Experiments with Place

@stevepeppple
Overview

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★ Background + Inspiration
★ Urban Sensors + Mission Experiments
★ Bay Area Art + Analysis + Urban Design
★ What’s next
About Me

Bay Area designer and developer who works to improve streets and civic systems—be it a municipal budget or bus service.

My recent work is art and analysis exploring urban reflections in cyberspace to understand people’s urban activity in physical places.

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Experiments with DIY sensors embedded in neighborhoods in seven different countries.
Gray Area + Stamen

As part of a creative coding fellowship with great Bay Area organization, I took 10 weeks last year to experiment with urban data and creative data visualizations of real-time neighborhood activity.
Gray Area + Stamen Fellowship
Trees, Cabs, Crimes
Urban Data

★ **Bus data** from NextBus API

★ **Train data** from BART API

★ **Zoning** information from SF Planning

★ **Point of Interest** data from Factual & Foursquare

★ **Real estate** and rental data from Craigslist, Trulia, etc.

★ Photos from Instagram

★ Post from Twitter

★ Environmental data from Weather Underground

★ Variety of data from [data.sfgov.org](http://data.sfgov.org) and [OpenOakland](http://OpenOakland)
San Francisco Pride Parade
Oakland Photos

Each photo is analyzed using color quantization and sentiment analysis.
Painting Buildings With Colors from Social Media
Density of Activity

Building with Activity with Social Media
Emotions

Where are people feeling good and where are they not?
From Art to Analysis

Following my creative work, I worked with a team of architects and urban designs to explore other regions and urban areas.

- Where are vibrant places?
- How are places connected by activity?
- How can urban planners use this information
Network of **Transportation** and **Secondary Roads** in Bay Area

Bay Area Transportation Network
Map of Bay Area Establishments and Transit Stops
Density of **Transit Frequency** at Transit Stops, Downtown Oakland

Where is their Density + Frequency of Transit Stops in Oakland?
Density of **Establishments** such as restaurants, Downtown Oakland

Where are there restaurants and other stores?
Density of **Social Activity** represented by photos

Where are people active as represented by photos?
Looking at Heat maps Together

TRANSPORT FREQUENCY

CULTURAL AMENITIES

INSTAGRAM PHOTOS
Density of Photos, Transit & Establishments in Oakland
What’s Next

How can data about urban environment be used for planning and engagement?

How can we imagine a world of screens and street-level interfaces that help people
Thank you!

Questions?

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