

Group Members:

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Healthy Neighborhoods

Project Goal

The goal of our project is to gather, describe, and visualize data on public health in Chicago neighborhoods. We plan to focus on the relationship between health status and behavioral capabilities, including food and healthcare accessibility, as well as socioeconomic and demographic indicators. As a final deliverable, we will consolidate our data into an easy-to-use, searchable web map.

Data Sets

We will primarily draw from the City of Chicago Open Data Portal for our neighborhood-level health statistics. Additionally, we will supplement the Chicago data with federal public health indicators from the CDC.

Brief survey of background material:

- **Supporting Information**

http://articles.chicagotribune.com/2008-09-29/news/0809290162_1_air-pollution-federal-data-factories
http://www.cityofchicago.org/content/dam/city/depts/cdph/CDPH/CDPH_HealthyChicagoSurveyReport.pdf

- **Project Inspiration**

<https://github.com/smartchicago/chicago-atlas/>
http://derekeeder.com/searchable_map_template/

Potential data sources:

- **Chicago Data Portal**

<https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Selected-public-health-in/iqnk-2tcu>
<https://data.cityofchicago.org/Community-Economic-Development/Map-of-Grocery-Stores-2013/ce29-twzt>

- **CDC Data Portal**

<http://www.cdc.gov/obesity/data/prevalence-maps.html>

Novel Elements

We plan to incorporate three “new technologies” into our project. Our final product will involve an element of data visualization, accomplished through D3 or Tableau. Additionally, we will work to develop an easy-to-navigate webpage on which we can display our visualizations. Finally, we will attempt a machine learning analysis of our data, correlating health outcomes and demographic indicators.

Completion Timeline

February 5: By 2/5, we plan to have all of our project data gathered and uploaded to our repository in cleaned, standardized CSVs.

February 18: We will plan to have completed the majority of our data visualization work by 2/18, and to have made substantial progress in the analysis component of our project.

March 8: By 3/8, we will have the basic framework of the website completed, allowing a week of troubleshooting before the project completion date.

March 15: The software is due, and will be completed, clean, and documented, by 3/15.