

Title	Introduction	Crime Rate By Day & Time	Crime Rate By Top 10 Categories	Housing Price By Neighborhood	Crime Vs House Prices/Rent	Solve Rate & Change In Crime	Crime Trend (2010 to 2017)	Livability Score	Recommendations	P ..
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San Francisco's Crime & Housing Data Analysis

Team Vigilantes

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Introduction

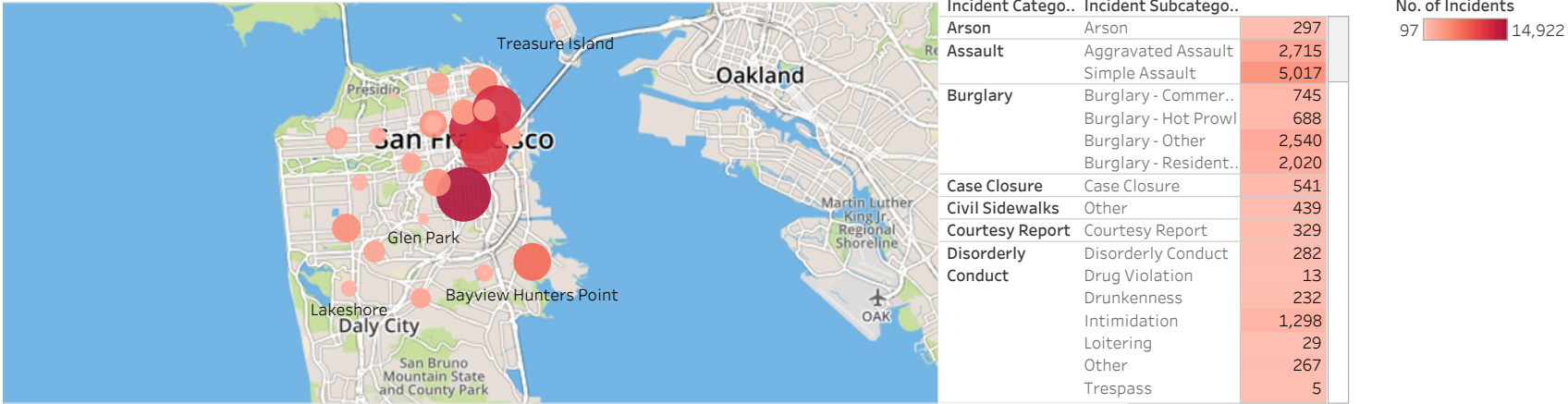
Vigilantes is a site for buyers and renters to find homes and neighborhoods that are safe and affordable across San Francisco. It provides recommendations through map overlays that offer details on Crime, Crime trends, Housing, Rent and Schools for the neighborhood.

Goals

1. To analyze the crime rates and occurrences in San Francisco
2. To help prospective buyers find the safest and most affordable place to buy/rent a house in San Francisco

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Which area has maximum Crime Rate?



Incident Da..	Time of Crime											
	4AM-6AM	6AM-8AM	8AM-10A..	10AM-12..	12PM-2PM	2PM-4PM	4PM-6PM	6PM-8PM	8PM-10PM	10PM-12..	12AM-2A..	2AM-4AM
Monday	492	797	1,443	1,725	2,144	1,861	2,141	2,052	1,597	1,257	1,247	599
Tuesday	437	775	1,500	1,678	2,154	2,021	2,096	2,279	1,736	1,259	1,095	596
Wednesday	459	839	1,538	1,876	2,245	1,966	2,251	2,177	1,812	1,368	1,068	533
Thursday	412	809	1,495	1,655	2,066	1,887	2,121	2,268	1,765	1,335	1,077	601
Friday	473	794	1,493	1,833	2,125	2,027	2,185	2,341	1,967	1,662	1,264	596
Saturday	433	563	1,190	1,628	1,910	1,876	2,121	2,108	1,803	1,742	1,591	833
Sunday	421	570	1,047	1,550	1,845	1,659	1,932	1,773	1,624	1,252	1,590	841

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Neighborhood	Incident Category									
	Larceny Theft	Assault	Motor Vehicle Theft	Burglary	Offences Against The Family And Child.	Missing Person	Warrant	Robbery	Fraud	Drug Violation
Bayview Hunters Point	1,052	718	467	331	291	284	239	206	155	94
Bernal Heights	481	146	142	108	56	55	62	69	70	30
Castro/Upper Market	1,183	269	125	231	59	60	171	80	99	74
Chinatown	717	140	43	93	47	63	60	67	68	28
Excelsior	257	173	117	117	85	108	66	96	76	46
Financial District/Sout..	4,800	615	216	764	139	112	360	386	402	110
Glen Park	167	34	26	58	21	16	14	13	15	7
Golden Gate Park	508	50	47	37	11	67	36	14	22	22
Haight Ashbury	582	115	95	93	28	133	91	13	55	54
Hayes Valley	1,463	128	116	182	50	77	64	64	73	25
Inner Richmond	549	50	40	53	34	57	30	29	59	11
Inner Sunset	442	66	67	83	36	94	31	8	51	6
Japantown	738	40	15	31	13	18	19	29	36	4
Lakeshore	540	79	58	52	28	17	33	23	81	3
Lincoln Park	68			2	2		2		2	2
Lone Mountain/USF	465	63	72	79	62	203	45	24	41	8
Marina	1,108	109	73	229	26	20	45	53	97	10
McLaren Park	18	8	7	7			3	1	2	
Mission	3,641	1,219	561	472	330	376	790	396	314	412
Mission Bay	671	116	38	108	37	63	51	24	113	21
Nob Hill	1,057	183	140	209	53	55	101	79	119	28
Noe Valley	330	44	72	148	27	15	10	19	32	2
North Beach	2,239	160	86	138	53	36	107	73	117	33
Oceanview/Merced/Ing..	292	95	75	91	54	53	41	35	65	8
Outer Mission	255	109	76	109	58	97	50	62	46	27
Outer Richmond	867	89	120	94	81	82	42	29	108	21
Pacific Heights	738	55	78	173	32	51	29	21	56	4
Portola	326	76	88	79	39	39	31	75	30	17
Potrero Hill	768	86	98	123	49	37	60	35	52	19
Presidio	84	48	5		8	5	8	4	15	

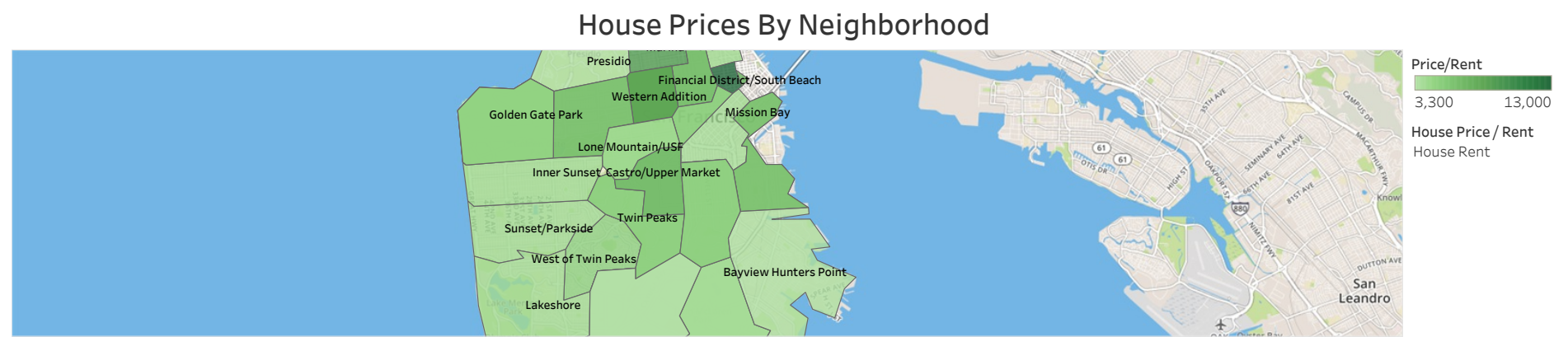
Neighborhood

All

No. of Incidents

1  4,800

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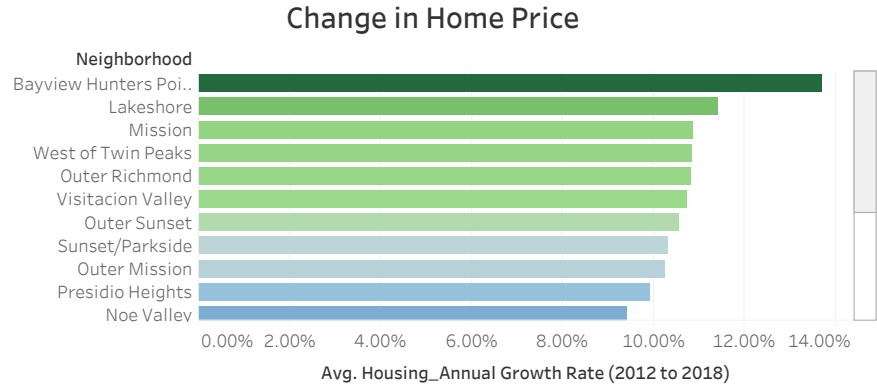


Commute Statistics

Neighborhood	Walk Score	Bike Score	Transit Score
Bayview Hunters Po..	84	70	70
Bernal Heights	97	99	85
Castro/Upper Market	96	60	90
Chinatown	97	64	100
Excelsior	85	65	91

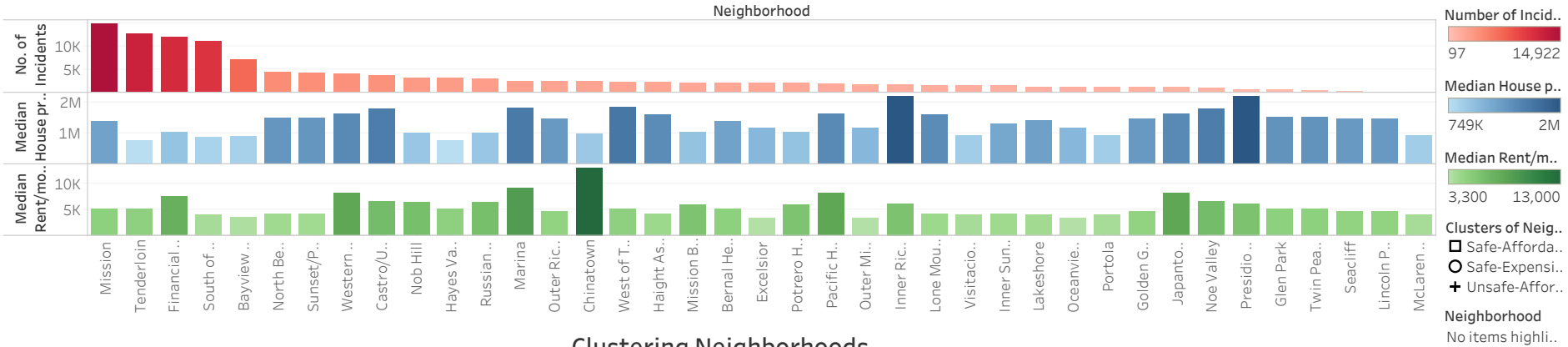
School Statistics

Neighborhood	Elementary Sch..	Middle School	High School
Bayview Hunters Po..	6	7	10
Bernal Heights	9	9	10
Castro/Upper Market	9	6	10
Chinatown	8	N/A	10
Excelsior	8	4	10

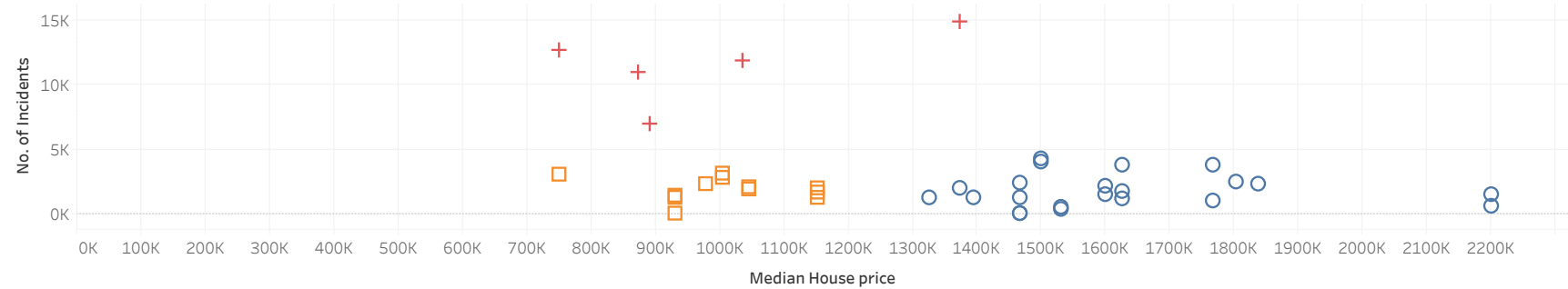


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Relationship Between House Prices/Rent with Number of Incidents

