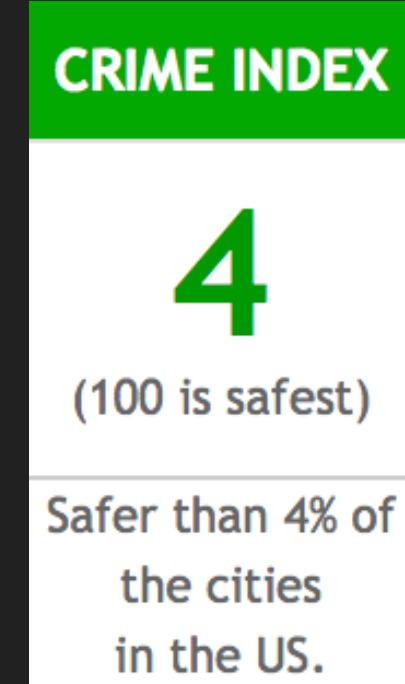
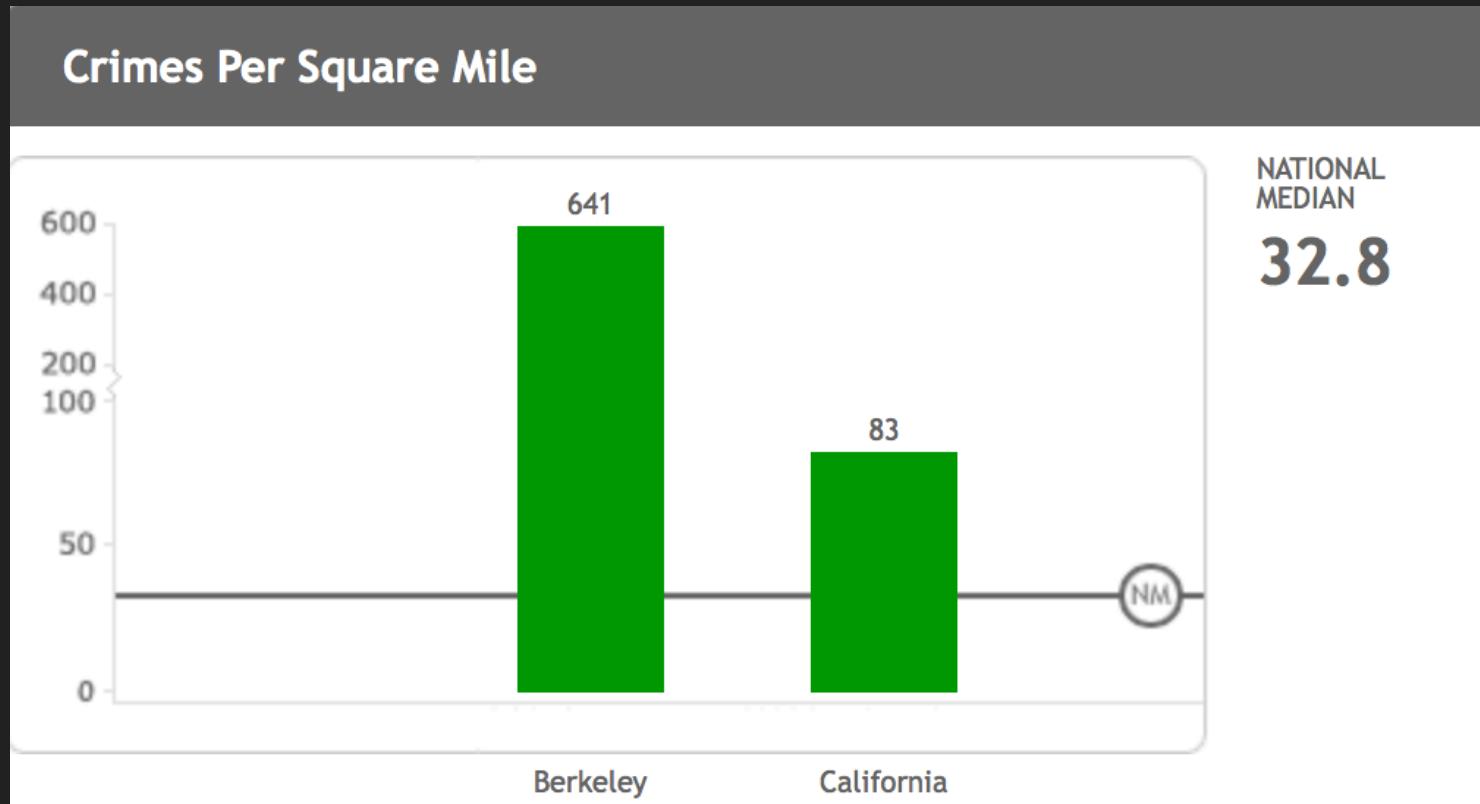


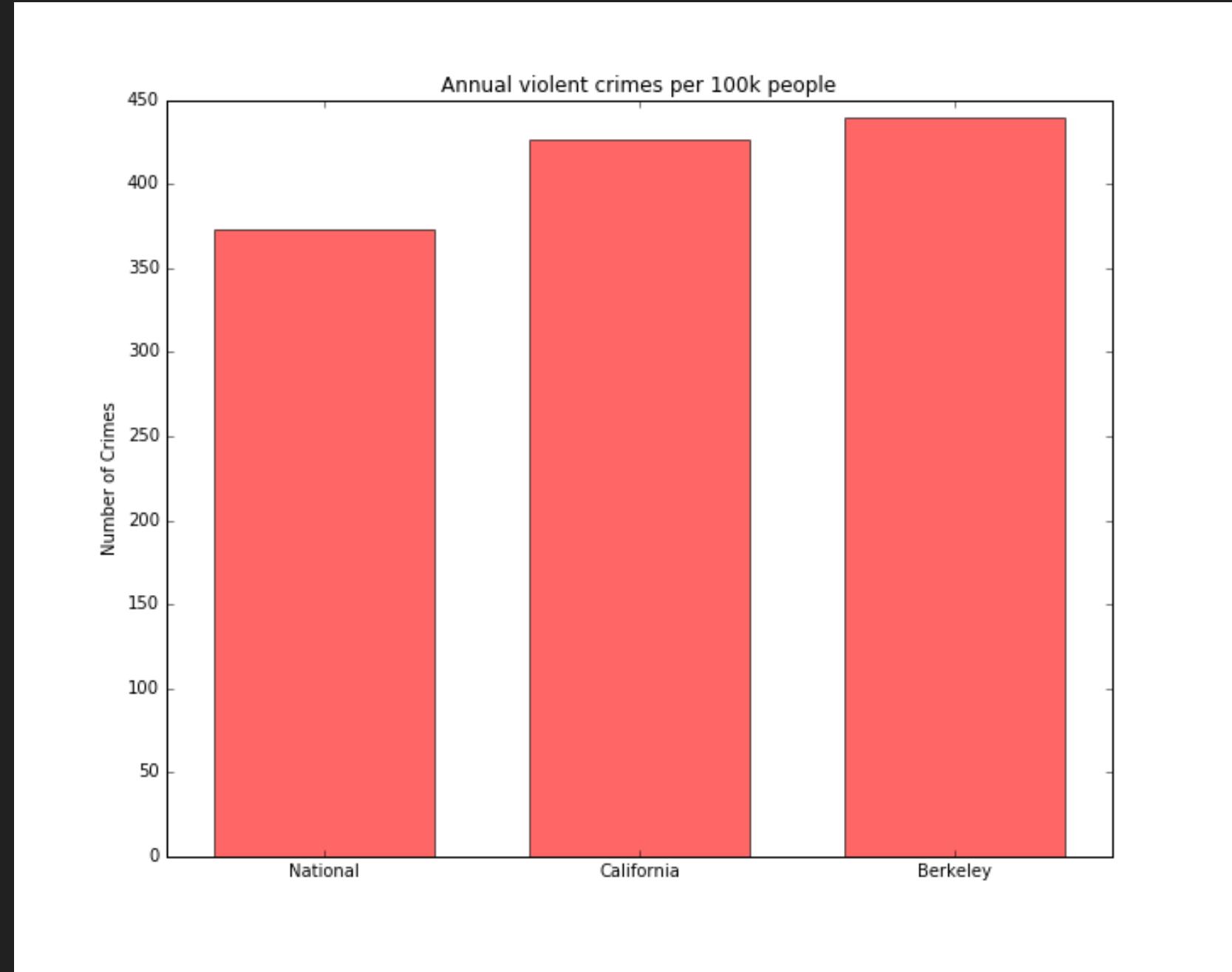
University of California.	Inbox	Advisory Message: Campus Safety Update - Dear Nixle User, Advisory Message has been issued by the University of Calif
University of California.	Inbox	Advisory Message: Clery Timely Warning: Strong-Arm Robbery (Suspects Arrested) - Dear Nixle User, Advisory Message h
University of Califor. (2)	Inbox	Advisory Message: Clery Timely Warning - Sexual Assault Investigation - Dear Nixle User, Advisory Message has been iss
Office of the Vice Chanc.	Inbox	October 20 Earthquake Drill - . * Nixle/WarnMe Test - At 10:20 am, UCPD will facilitate a test of the campus mass notificat
University of California.	Inbox	Advisory Message: Clery Timely Warning - Shooting Investigation - Dear Nixle User, Advisory Message has been issued by
University of California.	Inbox	Advisory Message: Clery Timely Warning: Strong-Arm Robbery - Dear Nixle User, Advisory Message has been issued by th
University of California.	Inbox	Advisory Message: Clery Timely Warning - Attempted Armed Robbery - Dear Nixle User, Advisory Message has been issue
University of California.	Inbox	Advisory Message: Clery Timely Warning - Armed Robbery - Dear Nixle User, Advisory Message has been issued by the U
University of Califor. (3)	Inbox	Advisory Message: Crime Advisory - Armed Robbery - Dear Nixle User, Advisory Message has been issued by the Universi
University of California.	Inbox	Advisory Message: Clery Timely Warning - Stalking - Dear Nixle User, Advisory Message has been issued by the Universit
University of Califor. (2)	Inbox	Advisory Message: Clery Timely Warning - Armed Robbery - Dear Nixle User, Advisory Message has been issued by the U
University of California.	Inbox	Advisory Message: Clery Timely Warning - Robbery via Simulated Firearm - Dear Nixle User, Advisory Message has been i
University of California.	Inbox	Advisory Message: Clerv Timely Warnina - Attemoted Robberv - Dear Nixle User. Advisorv Messaoe has been issued bv th

