamengo | Botafogo |
| Catete | Urca |
| Humaitá | |

Data Source and Analysis:

- Foursquare Data:

We used the API provided by the Foursquare to get information about the bakeries spread across the zone of interest. At this API, we have two option of queries: by searching using a word and exploring, by looking everything within the radius.

Thus, to improve the amount of data acquired, I used two words in the query: “Padaria” and “Panificação”, along with the exploration of data, by limiting the radius to 6000m.

Them, we put everything together into a dataframe and started to work on this data.

- Wikipedia Data:

By using web scraping, we were able to get the data of the population density (calculated through the population info and the area of the region) and the HDI information. These data have as source the Rio de Janeiro's city hall.