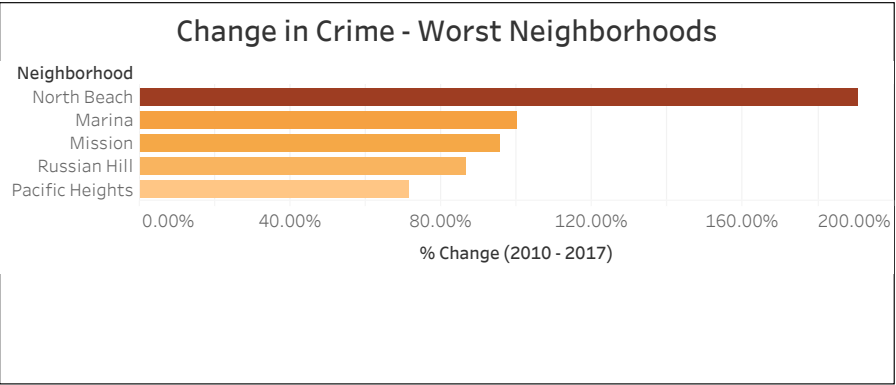
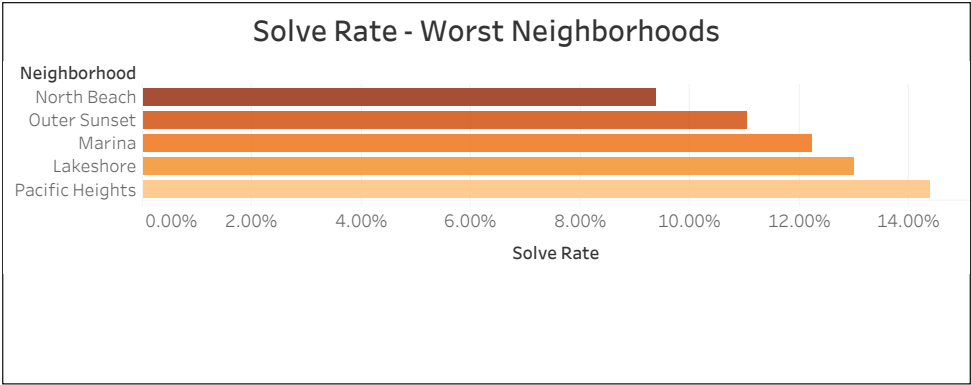
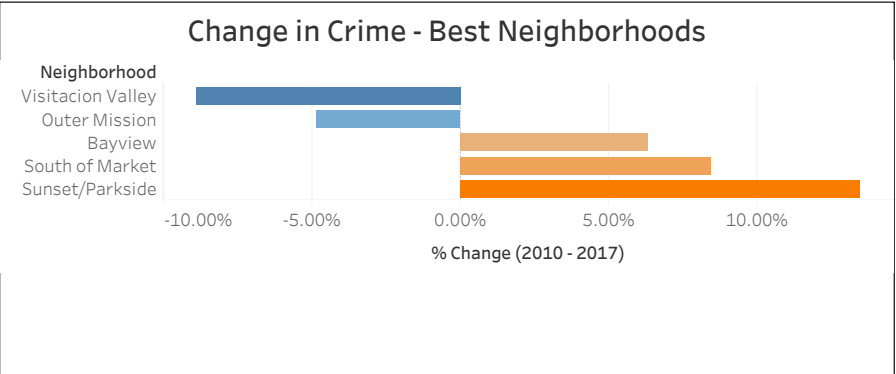
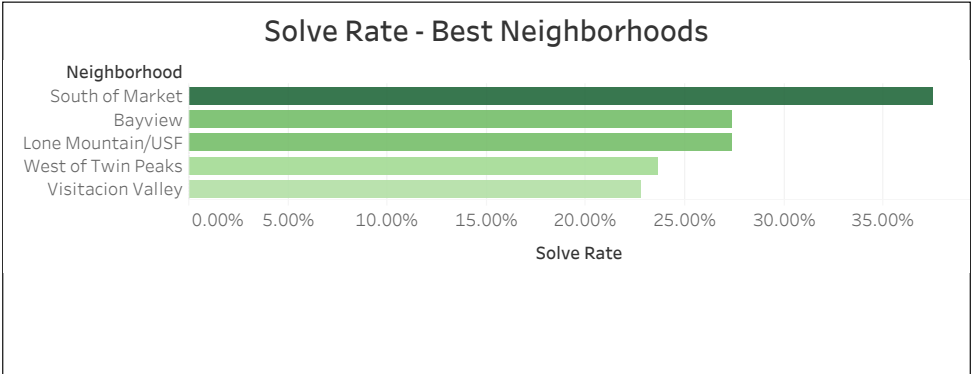


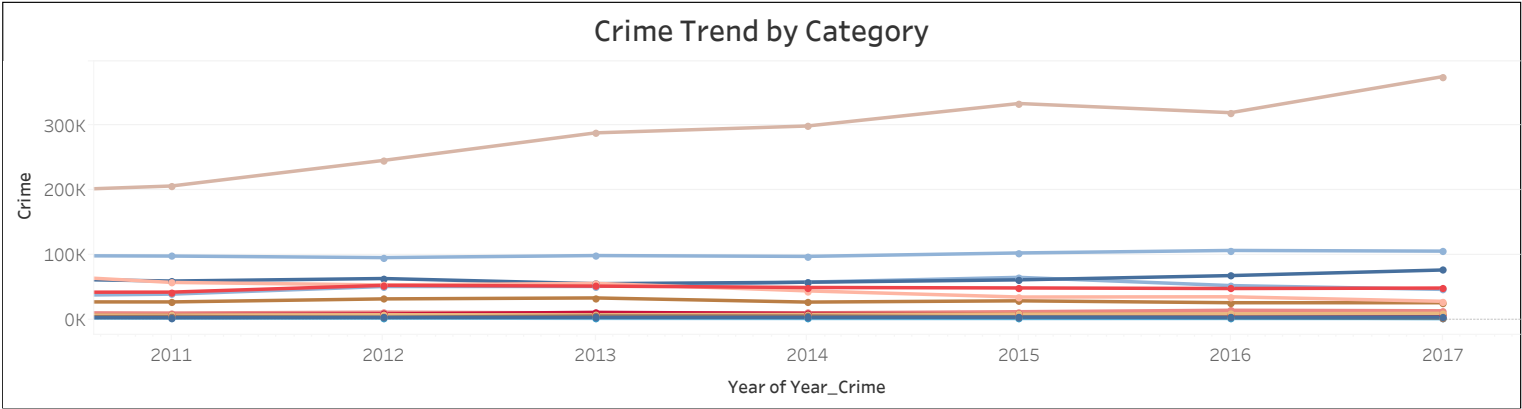
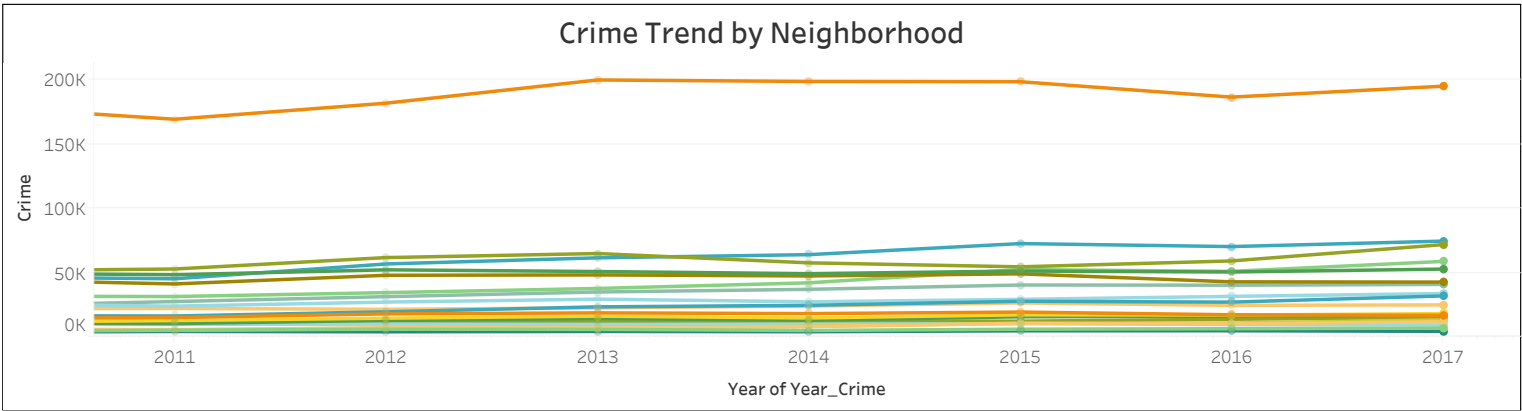
Clustering Neighborhoods



T ...	Introduction	Crime Rate By Day & Time	Crime Rate By Top 10 Categories	Housing Price By Neighborhood	Crime Vs House Prices/Rent	Solve Rate & Change In Crime	Crime Trend (2010 to 2017)	Livability Score	Recommendations	Pipeline
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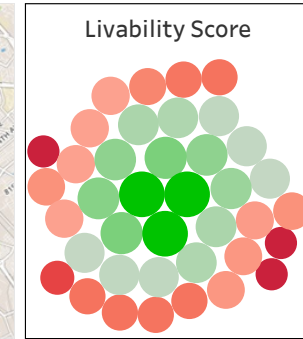
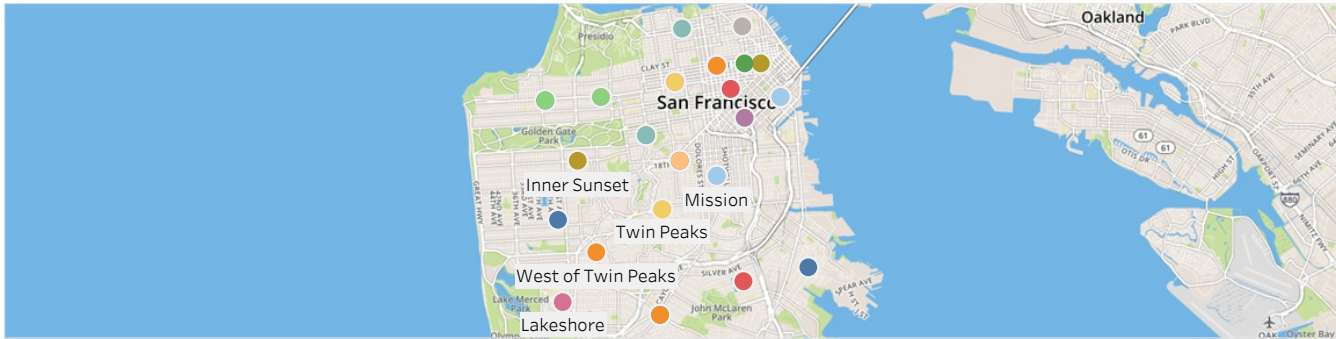
Solve Rate & Change in Crime





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San Francisco Livability Info



Livability Score
49.740461132 to 100
and Null values

House price
749,000 to 2,200,000
and Null values

Rent Per Month
3,300 to 13,000
and Null values

High School Rating
All values

Middle School Rating
All values

Elementary School Rating
All values

Neighborhood
All

Neighborhood

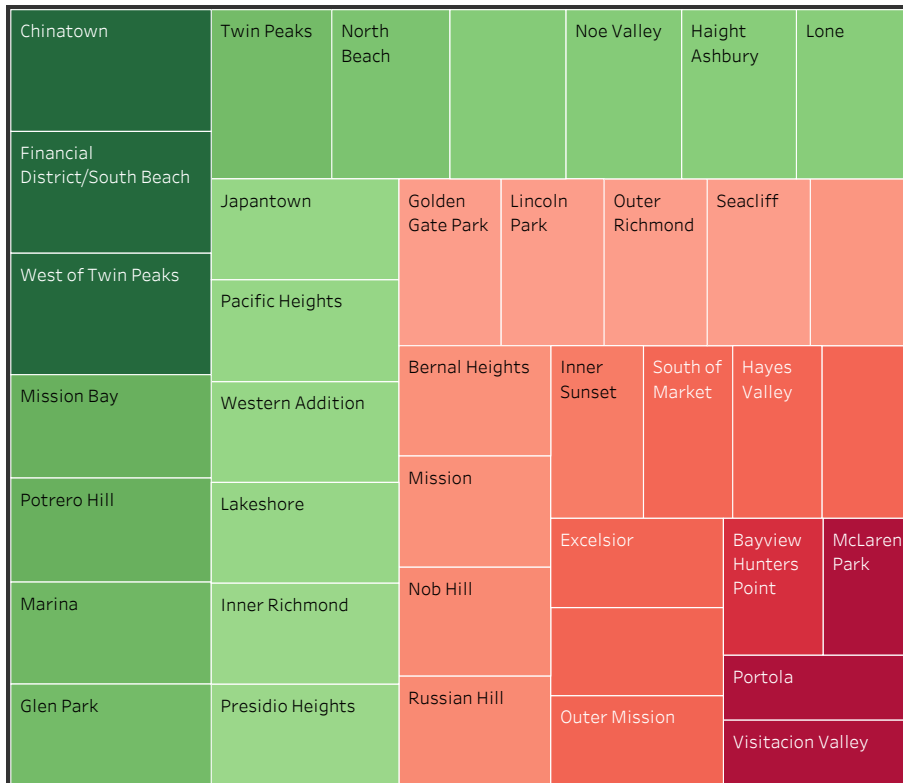
- Bayview Hunters Point
- Bernal Heights
- Castro/Upper Market
- Chinatown
- Excelsior
- Financial District/Sou...