**THE TRAGIC CONDITION OF EVERY BERKELEY STUDENT'S INBOX – AN ANALYSIS OF CRIMES IN BERKELEY**

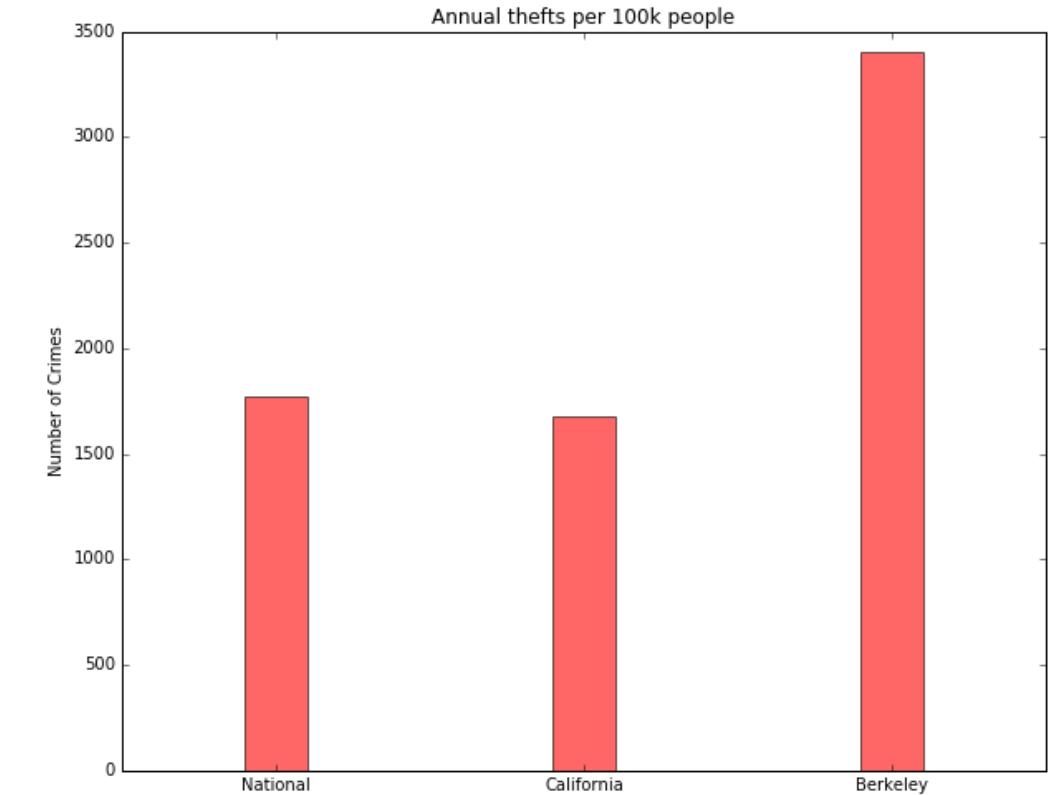
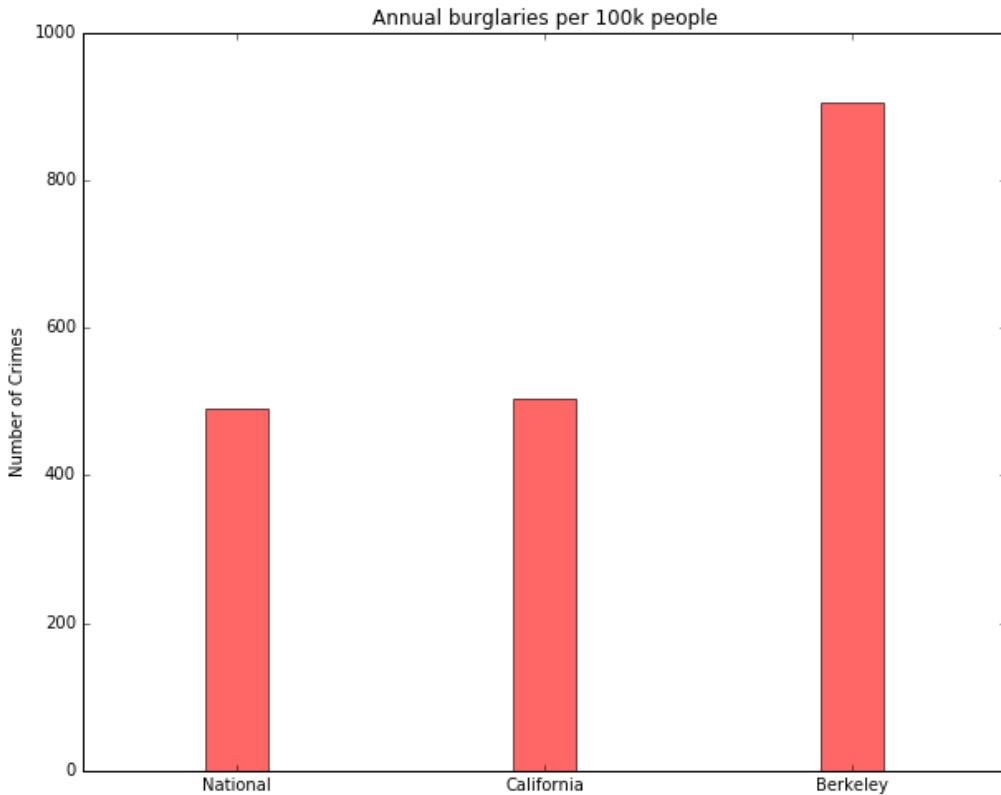
# Berkeley is considered safer than 4% of the cities in the US



**Berkeley beats the state and national average for violent crimes in a year**



## Berkeley burglaries and thefts far outscore the state and national average



Business Insider ranks UC Berkeley third most dangerous college in America



# Crimes in Berkeley – A Spatial Look

# Data

## City of Berkeley Open Data Portal

- Crime Locations
- Type of Crime (Theft, Narcotics, Missing Person, Homicide, etc.)
- Occurrence month
- Occurrence day of the week
- Occurrence time (Morning, Evening, Afternoon, Night)

# Approach

## *Analysis*

- *Crime Behavior*
- Crime Intensity Maps
- Violent vs. Non-violent crimes
- Influence of BART stations

