**Team Pizza Rat**

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Our team will investigate the relationship between New York City Rat sightings and New York City Department of Health and Mental Hygiene (DOHMH) restaurant inspections. We will use two datasets available on Kaggle.

New York City Rat Sightings: <https://www.kaggle.com/datasets/new-york-city/nyc-rat-sightings>

New York City Restaurant Inspections: <https://www.kaggle.com/datasets/shivanielakurthy/dohmh-new-york-city-restaurant-inspection-results>

Both datasets are administered by DOHMH. The Rat Sighting dataset is limited to September 2010-September 2017. We will, therefore, also limit the Restaurant Inspection rating results to this same period.

Our preliminary analytic questions are,

1. How many restaurants did DOHMH designate as A, B, or C from September 2010 to September 2017?
2. How many restaurants were closed because of the DOHMH inspection September 2010 to September 2017?
3. How many rat sightings were there from September 2010 to September 2017?
4. Do certain boroughs have higher restaurant ratings?
5. Do certain boroughs have more rat sightings?
6. Is there a relationship between rats and restaurant ratings?
   1. Is there a correlation between rat sighting and restaurant rating?
   2. Is there an association between restaurant type and rating?
   3. Do places with more rats have fewer restaurants?
   4. Do restaurants closed by DOHMH tend to be in "high rat areas"?