Housing Info			
Neighborhood	House price	Price Per Sqft	Rent Per Month
Bayview Hunters Point	890,000	700	3,500
Bernal Heights	1,373,500	1,218	4,950
Castro/Upper Market	1,766,250	1,353	6,499
Chinatown	977,500	1,298	13,000
Excelsior	1,151,500	938	3,300
Financial District/South..	1,034,500	975	7,395
Glen Park	1,530,000	1,216	4,945
Golden Gate Park	1,466,000	982	4,680
Haight Ashbury	1,600,000	1,235	4,122
Hayes Valley	749,000	1,063	4,900
Inner Richmond	2,200,000	1,177	5,997
Inner Sunset	1,325,000	1,013	4,050
Japantown	1,625,000	1,197	8,100
Lakeshore	1,395,000	910	3,950

Neighborhood Info					
d	Walk Score	Transit Score	High School	Middle School	Elementary School
B.	84	70	10	7	6
B.	97	85	10	9	9
C.	96	90	10	6	9
C.	97	100	10	Null	8
E.	85	91	10	4	8
F.	98	100	10	Null	9
.	72	70	10	Null	9
.	84	73	10	8	9
.	93	84	10	Null	9
.	92	100	10	Null	8
I..	92	79	10	8	9
I..	89	67	10	10	10
J.	98	83	10	8	9
L.	60	60	10	Null	10

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Recommendations



McLaren Park
Lincoln Park
Seacliff
Twin peaks
Glen Park
Presidio Heights

Most Economical neighborhoods to buy / rent

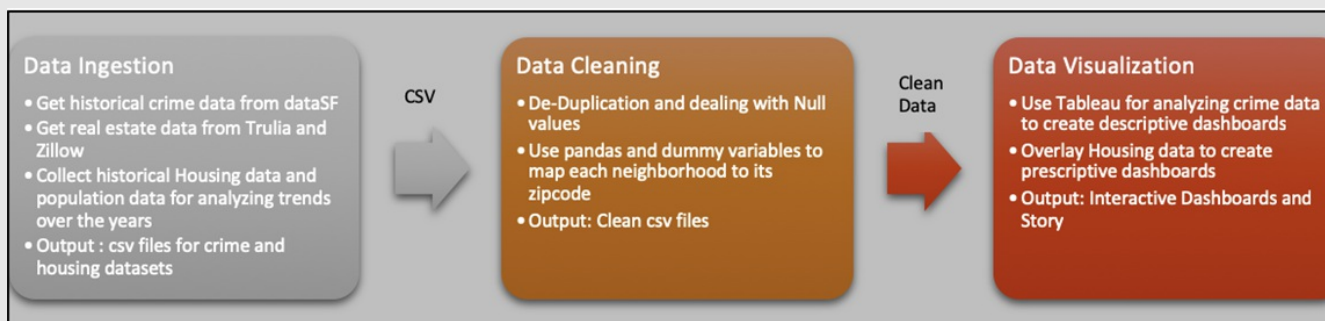
Tenderloin
Hayes Valley
SOMA
Bayview Hunters Point
Portola
McLaren Park

Most liveable neighborhoods

Chinatown
Financial District
West of Twin Peaks
Mission Bay

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Project Pipeline



Data Preparation:

- > The crime dataset which we got didn't have zipcode associated with each record rather had the names of neighborhood.
- > So while cleaning the dataset in python, we used pandas to map zipcode to each neighborhood using dummy variables.
- > And finally we joined crime dataset and housing dataset.

Data Sources:

- > We got the housing dataset from Trulia and Zillow.
Current Prices/Rent: https://www.trulia.com/real_estate/94134-San_Francisco/
Historical Data: <https://www.zillow.com/research/data/>
- > For crime dataset we took Incident Reports: 2018 to Present dataset and Historical Incident Reports from 2003 from data.sfgov.org.
<https://data.sfgov.org/Public-Safety/Police-Department-Incident-Reports-2018-to-Present/wg3w-h783>
<https://data.sfgov.org/Public-Safety/Police-Department-Incident-Reports-Historical-2003/tmnf-yvry>



Analysis of San Francisco's Housing and Crime Data

Team Vigilantes

Introduction

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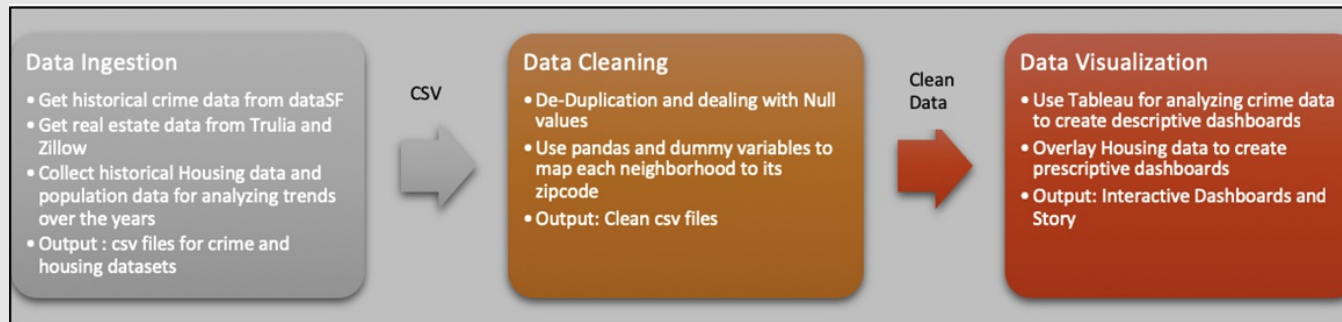
Goals:

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Data Sources:

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Historical Data: <https://www.zillow.com/research/data/>
- > For crime dataset we took Incident Reports: 2018 to Present dataset and Historical Incident Reports from 2003 from data.sfgov.org.
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<https://data.sfgov.org/Public-Safety/Police-Department-Incident-Reports-Historical-2003/tmnf-yvry>
- > For population data for each neighborhood, we got the data from:
<https://california.hometownlocator.com/zip-codes/>

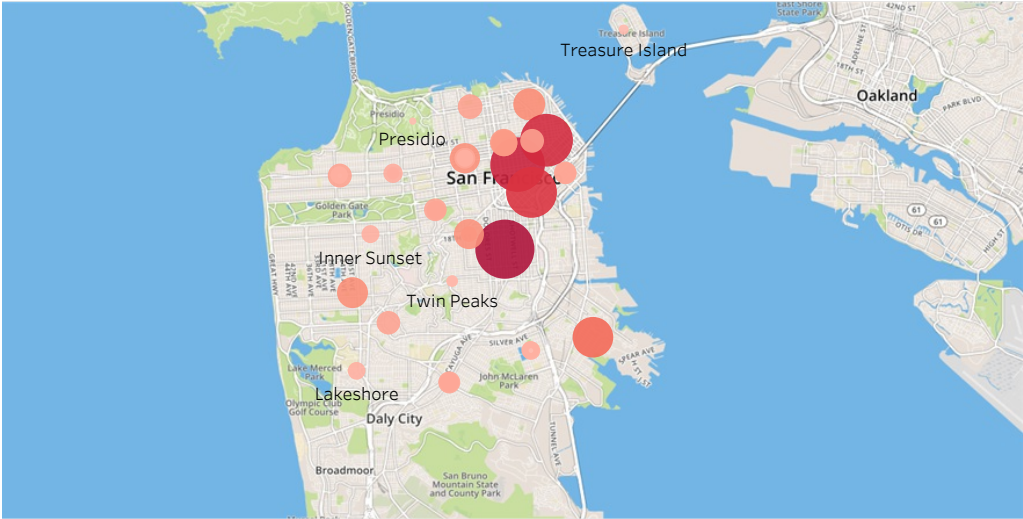
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Which area has maximum Crime Rate?



Incident Catego..	Incident Subcatego..	
Arson	Arson	297
	Aggravated Assault	2,715
Assault	Simple Assault	5,017
	Burglary	745
Burglary	Burglary - Commer..	688
	Burglary - Hot Prowl	2,540
Case Closure	Case Closure	2,020
	Burglary - Resident..	541
Civil Sidewalks	Other	439
Courtesy Report	Courtesy Report	329
Disorderly Conduct	Disorderly Conduct	282
	Drug Violation	13
	Drunkenness	232
	Intimidation	1,298
	Loitering	29
	Other	267
	Trespass	5
	Weapons Offense	6
Drug Violation	Drug Violation	3,469
Embezzlement	Embezzlement	141

No. of Incidents
97 14,922

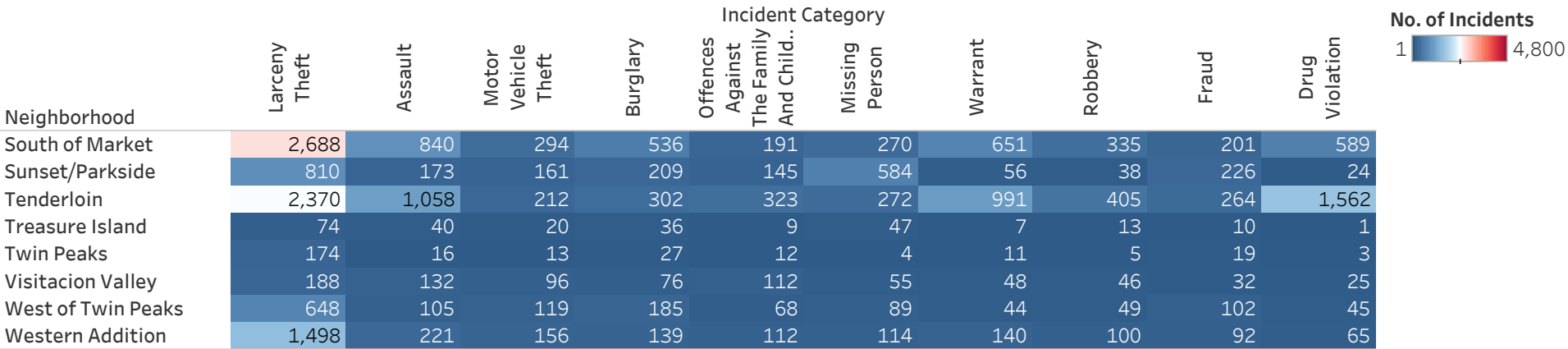
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Top 10 Crime Category by Neighborhood

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Presidio	84	13	5		3	5	8	4	15		
Presidio Heights	213	23	35	42	13	14	15	7	37	5	
Russian Hill	1,595	65	61	138	18	36	58	38	70	23	
Seacliff	50	4	10	9	6	2	2		3		

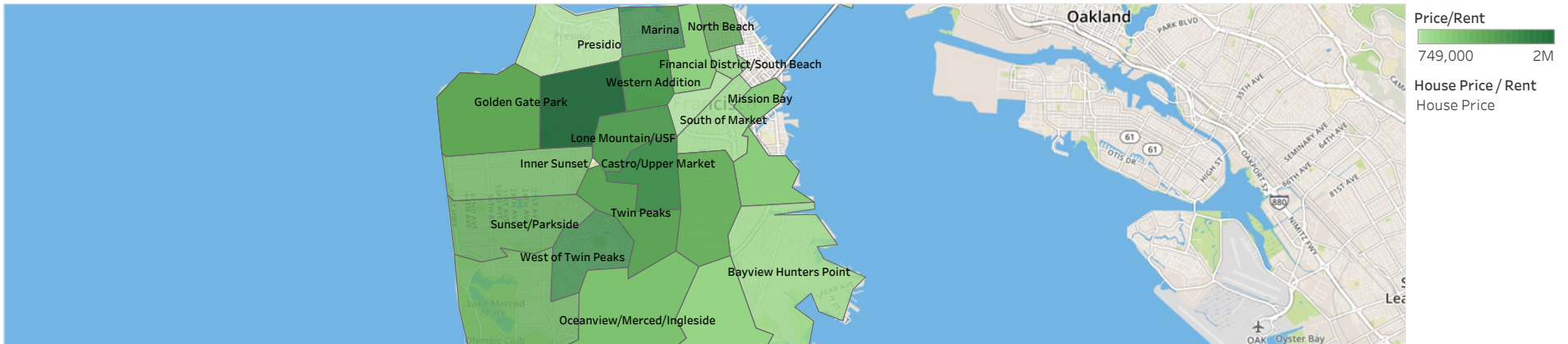
Count of Row ID broken down by Incident Category vs. Neighborhood. Color shows count of Row ID. The marks are labeled by count of Row ID. The view is filtered on Neighborhood and Incident Category. The Neighborhood filter excludes Null. The Incident Category filter keeps 10 of 44 members.