## *Recommendation*

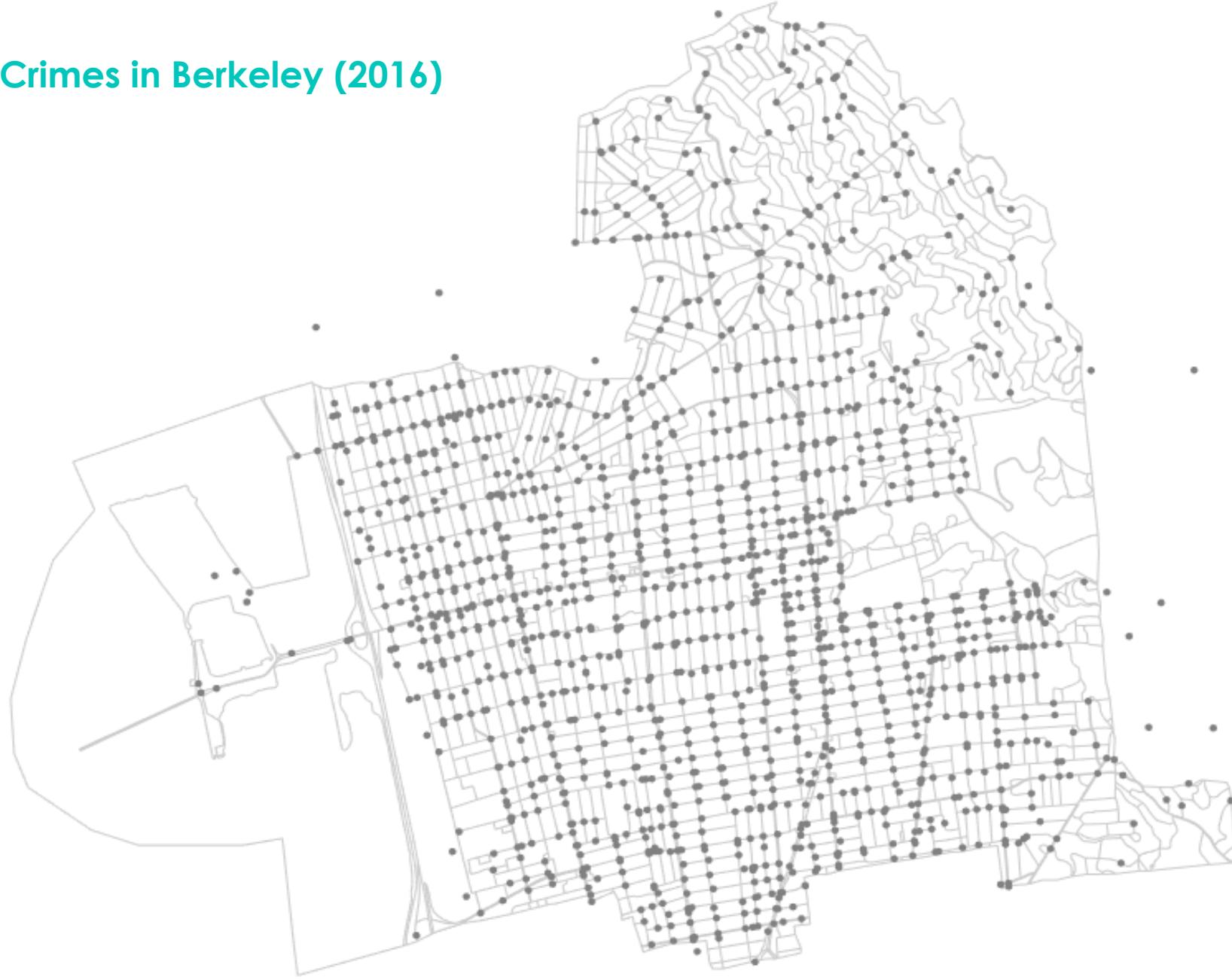
- Distance Optimality
- Accounting for Safety of Public Schools

# Analysis

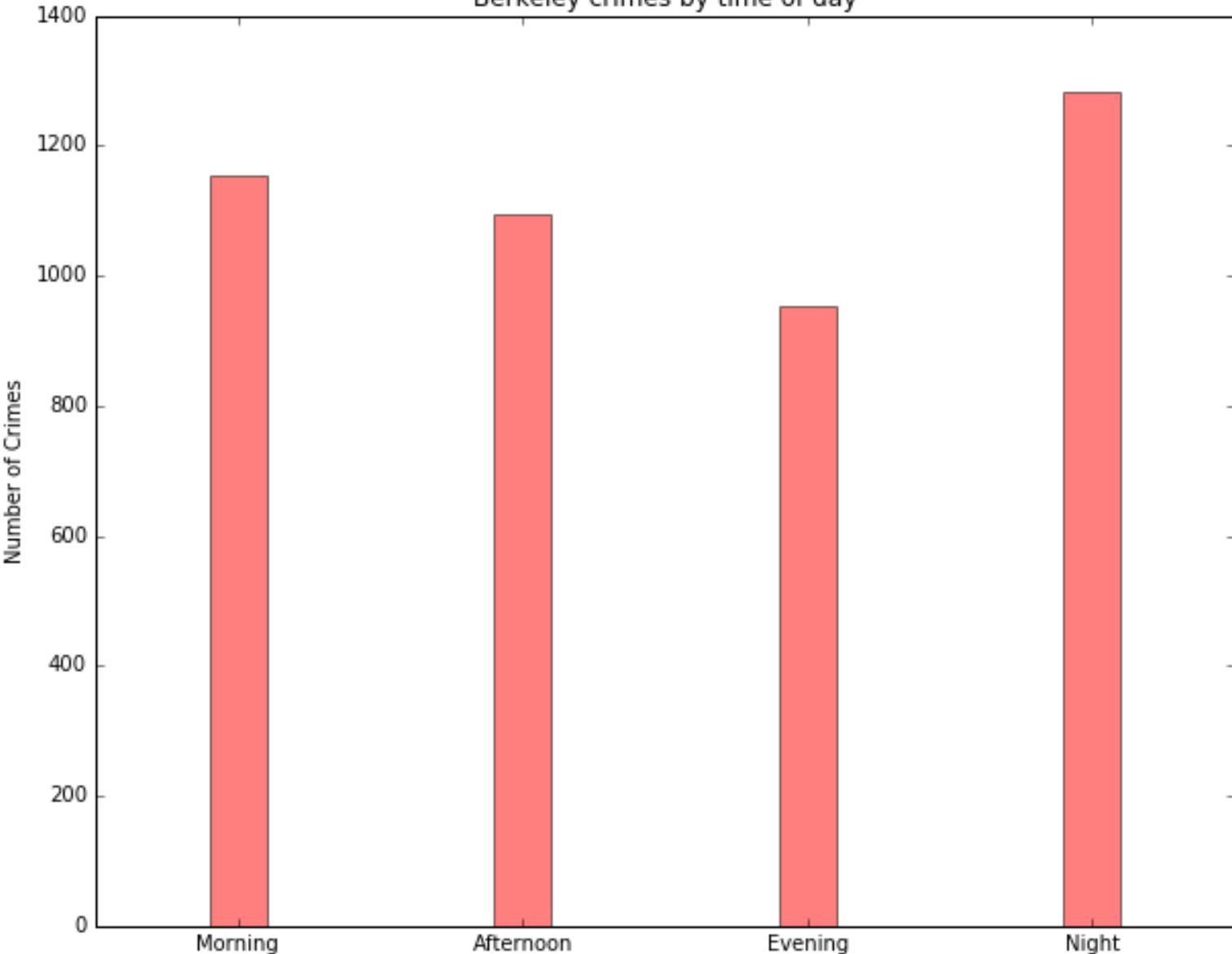
# Berkeley



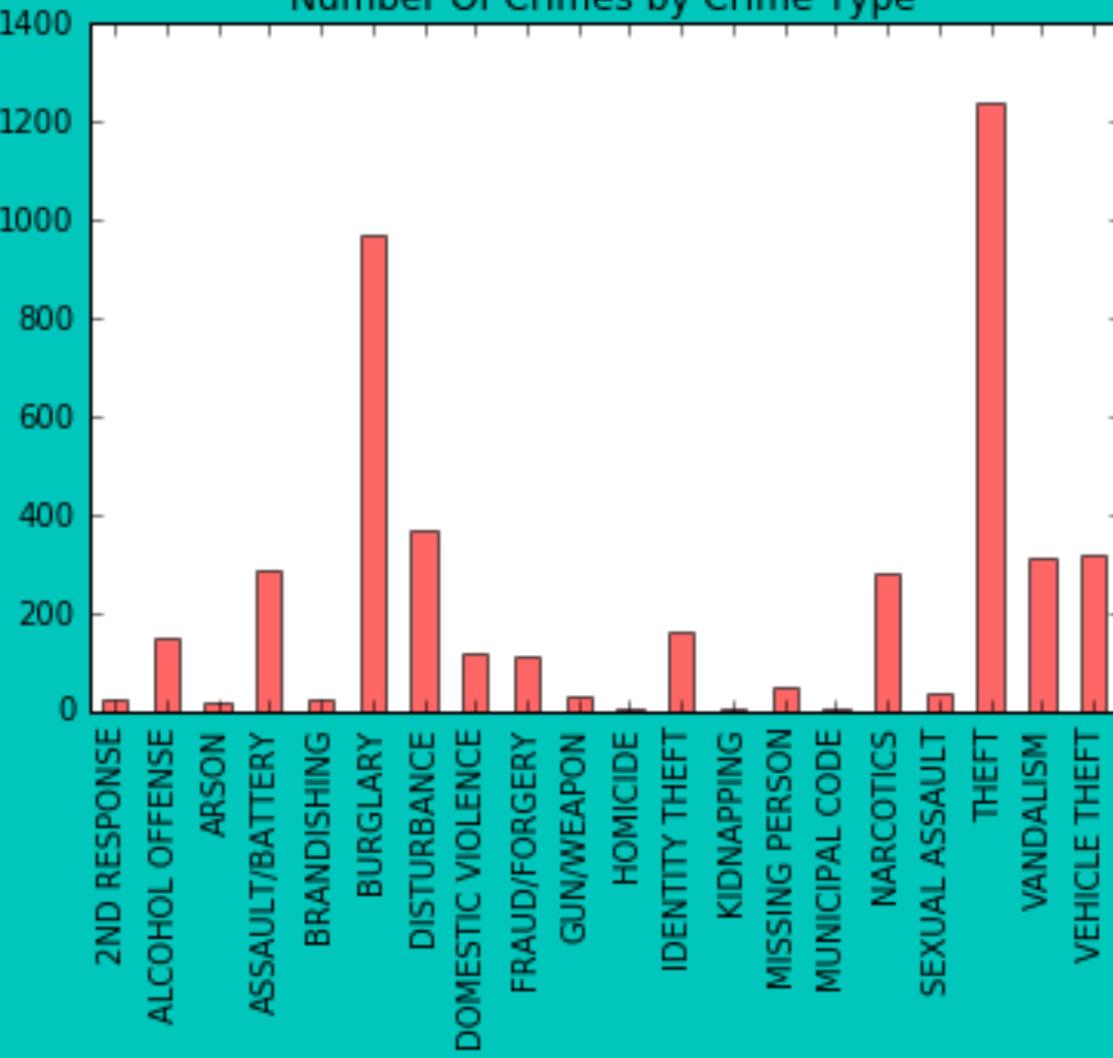
## Crimes in Berkeley (2016)



