

# Proposal 1 - City inner portrait

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## Data

### SOURCE:

[https://www.craigslist.org/about/bulk\\_posting\\_interface](https://www.craigslist.org/about/bulk_posting_interface)

### DETAILS:

Use XML posts data provided by Craigslist. The project will mainly use the pictures embedded in the rental listing posts.

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## Idea

For each neighborhood/city, the interior design of apartments can be varied and might have some interesting patterns. For example, interior designs in blocks of post-war buildings versus modern constructions in the financial district. Usually when people think of what a city looks like, it would be its integrated appearance of all the outside constructions and landscapes and so forth. Under no circumstance will anyone be able to depict the interior of a city. It would be really interesting to explore the appearance of a city from a really unconventionally perspective, which also connect the residences of the city tighter to the portrait of it, since the interior photos can present more living traces.

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## Sketch



# Proposal 2 - Where are New Yorkers rushing to

## Data

### SOURCE:

[http://www.nyc.gov/html/tlc/html/about/trip\\_record\\_data.shtml](http://www.nyc.gov/html/tlc/html/about/trip_record_data.shtml)

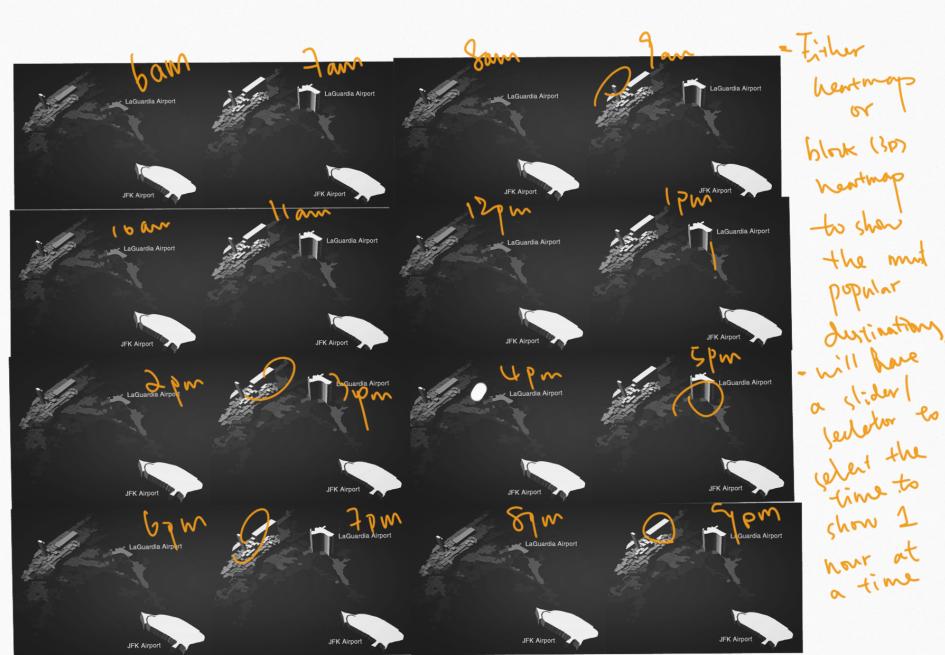
### DETAILS:

Use CSV taxi trip records provided by NYC TLC. The important variables are drop off and pick up time and locations.

## Idea

I have already done the exploratory visualization of the green taxi data for my undergraduate thesis and found out that there exist peaks and valleys of the number of taxi trips throughout a day. Based on the assumption that most people in the city tend to have a similar daily schedule – time to work, time to relax, time to home, .etc, it is plausible that there are different common destinations at different time of a day. Therefore, it would be interesting to figure out these common destinations and how they are distributed in the city. It could give some insights in the study of functional district division in a city.

## Sketch



# Proposal 3 - How to hail a cab in NYC when it rains

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## Data

### SOURCE:

[http://www.nyc.gov/html/tlc/html/about/trip\\_record\\_data.shtml](http://www.nyc.gov/html/tlc/html/about/trip_record_data.shtml) & OpenWeatherMap

### DETAILS:

Integrate CSV trip records provided by NYC TLC with JSON weather data from OpenWeatherMap. Focus on the pick up locations, if hailing or not. Query the weather for each pick up time.

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## Idea

Draw connections between weather and pick up locations, i.e. where passengers successfully get into cabs. Join the weather condition into taxi trips started by hailing. I have personally found it difficult to hail a taxi in certain neighborhood in NYC, and it becomes extremely hard when it rains (I beg even worse if it snows). A recommendation system based on the study of the relationship between weather conditions and pick up locations will be of great value to people to want to have a more efficient hailing experience.

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## Sketch

Time : \_\_\_\_\_ < input / read from clock  
Location : \_\_\_\_\_ gps input / select a neighborhood  
Weather : \_\_\_\_\_ select to see the difference of different weather / default : current weather