Top 10 Crime Category by Neighborhood



Count of Row ID broken down by Incident Category vs. Neighborhood. Color shows count of Row ID. The marks are labeled by count of Row ID. The view is filtered on Neighborhood and Incident Category. The Neighborhood filter excludes Null. The Incident Category filter keeps 10 of 44 members.

House Prices By Neighborhood



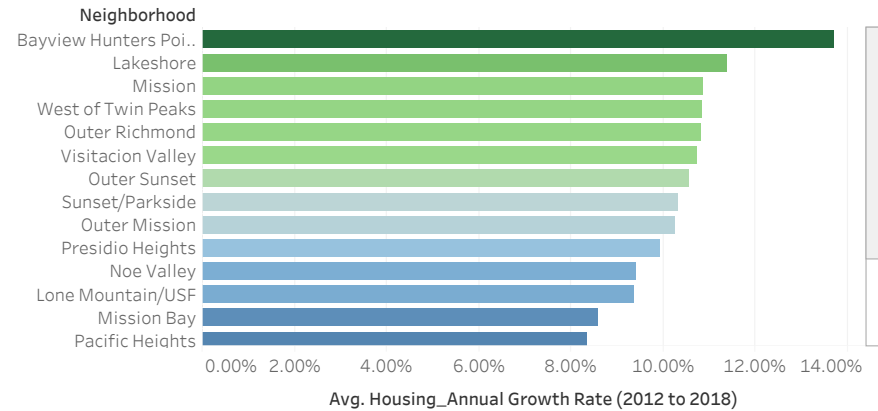
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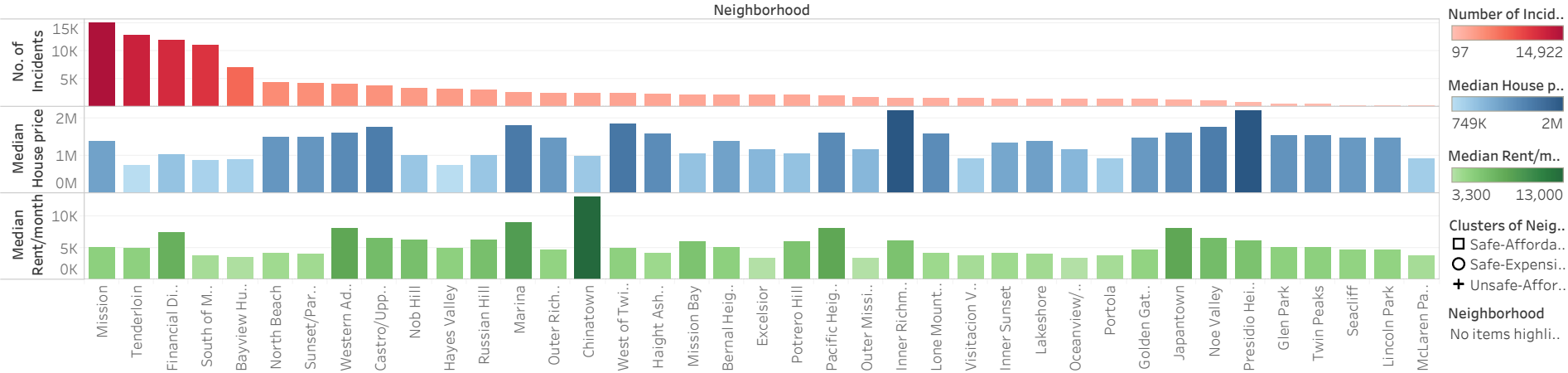
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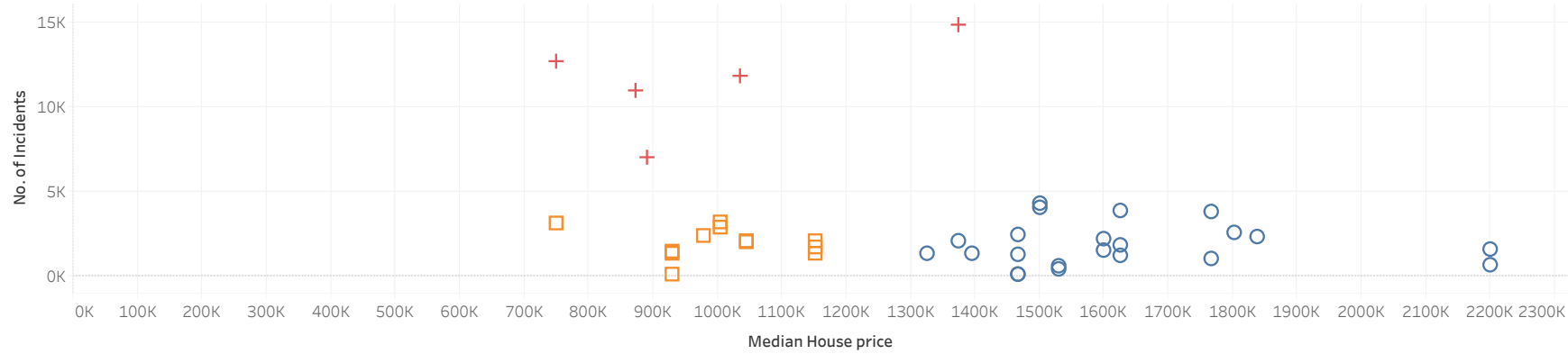
Change in Home Price