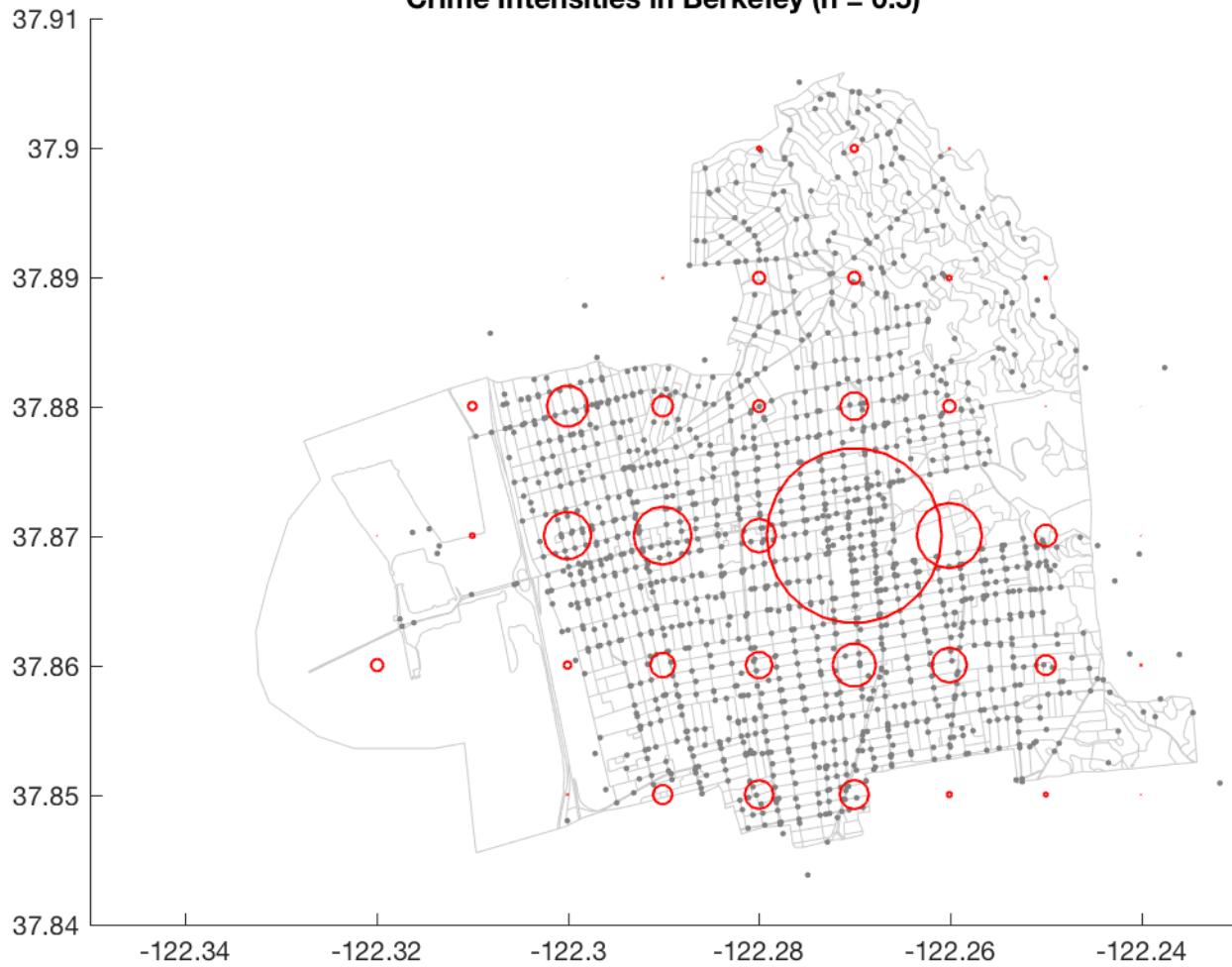
Berkeley crimes by time of day



### Number Of Crimes by Crime Type

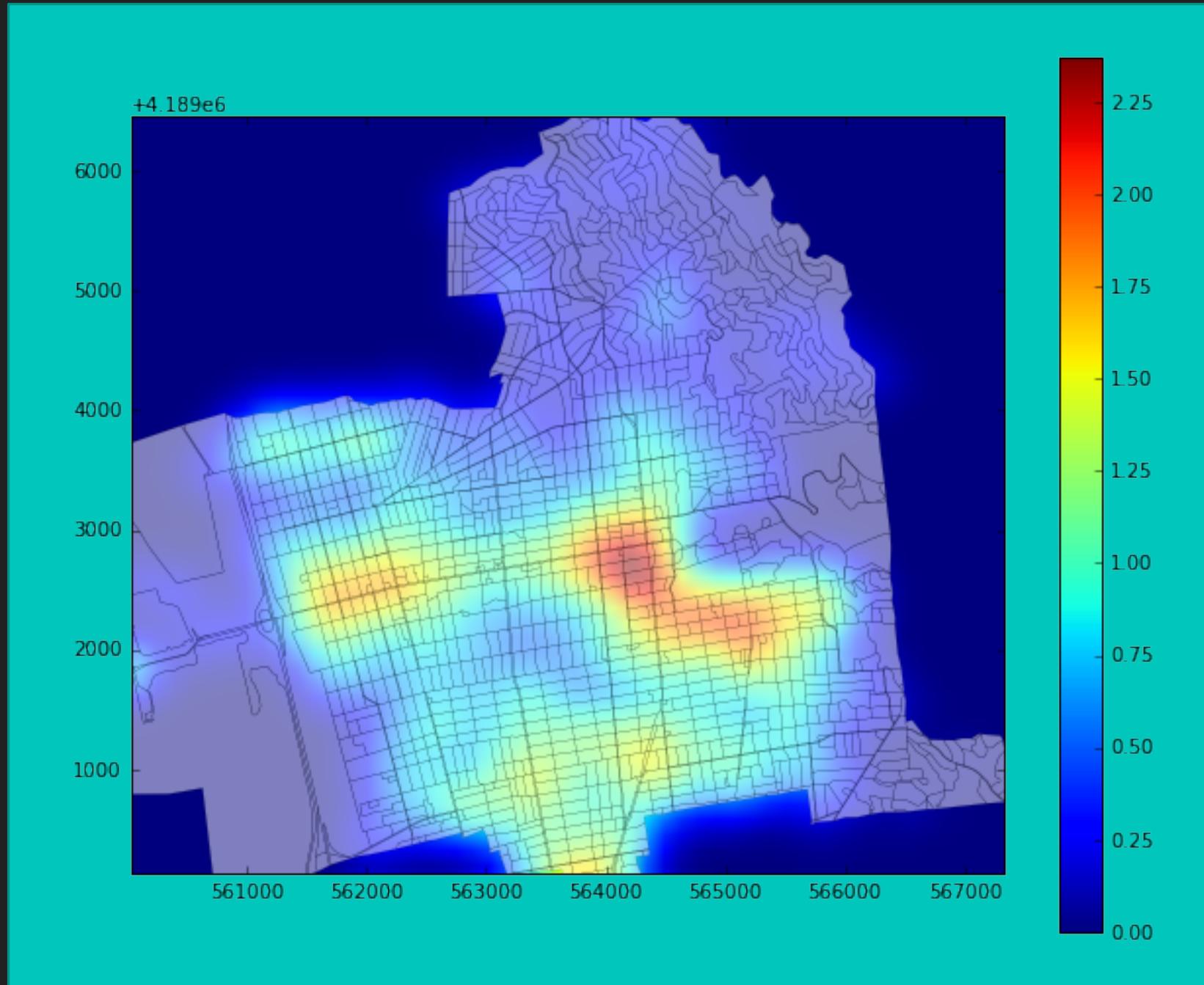


**Crime Intensities in Berkeley ( $h = 0.5$ )**

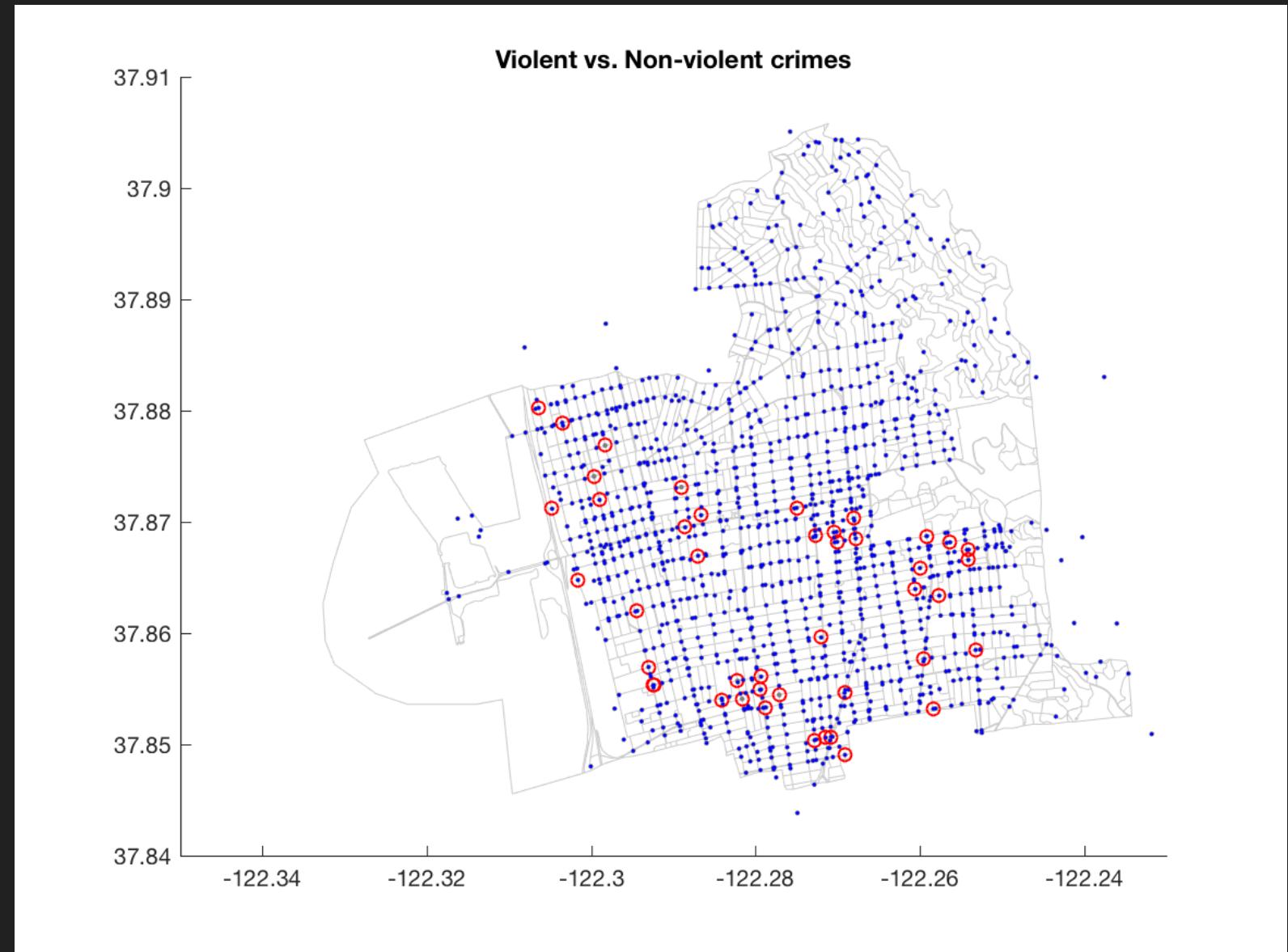


