

Team 1: Project Deliverable 1

Project: **BPDA | Brazilian Community Census Analysis**

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Extended Due Date: **11/12**

Sufficient data should have been collected to perform a preliminary analysis of the data and attempt to answer one question relevant to your project proposal which you will submit as a pull request. If data has already been collected for your project you must answer two questions.

1. Collect and pre-process a preliminary batch of data
 - Client recently provided the necessary data for the years 2005-2011
 - Finished pre-processing data for population, gender, and age for Massachusetts
 - Will continue pre-processing data for the rest of the features
2. Perform a preliminary analysis of the data
 - Created visuals for preprocessed population, gender, and age data
 - i. Population graph displaying Massachusetts Brazilian Population over time (2005 - 2011)
 - ii. Age range graphs displaying the distribution of Massachusetts Brazilians for different age ranges of a particular year (2005 - 2011)
 - iii. Gender distribution graphs displaying the distribution of male/female Brazilians in Massachusetts for a given year (2005 - 2011) and a singular graph displaying male/female distribution in Massachusetts over time
3. Answer one key question
 - Analysis of the Population, Gender, Age
 - i. From 2005 - 2011, the Brazilian population in Massachusetts decreased
 - ii. From 2005 -2011, the gender distribution of Brazilians became much more even (54% Male/46% Female in 2005 to 50% Male/ 50% Female in 2011)
4. Refine project scope and list of limitations with data and potential risks of achieving project goal
 - Recent Project Revisions:
 - i. Project will no longer be for the years 1970 - 2020. The original data given (<https://www.census.gov/prod/www/decennial.html>) was found to not have the necessary data. The project will now be for the years 2005 - 2011, with data given from the client.
 - ii. The project will no longer be focused on Boston. The new scope will be all of Massachusetts. If time allows, analysis will be done on additional states.
5. Submit a PR with the above report and modifications to original proposal