Relationship Between House Prices/Rent with Number of Incidents

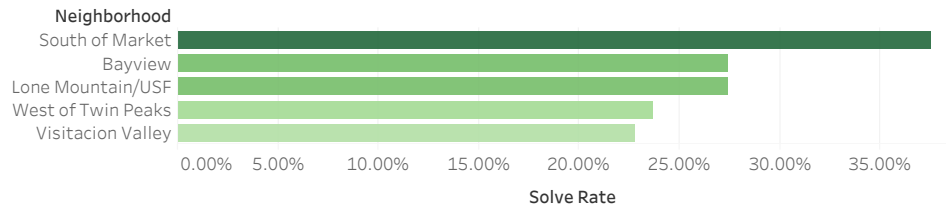


Clustering Neighborhoods

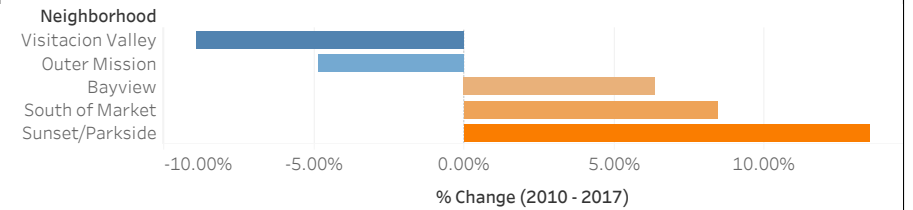


Solve Rate & Change in Crime

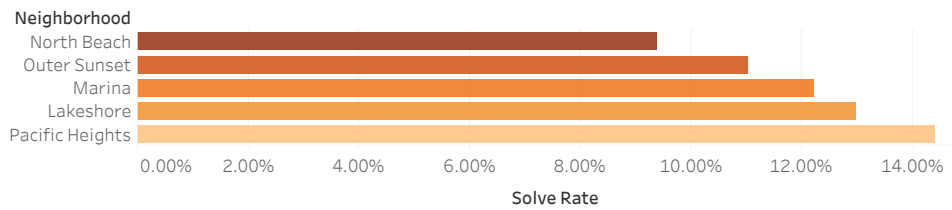
Solve Rate - Best Neighborhoods



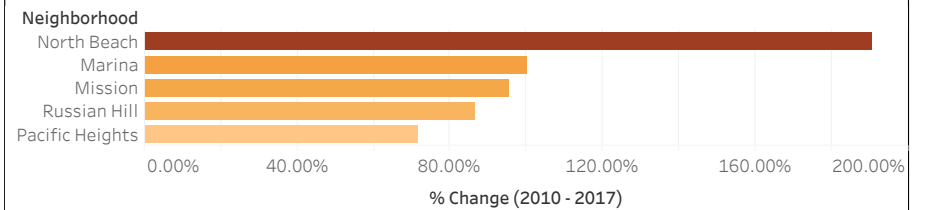
Change in Crime - Best Neighborhoods

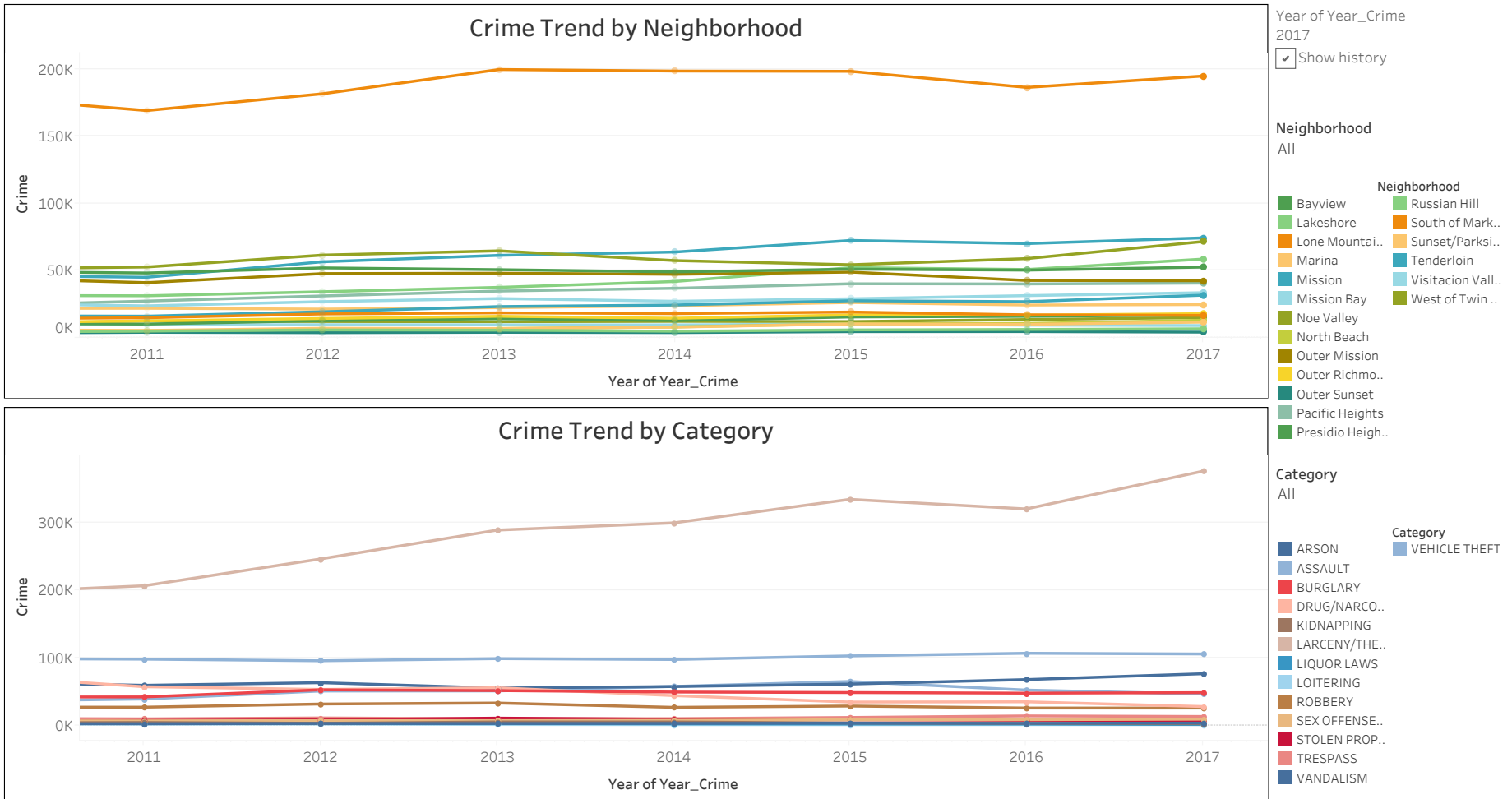


Solve Rate - Worst Neighborhoods

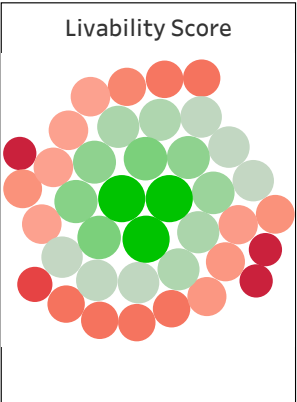
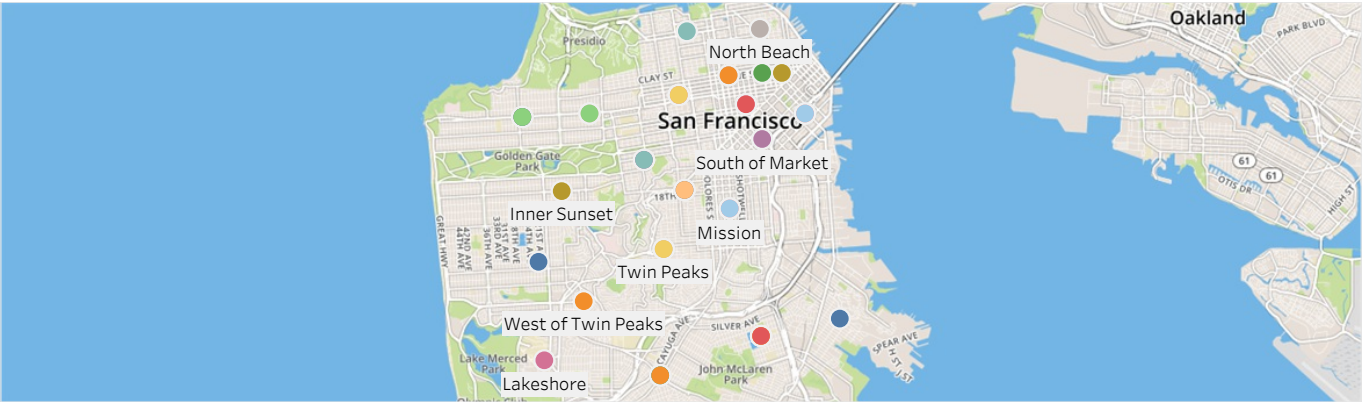


Change in Crime - Worst Neighborhoods





San Francisco Livability Info



Livability Score
49.740461132 to 100
and Null values

House price
749,000 to 2,200,000
and Null values

Rent Per Month
3,300 to 13,000
and Null values

High School Rating
All values

Middle School Rating
All values

Elementary School Rating
All values

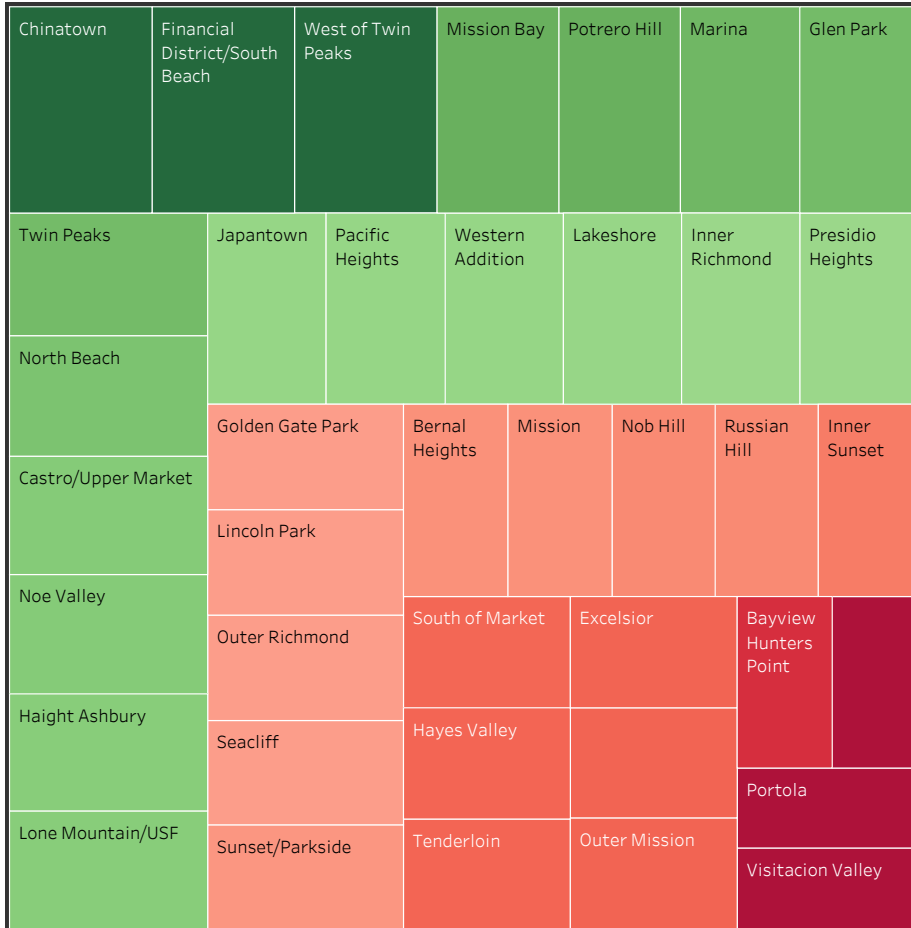
Neighborhood
Multiple values

Neighborhood
■ Bayview Hunters Point
■ Bernal Heights
■ Castro/Upper Market
■ Chinatown
■ Excelsior
■ Financial District/Sou...
■ Glen Park

Housing Info			
Neighborhood	House price	Price Per Sqft	Rent Per Month
Bayview Hunters Point	890,000	700	3,500
Bernal Heights	1,373,500	1,218	4,950
Castro/Upper Market	1,766,250	1,353	6,499
Chinatown	977,500	1,298	13,000
Excelsior	1,151,500	938	3,300
Financial District/South...	1,034,500	975	7,395
Glen Park	1,530,000	1,216	4,945
Golden Gate Park	1,466,000	982	4,680
Haight Ashbury	1,600,000	1,235	4,122
Hayes Valley	749,000	1,063	4,900
Inner Richmond	2,200,000	1,177	5,997
Inner Sunset	1,325,000	1,013	4,050
Japantown	1,625,000	1,197	8,100
Lakeshore	1,395,000	910	3,950
Lincoln Park	1,466,000	982	4,680
Lone Mountain/USF	1,600,000	1,235	4,122
Marina	1,802,500	1,432	8,995
McLaren Park	920,000	762	3,000

Neighborhood Info					
d	Walk Score	Transit Score	High School	Middle School	Elementary School
B. 84	70	10	7	6	
B. 97	85	10	9	9	
C. 96	90	10	6	9	
C. 97	100	10	Null	8	
E. 85	91	10	4	8	
F. 98	100	10	Null	9	
. 72	70	10	Null	9	
. 84	73	10	8	9	
. 93	84	10	Null	9	
. 92	100	10	Null	8	
I.. 92	79	10	8	9	
I.. 89	67	10	10	10	
J. 98	83	10	8	9	
L. 60	60	10	Null	10	
L. 84	73	10	8	9	
L. 93	84	10	Null	9	
. 90	76	10	9	9	
. 65	60	10	4	6	

Recommendations



Safest neighborhoods

McLaren Park
 Lincoln Park
 Seacliff
 Twin peaks
 Glen Park
 Presidio Heights

Most Economical neighborhoods to buy / rent

Tenderloin
 Hayes Valley
 SOMA
 Bayview Hunters Point
 Portola
 McLaren Park

Most liveable neighborhoods

Chinatown
 Financial District
 West of Twin Peaks
 Mission Bay
 Potrero Hill

The map displays the following neighborhoods and landmarks:

- Golden Gate Bridge
- Presidio
- Marina
- Treasure Island
- East Shore State Park
- Oakland
- Inner Richmond
- Golden Gate Park
- Inner Sunset
- South of Market
- Mission
- Twin Peaks
- West of Twin Peaks
- Lake Merced Park
- Lakeshore
- Olympic Club Golf Course
- Daly City
- Broadmoor
- San Bruno Mountain State and County Park
- Bayview Hunters Point
- John McLaren Park

Streets shown include: CLAY ST, 18TH ST, 21ST AVE, 24TH AVE, 28TH AVE, 31ST AVE, 33RD AVE, 36TH AVE, GATEWAY BLVD, CALIFORNIA AVE, SILVER AVE, TUNNEL AVE, ADLINE ST, 42ND ST, OTIS DR, and 61.

Map based on Longitude (generated) and Latitude (generated). Color shows count of Row ID. Size shows count of Row ID. The marks are labeled by Neighborhood. Details are shown for Zip. The data is filtered on Action (Time of Crime, Incident Day of Week) and Action (Incident Category, Incident Subcategory). The Action (Time of Crime, Incident Day of Week) filter keeps 84 members. The Action (Incident Category, Incident Subcategory) filter keeps 103 members. The view is filtered on Exclusions (Analysis Neighborhood, Zip), Latitude (generated) and Longitude (generated). The Exclusions (Analysis Neighborhood, Zip) filter keeps 40 members. The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

Day and Time Crime Heatmap



Count of Row ID broken down by Time of Crime vs. Incident Day of Week. Color shows count of Row ID. The marks are labeled by count of Row ID. The data is filtered on Incident Category, Action (Analysis Neighborhood,Zip), Action (Neighborhood,Zip) and Action (Incident Category,Incident Subcategory). The Incident Category filter keeps 44 of 44 members. The Action (Analysis Neighborhood,Zip) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The Action (Incident Category,Incident Subcategory) filter keeps 103 members.

Crime Categories

Incident Catego..	Incident Subcatego..	No. of Incidents
Arson	Arson	297
Assault	Aggravated Assault	2,715
	Simple Assault	5,017
Burglary	Burglary - Commer..	745
	Burglary - Hot Prowl	688
	Burglary - Other	2,540
	Burglary - Resident..	2,020
Case Closure	Case Closure	541
Civil Sidewalks	Other	439
Courtesy Report	Courtesy Report	329
Disorderly Conduct	Disorderly Conduct	282
	Drug Violation	13
	Drunkenness	232
	Intimidation	1,298
	Loitering	29
	Other	267
	Trespass	5
	Weapons Offense	6
Drug Violation	Drug Violation	3,469
Embezzlement	Embezzlement	141
Family Offense	Child Abuse	173
Fire Report	Fire Report	132
Forgery And Co..	Forgery And Count..	558
Fraud	Bad Checks	8
	Fraud	3,520
Gambling	Gambling	13
Homicide	Homicide	10
	Manslaughter	6

Count of Row ID broken down by Incident Category and Incident Subcategory. Color shows count of Row ID. The marks are labeled by count of Row ID. The data is filtered on Action (Time of Crime,Incident Day of Week), Incident Day of Week and Action (Neighborhood,Zip). The Action (Time of Crime,Incident Day of Week) filter keeps 84 members. The Incident Day of Week filter keeps multiple members. The Action (Neighborhood,Zip) filter keeps 42 members. The view is filtered on Incident Category, which keeps 44 of 44 members.