Areas close to  
campus and  
Downtown Berkeley  
are high-risk areas

# Intensity Field of crimes in Berkeley (2016)



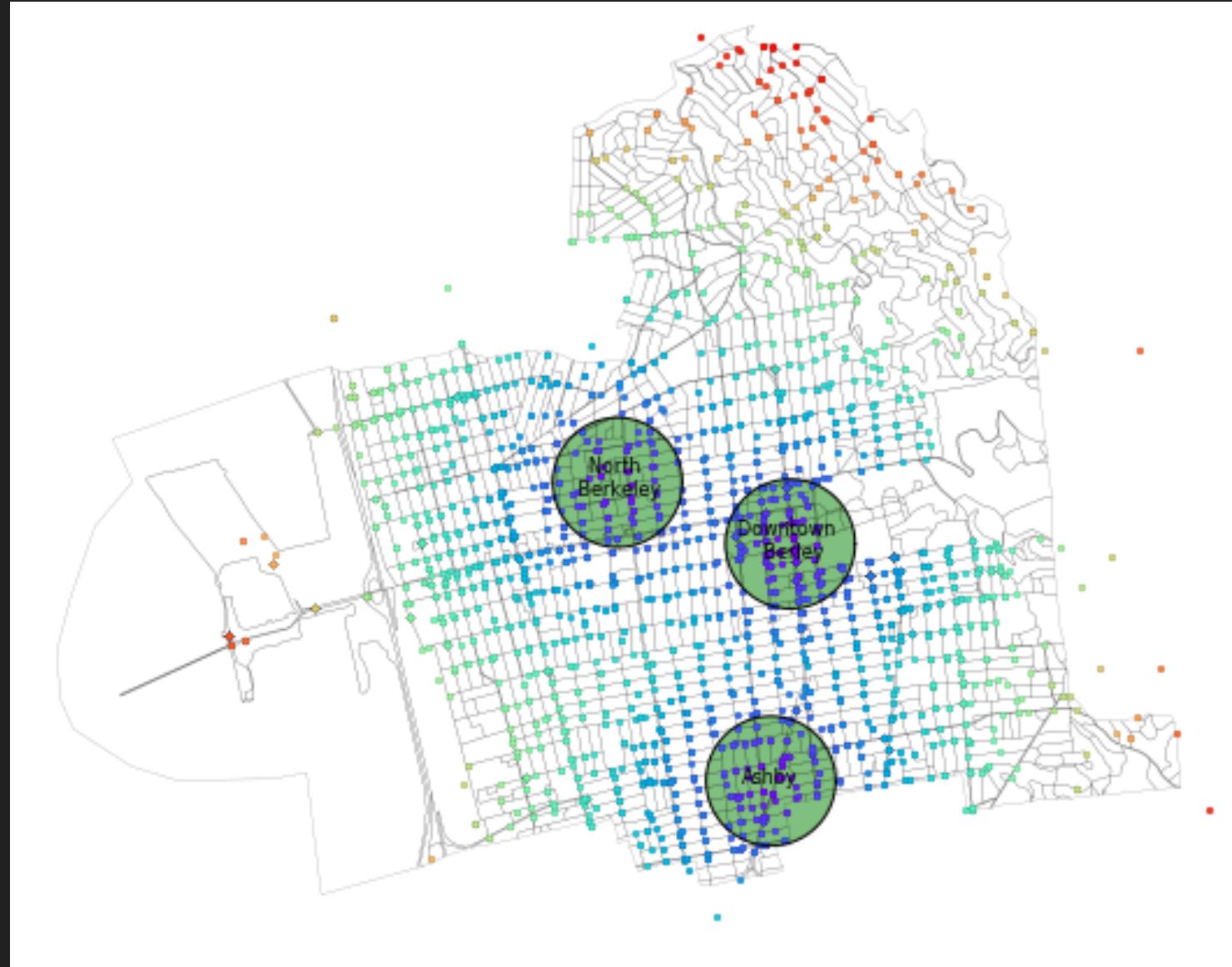
**Violent crimes (red) are skewed towards the southern and western parts of Berkeley**