Crime Categories

Incident Catego..	Incident Subcatego..	No. of Incidents
Human Trafficki..	Human Trafficking,..	78
Juvenile Offenses	Family Offenses	6
	Other	24
	Runaway	203
Larceny Theft	Larceny - Auto Parts	68
	Larceny - From Vehi..	21,344
	Larceny Theft - Bicy..	531
	Larceny Theft - Fro..	2,510
	Larceny Theft - Oth..	8,188
	Larceny Theft - Pick..	656
	Larceny Theft - Pur..	23
	Larceny Theft - Sho..	2,274
	Theft From Vehicle	1,123
Liquor Laws	Liquor Law Violation	29
Lost Property	Lost Property	3,784
Malicious	Other	319
Mischief	Vandalism	6,855
Miscellaneous	Miscellaneous Inve..	1,084
Investigation	Other	3
Missing Person	Missing Adult	1,361
	Missing Juvenile	716
	Missing Person	1,716
Motor Vehicle Theft	Motor Vehicle Theft	4,306
	Motor Vehicle Thef..	35
Non-Criminal	Non-Criminal	4,372
	Other	3,793
Offences Against	Drug Violation	20
The Family And	Family Offenses	721

Count of Row ID broken down by Incident Category and Incident Subcategory. Color shows count of Row ID. The marks are labeled by count of Row ID. The data is filtered on Action (Time of Crime,Incident Day of Week), Incident Day of Week and Action (Neighborhood,Zip). The Action (Time of Crime,Incident Day of Week) filter keeps 84 members. The Incident Day of Week filter keeps multiple members. The Action (Neighborhood,Zip) filter keeps 42 members. The view is filtered on Incident Category, which keeps 44 of 44 members.

Crime Categories

Incident Catego..	Incident Subcatego..	No. of Incidents
Offences Against The Family And Children	Intimidation	3
	Kidnapping	8
	Loitering	3
	Other	2,029
	Stalking	33
Other	Arrest	1
	Bribery	2
	Disorderly Conduct	48
	Extortion-Blackmail	43
	Fraud	290
	Intimidation	148
	Kidnapping	128
	Larceny Theft - Oth..	1
	Liquor Law Violation	99
	Loitering	315
	Other	9,380
	Suspicious Occ	27
	Trespass	1,215
	Weapons Offense	12
Prostitution	Prostitution	343
Rape	Rape	24
	Rape - Attempted	17
Recovered Vehi..	Recovered Vehicle	2,709
Robbery	Robbery - Carjacking	81
	Robbery - Commerc..	731
	Robbery - Other	1,512
	Robbery - Resident..	8
	Robbery - Street	733

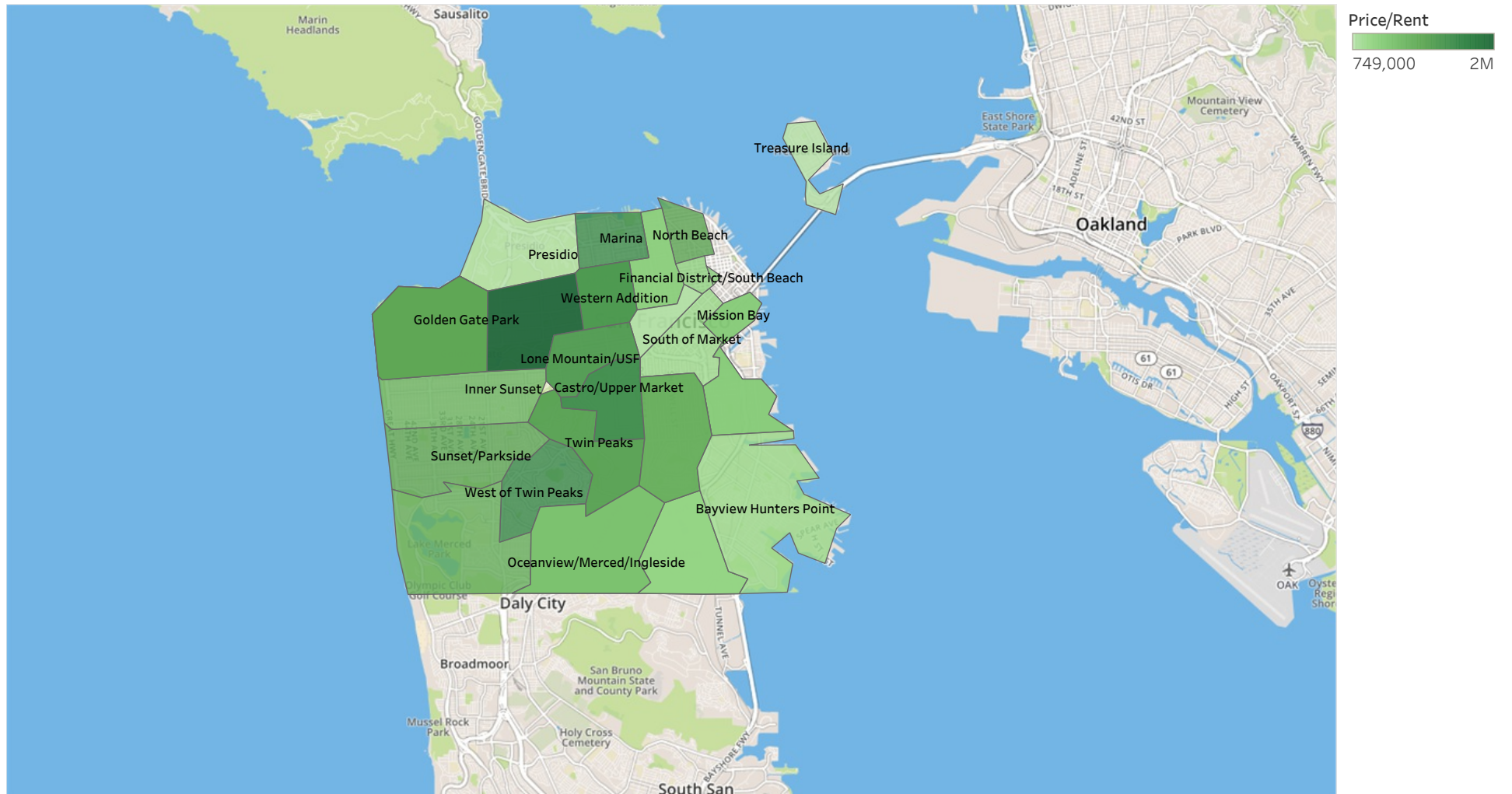
Count of Row ID broken down by Incident Category and Incident Subcategory. Color shows count of Row ID. The marks are labeled by count of Row ID. The data is filtered on Action (Time of Crime,Incident Day of Week), Incident Day of Week and Action (Neighborhood,Zip). The Action (Time of Crime,Incident Day of Week) filter keeps 84 members. The Incident Day of Week filter keeps multiple members. The Action (Neighborhood,Zip) filter keeps 42 members. The view is filtered on Incident Category, which keeps 44 of 44 members.

Crime Categories

Incident Catego..	Incident Subcatego..	No. of Incidents
Sex Offense	Child Abuse	156
	Prostitution	2
	Sex Offense	169
	Sex Offense, Child	19
Stolen Property	Stolen Property	671
Suicide	Suicide	47
Suspicious	Suspicious	2,279
	Suspicious Package	21
Traffic Collision	Traffic Collision	77
	Traffic Collision - Hi..	130
Traffic Violatio..	Traffic Violation Ar..	1,749
Vandalism	Vandalism	145
Vehicle Impoun..	Vehicle Impounded	71
Vehicle Misplac..	Vehicle Misplaced	57
Warrant	Other	2,515
	Warrant	2,200
Weapons Carryi..	Weapons Offense	727
Weapons Offen..	Weapons Offense	642
Total Crimes		123,266

Count of Row ID broken down by Incident Category and Incident Subcategory. Color shows count of Row ID. The marks are labeled by count of Row ID. The data is filtered on Action (Time of Crime,Incident Day of Week), Incident Day of Week and Action (Neighborhood,Zip). The Action (Time of Crime,Incident Day of Week) filter keeps 84 members. The Incident Day of Week filter keeps multiple members. The Action (Neighborhood,Zip) filter keeps 42 members. The view is filtered on Incident Category, which keeps 44 of 44 members.

HousingMap



Map based on Longitude (generated) and Latitude (generated). Color shows Select Parameters. The marks are labeled by Neighborhood. Details are shown for Zipcode1. The data is filtered on Action (Neighborhood), which keeps 42 members. The view is filtered on Latitude (generated) and Longitude (generated). The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

Commute Statistics

Neighborhood	Walk Score	Bike Score	Transit Score
Bayview Hunters Po..	84	70	70
Bernal Heights	97	99	85
Castro/Upper Market	96	60	90
Chinatown	97	64	100
Excelsior	85	65	91
Financial District/So..	98	88	100
Glen Park	72	50	70
Golden Gate Park	84	58	73
Haight Ashbury	93	73	84
Hayes Valley	92	97	100
Inner Richmond	92	84	79
Inner Sunset	89	79	67
Japantown	98	90	83
Lakeshore	60	70	60
Lincoln Park	84	58	73
Lone Mountain/USF	93	73	84
Marina	90	85	76
McLaren Park	65	60	60
Mission	97	99	85
Mission Bay	92	78	88
Nob Hill	92	83	95
Noe Valley	96	60	90
North Beach	99	64	100
Oceanview/Merced/l..	85	65	91
Outer Mission	85	65	91
Outer Richmond	84	58	73
Pacific Heights	98	90	83
Portola	65	60	60
Potrero Hill	92	78	88
Presidio	N/A	N/A	N/A
Presidio Heights	92	84	79
Russian Hill	92	83	95
Seacliff	84	58	73
South of Market	96	96	100
Sunset/Parkside	87	58	68

Walk Score, Bike Score and Transit Score broken down by Neighborhood. The data is filtered on Action (Neighborhood,Zipcode1) and Action (Neighborhood). The Action (Neighborhood,Zipcode1) filter keeps 42 members. The Action (Neighborhood) filter keeps 42 members.

Commute Statistics

Neighborhood	Walk Score	Bike Score	Transit Score
Tenderloin	92	97	100
Treasure Island	N/A	N/A	N/A
Twin Peaks	72	50	70
Visitacion Valley	65	60	60
West of Twin Peaks	60	50	75
Western Addition	98	90	83

Walk Score, Bike Score and Transit Score broken down by Neighborhood. The data is filtered on Action (Neighborhood,Zipcode1) and Action (Neighborhood). The Action (Neighborhood,Zipcode1) filter keeps 42 members. The Action (Neighborhood) filter keeps 42 members.

School Statistics

Neighborhood	Elementary Sch..	Middle School	High School
Bayview Hunters Po..	6	7	10
Bernal Heights	9	9	10
Castro/Upper Market	9	6	10
Chinatown	8	N/A	10
Excelsior	8	4	10
Financial District/So..	9	N/A	10
Glen Park	9	N/A	10
Golden Gate Park	9	8	10
Haight Ashbury	9	N/A	10
Hayes Valley	8	N/A	10
Inner Richmond	9	8	10
Inner Sunset	10	10	10
Japantown	9	8	10
Lakeshore	10	N/A	10
Lincoln Park	9	8	10
Lone Mountain/USF	9	N/A	10
Marina	9	9	10
McLaren Park	6	4	10
Mission	9	9	10
Mission Bay	5	N/A	10
Nob Hill	8	N/A	10
Noe Valley	9	6	10
North Beach	9	6	10
Oceanview/Merced/I..	8	4	10
Outer Mission	8	4	10
Outer Richmond	9	8	10
Pacific Heights	9	8	10
Portola	6	4	10
Potrero Hill	5	N/A	10
Presidio	N/A	N/A	N/A
Presidio Heights	9	8	10
Russian Hill	8	N/A	10
Seacliff	9	8	10
South of Market	5	4	10
Sunset/Parkside	10	8	10

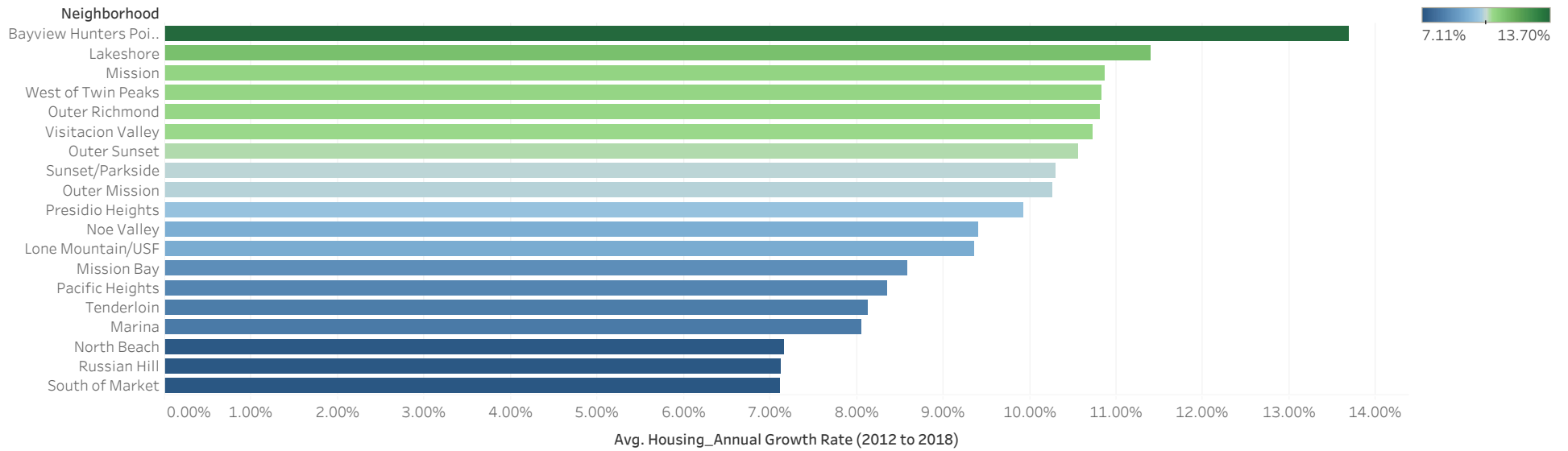
Elementary School, Middle School and High School broken down by Neighborhood. The data is filtered on Action (Neighborhood,Zipcode1) and Action (Neighborhood). The Action (Neighborhood,Zipcode1) filter keeps 42 members. The Action (Neighborhood) filter keeps 42 members.