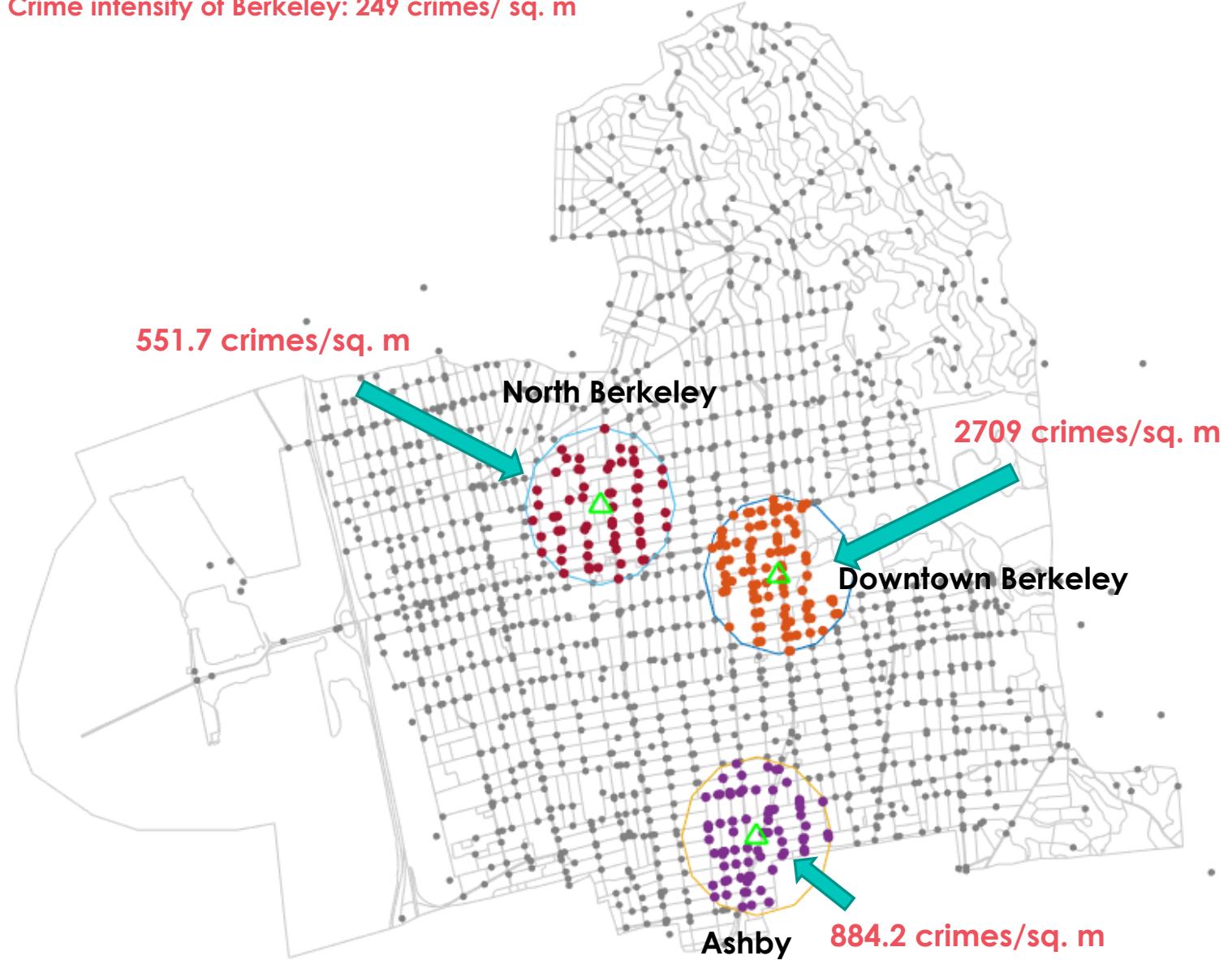
Berkeley **BART** stations  
with buffers

**Intensity of crimes  
around BART stations is  
extremely high**

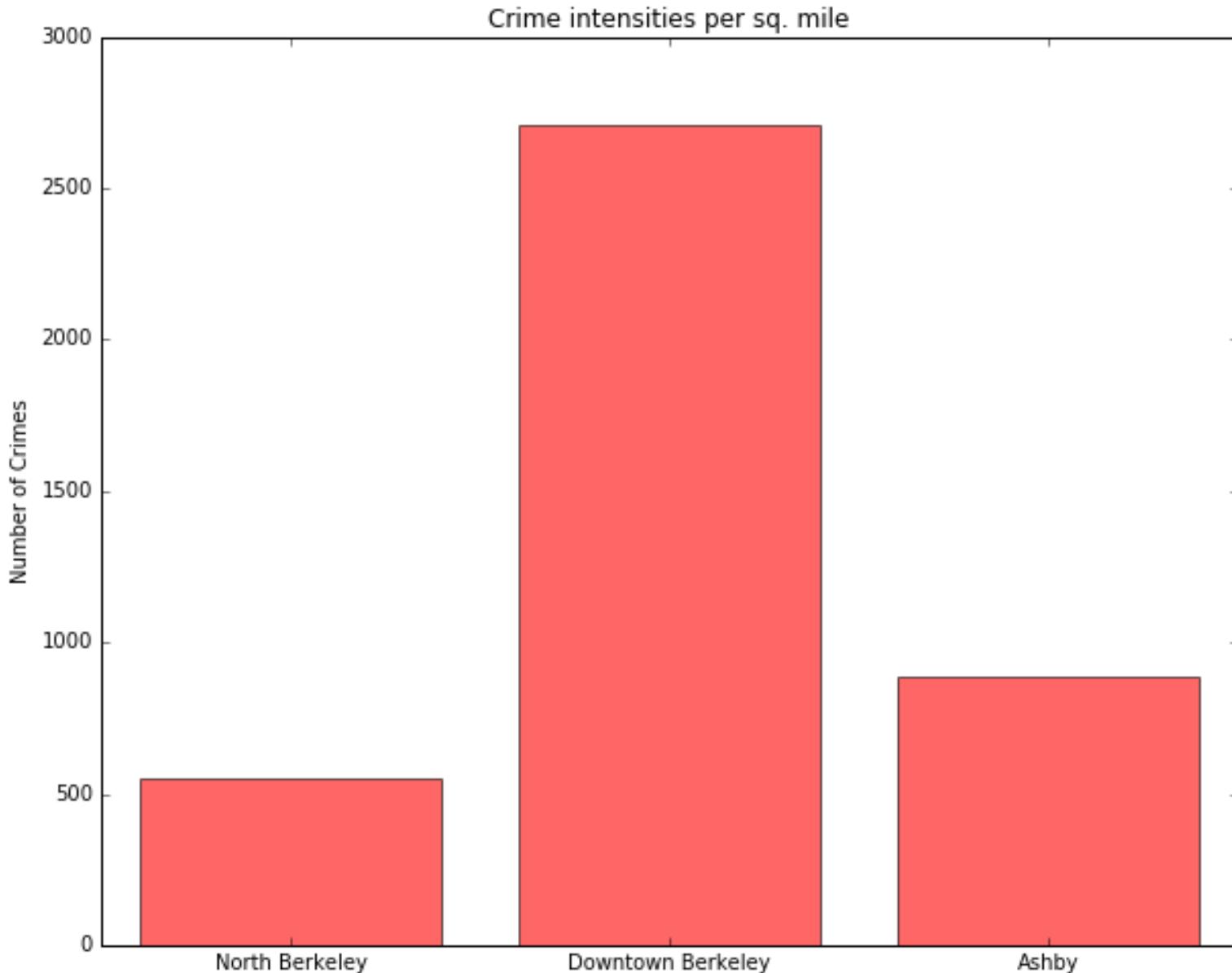


**Crimes are  
clustered around  
BART stations**

Crime intensity of Berkeley: 249 crimes/ sq. m



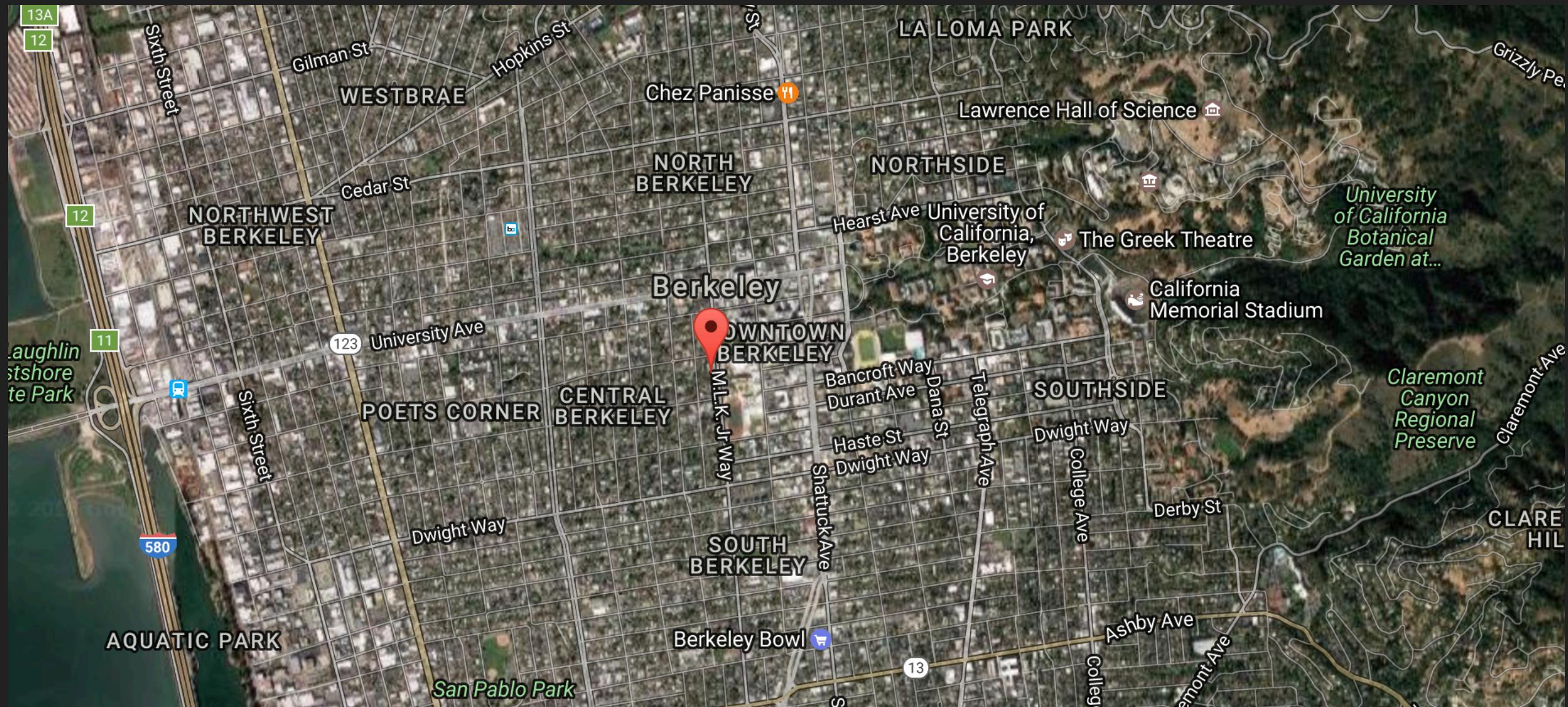
**Downtown  
Berkeley BART  
station is the  
worst affected**