School Statistics

Neighborhood	Elementary Sch..	Middle School	High School
Tenderloin	8	N/A	10
Treasure Island	N/A	N/A	N/A
Twin Peaks	9	N/A	10
Visitation Valley	6	4	10
West of Twin Peaks	8	7	10
Western Addition	9	8	10

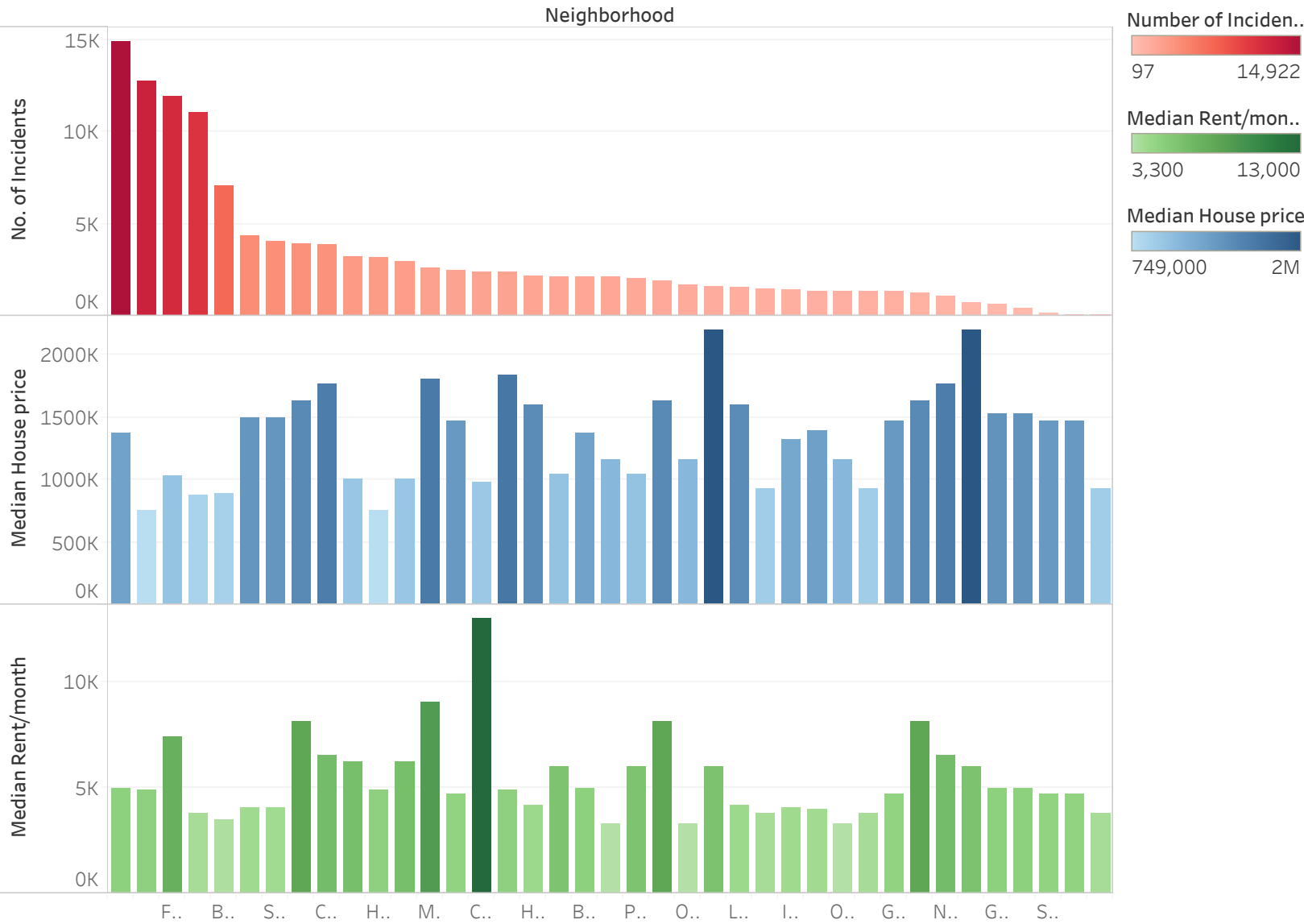
Elementary School, Middle School and High School broken down by Neighborhood. The data is filtered on Action (Neighborhood,Zipcode1) and Action (Neighborhood). The Action (Neighborhood,Zipcode1) filter keeps 42 members. The Action (Neighborhood) filter keeps 42 members.

Change in Home Price



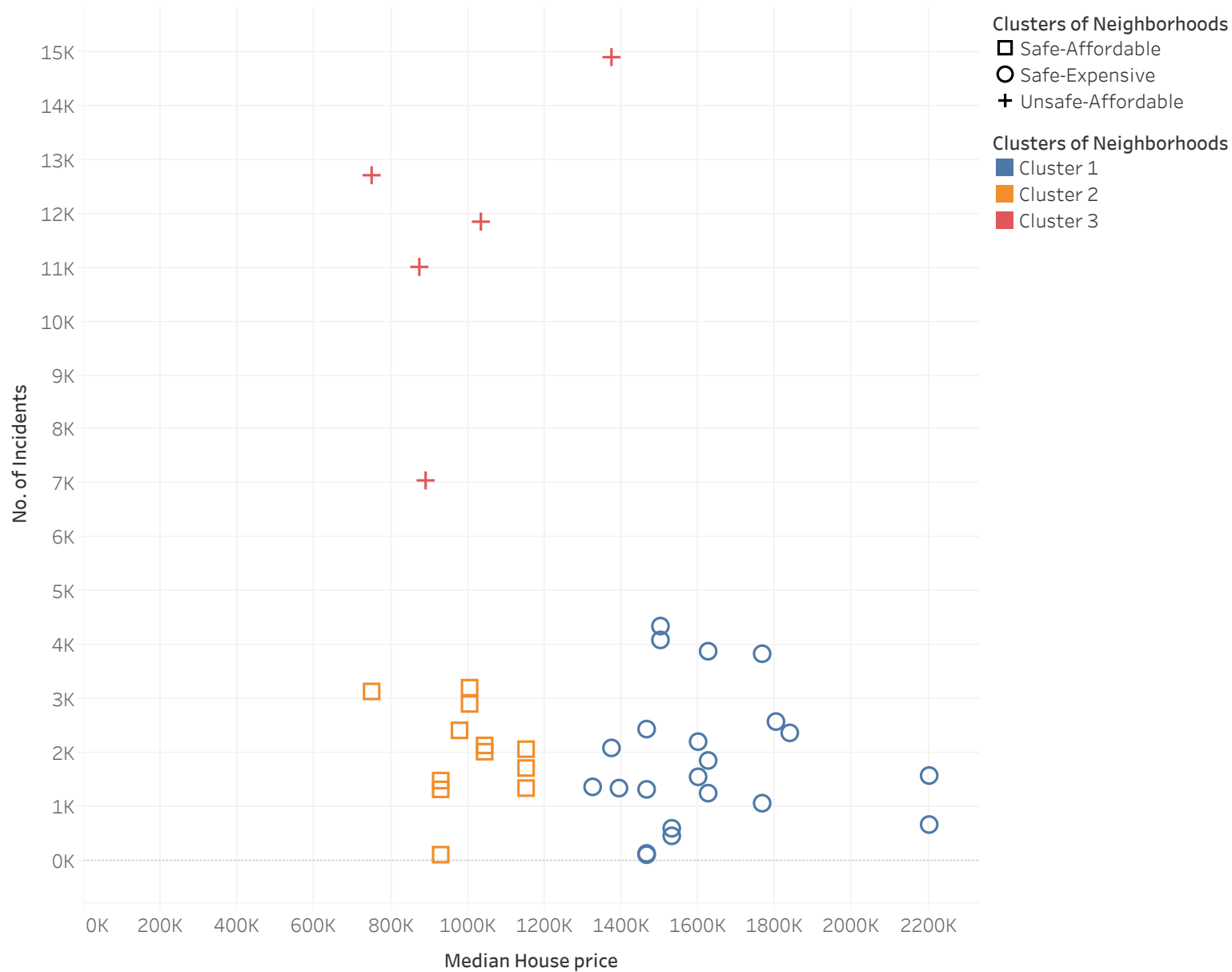
Average of Housing_Annual Growth Rate (2012 to 2018) for each Neighborhood. Color shows average of Housing_Annual Growth Rate (2012 to 2018). The data is filtered on Action (Neighborhood), which keeps 19 members.

Comparison of Crime and House Prices/Rents in each Neighborhood



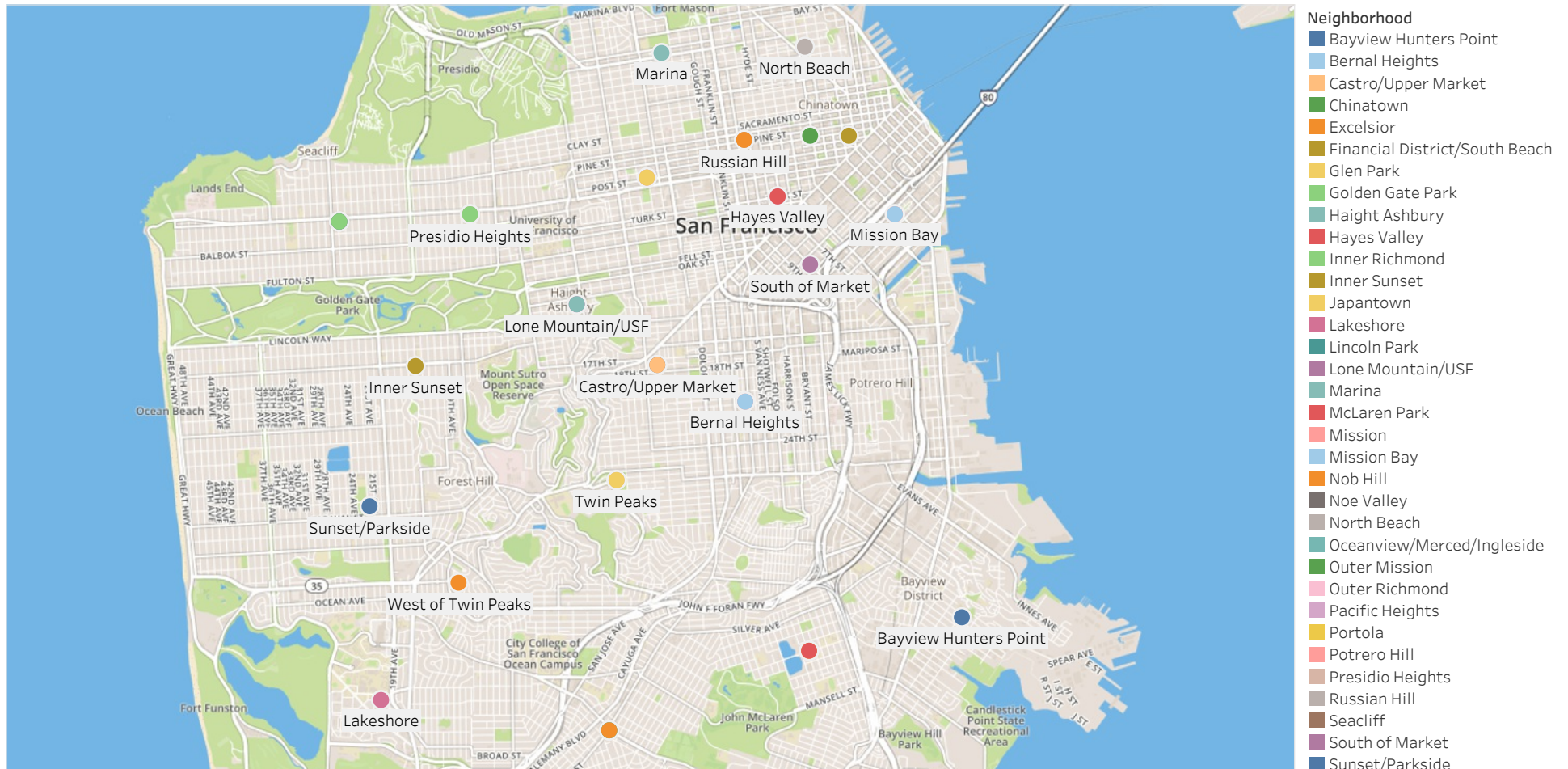
Count of Row ID, average of Median House price and average of Median Rent/month for each Neighborhood. For pane Count of Row ID: Color shows count of Row ID. For pane Average of Median House price: Color shows average of Median House price. For pane Average of Median Rent/month: Color shows average of Median Rent/month. The view is filtered on Neighborhood and average of Median House price. The Neighborhood filter excludes no members. The average of Median House price filter keeps non-Null values only.