# Recommendation

## Step 1: Distance Optimality based on all crimes





2175 M.L.K. Jr Way

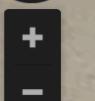
Berkeley, California



Street View - Jun 2016



Google



2175 M.L.K. Jr Way

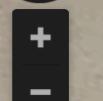
Berkeley, California



Street View - Jun 2016



Google



2175 M.L.K. Jr Way

Berkeley, California



Street View - Jun 2016

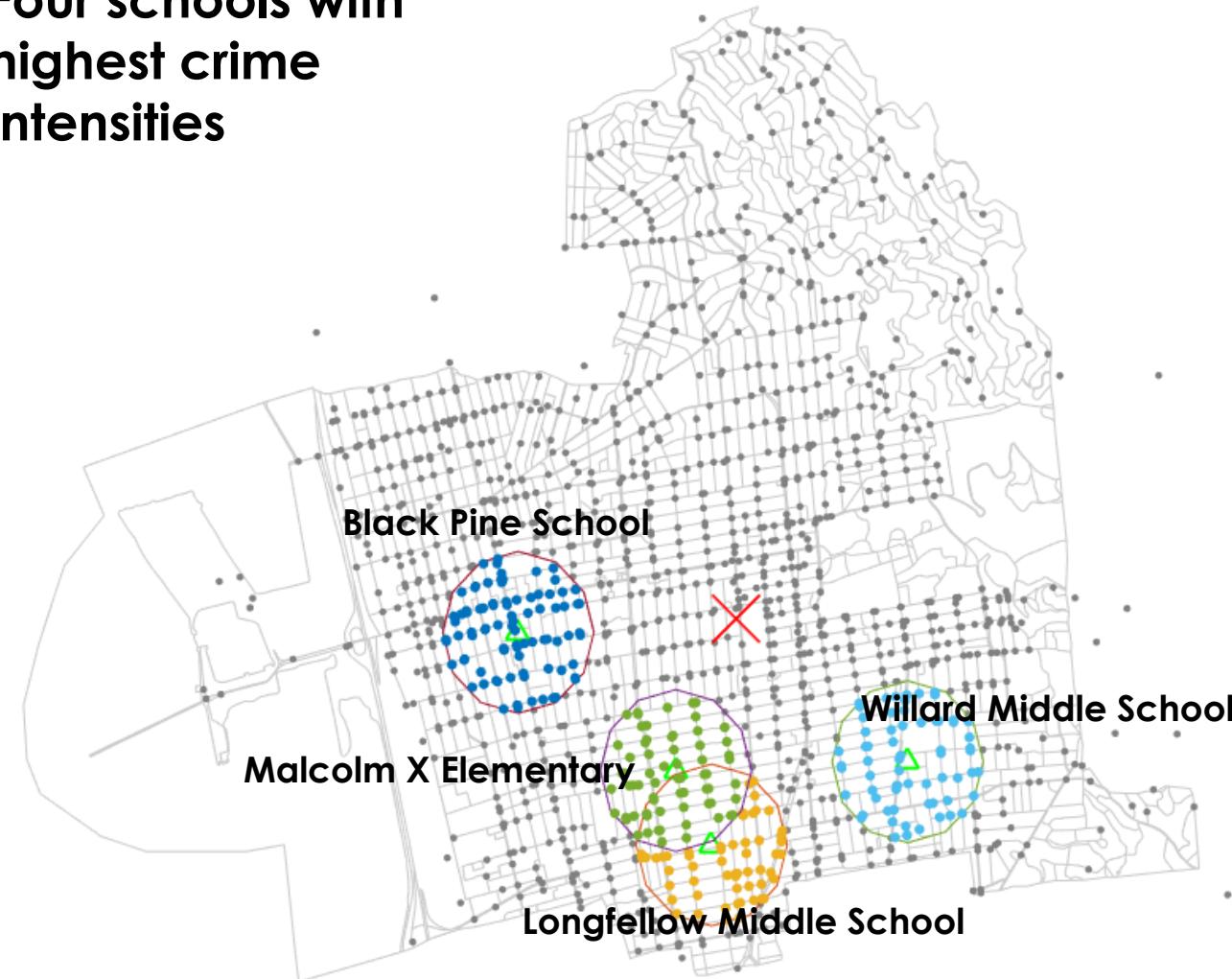


Berkeley Police  
Department



## Step 2: Taking the safety of public schools into account

**Four schools with  
highest crime  
intensities**

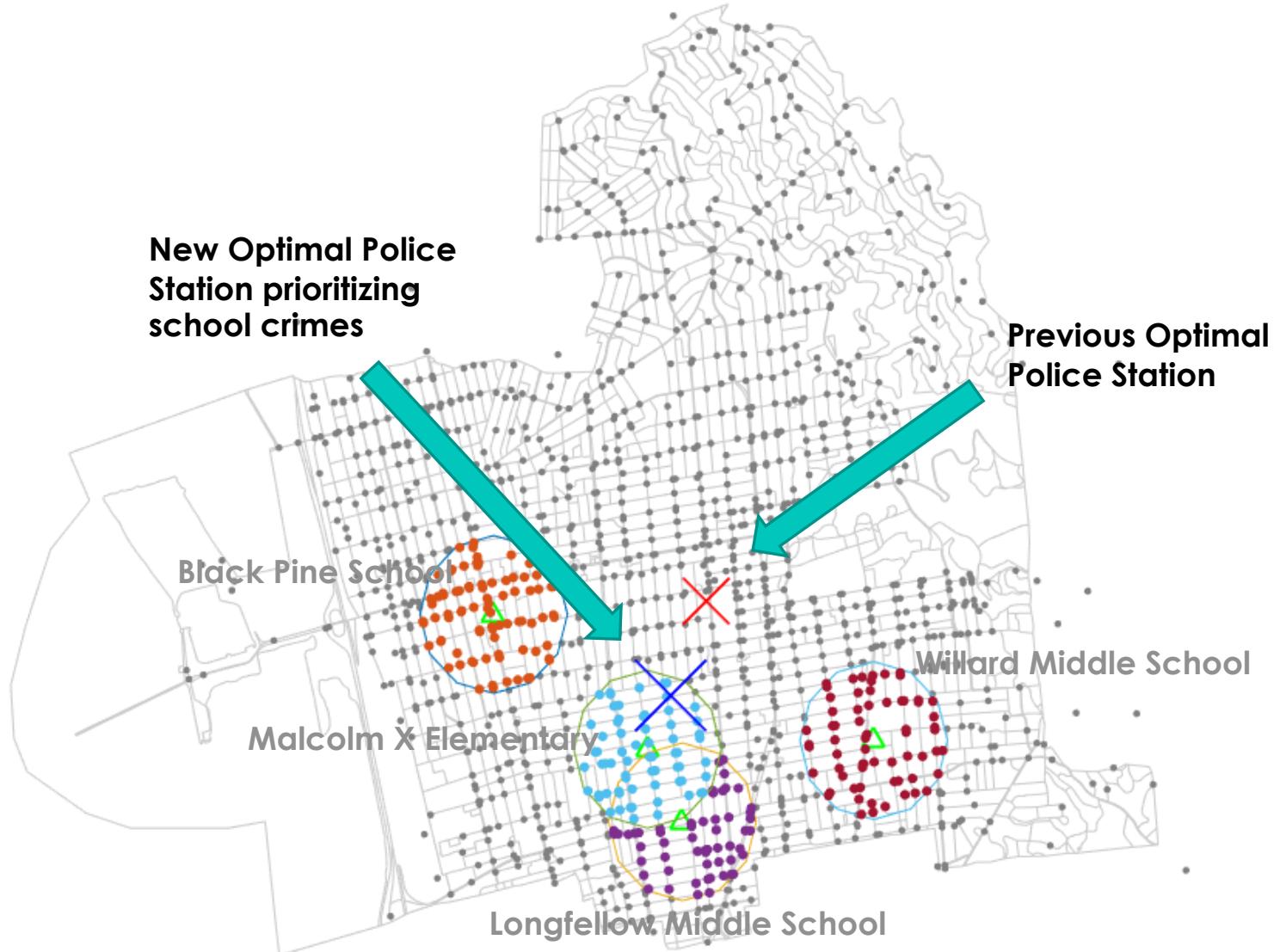


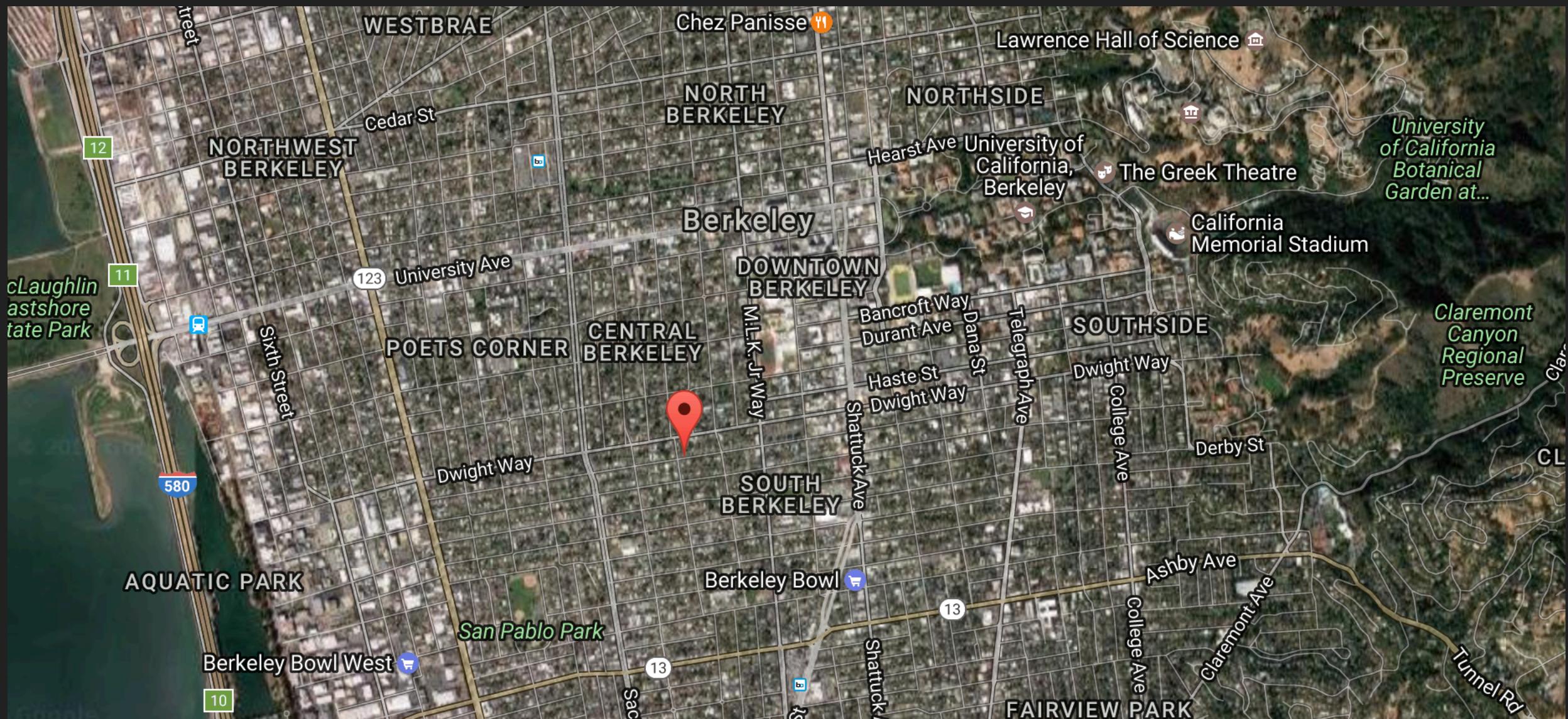
**Crime Intensity around  
the four schools is  
extremely high**

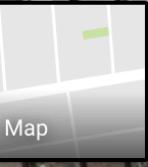
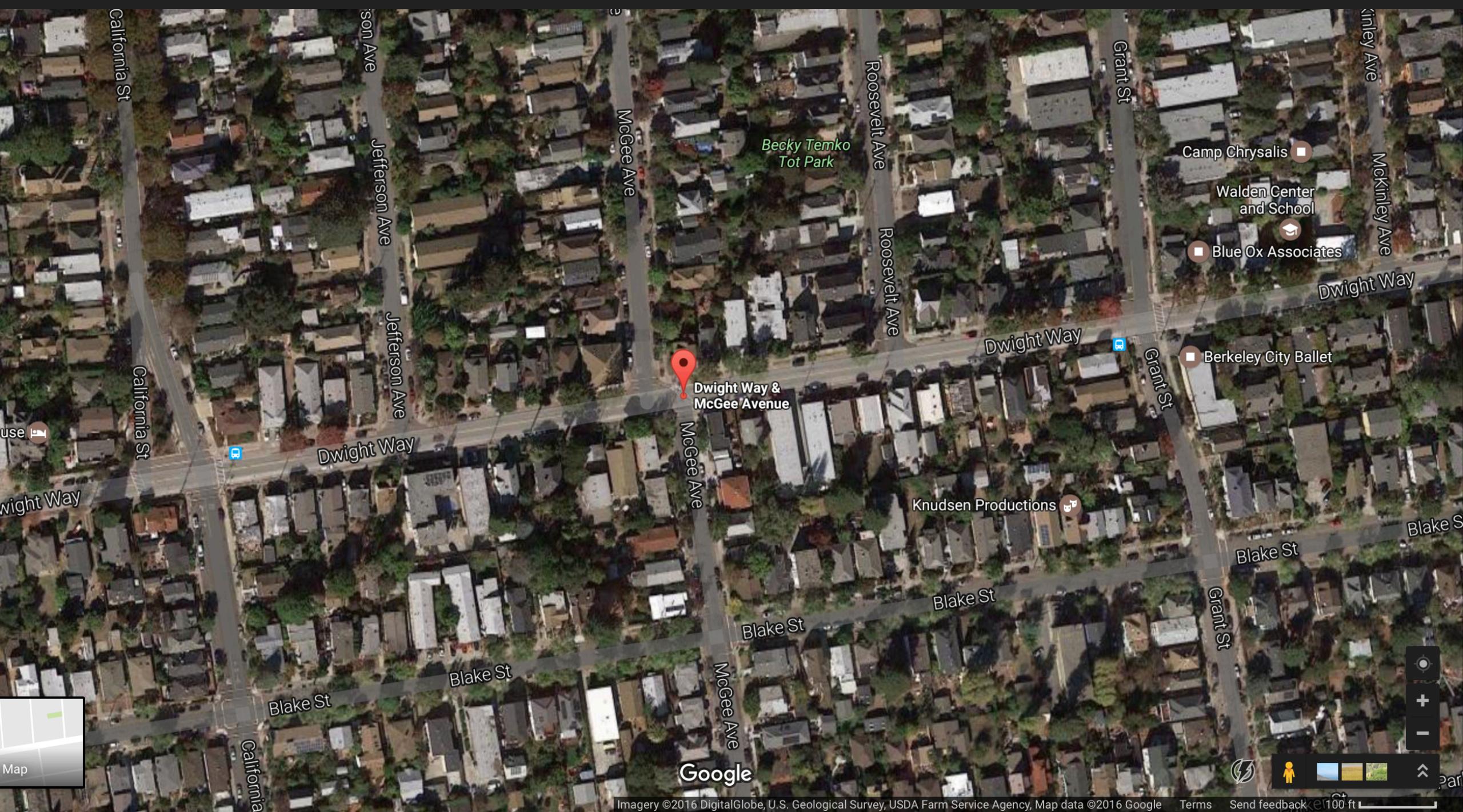
Crime intensity of Berkeley: 249 crimes/ sq. m



Prioritizing the school crimes in the distance optimality calculation provides a more optimal location for the police station







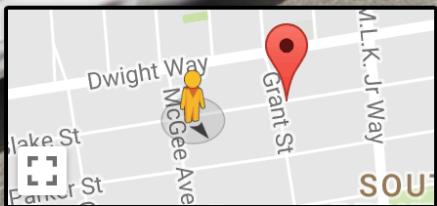
Map

Google

1704 Blake St  
Berkeley, California



Street View - Mar 2015



Google



# Thank You. Stay Safe!

Shirish Dhar