Clustering Neighborhoods



Median House price as an attribute vs. count of Row ID. Color shows details about Clusters (10). Shape shows details about Clusters of Neighborhoods. Details are shown for Neighborhood. The view is filtered on Neighborhood and Median House price as an attribute. The Neighborhood filter keeps 42 of 42 members. The Median House price as an attribute filter keeps non-Null values only.

San Francisco Safe Housing Livability Score



Map based on Longitude (generated) and Latitude (generated). Color shows details about Neighborhood. The marks are labeled by Neighborhood. Details are shown for Zip and Zip. The data is filtered on sum of House price, which keeps non-Null values only. The view is filtered on Latitude (generated), Longitude (generated), Neighborhood, average of Livability Score, average of House price, average of Rent Per Month, average of High School, average of Middle School and average of Elementary School. The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only. The Neighborhood filter excludes Null. The average of Livability Score filter ranges from 49.74 to 100.00 and keeps Null values. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values.

Housing Info

Neighborhood	House price	Price Per Sqft	Rent Per Month	
Bayview Hunters Point	890,000	700	3,500	Abc
Bernal Heights	1,373,500	1,218	4,950	Abc
Castro/Upper Market	1,766,250	1,353	6,499	Abc
Chinatown	977,500	1,298	13,000	Abc
Excelsior	1,151,500	938	3,300	Abc
Financial District/South..	1,034,500	975	7,395	Abc
Glen Park	1,530,000	1,216	4,945	Abc
Golden Gate Park	1,466,000	982	4,680	Abc
Haight Ashbury	1,600,000	1,235	4,122	Abc
Hayes Valley	749,000	1,063	4,900	Abc
Inner Richmond	2,200,000	1,177	5,997	Abc
Inner Sunset	1,325,000	1,013	4,050	Abc
Japantown	1,625,000	1,197	8,100	Abc
Lakeshore	1,395,000	910	3,950	Abc
Lincoln Park	1,466,000	982	4,680	Abc
Lone Mountain/USF	1,600,000	1,235	4,122	Abc
Marina	1,802,500	1,432	8,995	Abc
McLaren Park	930,000	763	3,800	Abc
Mission	1,373,500	1,218	4,950	Abc
Mission Bay	1,045,000	1,096	5,950	Abc
Nob Hill	1,004,000	1,181	6,225	Abc
Noe Valley	1,766,250	1,353	6,499	Abc
North Beach	1,500,000	1,307	4,037	Abc
Oceanview/Merced/Ingl..	1,151,500	938	3,300	Abc
Outer Mission	1,151,500	938	3,300	Abc
Outer Richmond	1,466,000	982	4,680	Abc
Pacific Heights	1,625,000	1,197	8,100	Abc
Portola	930,000	763	3,800	Abc
Potrero Hill	1,045,000	1,096	5,950	Abc

The view is broken down by Neighborhood, House price, Price Per Sqft and Rent Per Month. The data is filtered on Action (Neighborhood,Elementary,High,Middle), Action (Neighborhood,Zip), average of Livability Score, average of House price, average of Rent Per Month, average of High School, average of Middle School, average of Elementary School, Action (Neighborhood) and sum of House price. The Action (Neighborhood,Elementary,High,Middle) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The average of Livability Score filter ranges from 50 to 100 and keeps Null values. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The Action (Neighborhood) filter keeps 42 members. The sum of House price filter keeps non-Null values only. The view is filtered on Neighborhood, which excludes Null.

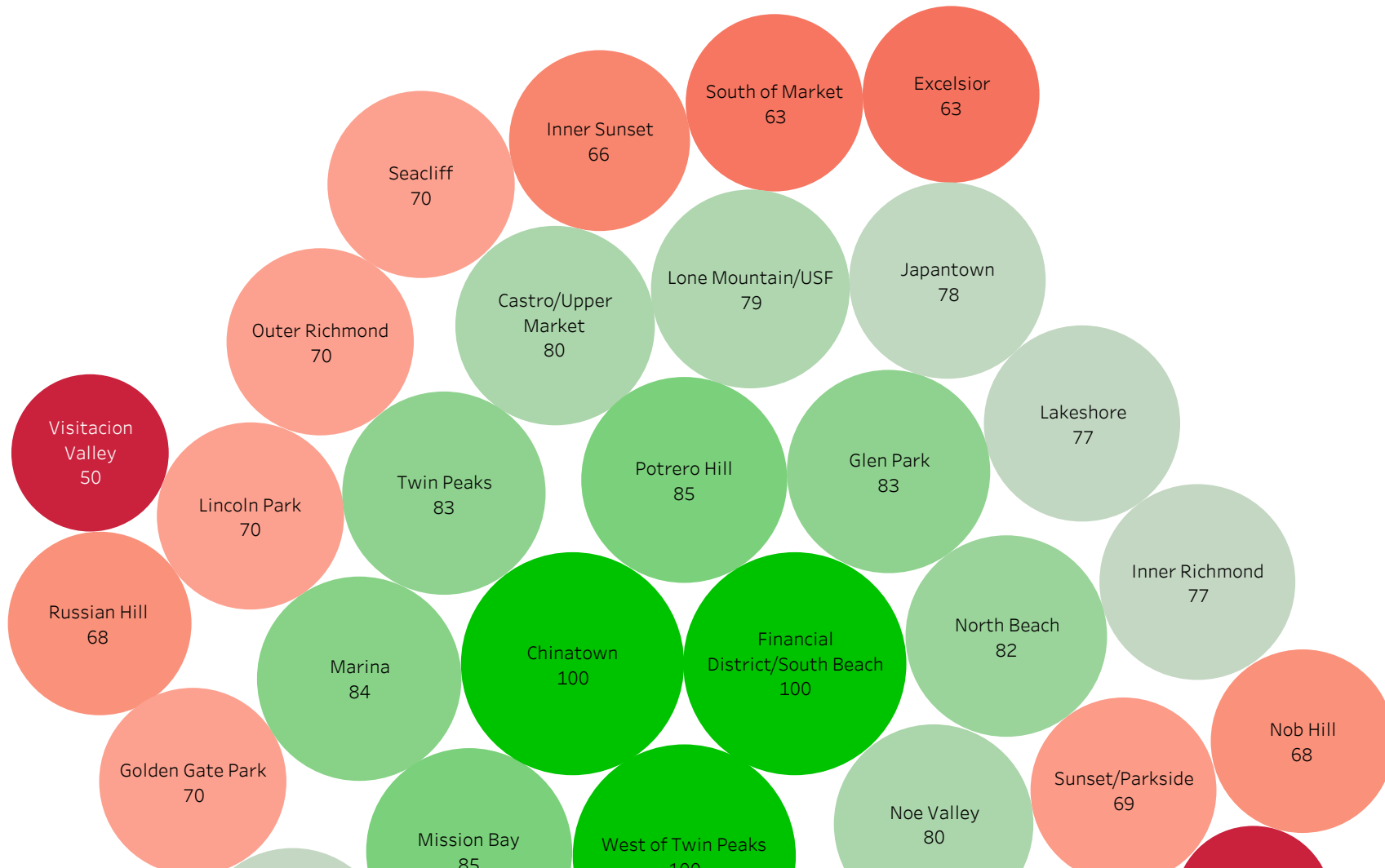
Housing Info

Neighborhood	House price	Price Per Sqft	Rent Per Month	
Presidio Heights	2,200,000	1,177	5,997	Abc
Russian Hill	1,004,000	1,181	6,225	Abc
Seacliff	1,466,000	982	4,680	Abc
South of Market	872,500	1,105	3,795	Abc
Sunset/Parkside	1,500,000	980	3,998	Abc
Tenderloin	749,000	1,063	4,900	Abc
Twin Peaks	1,530,000	1,216	4,945	Abc
Visitacion Valley	930,000	763	3,800	Abc
West of Twin Peaks	1,837,500	998	4,895	Abc
Western Addition	1,625,000	1,197	8,100	Abc

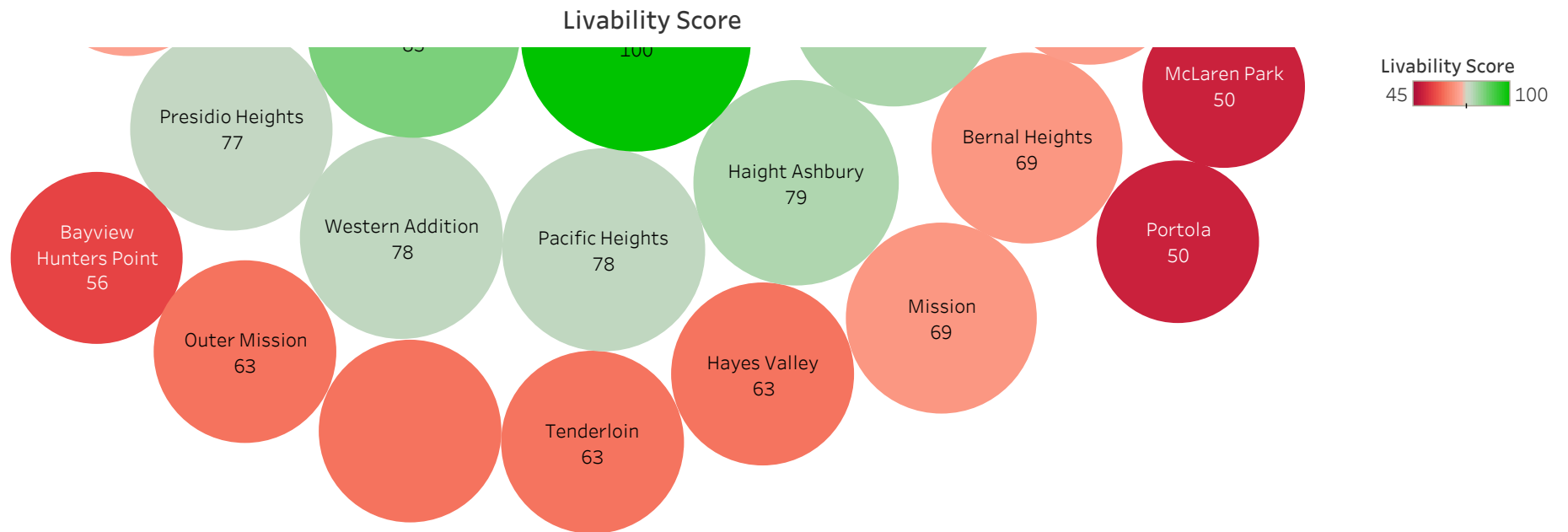
The view is broken down by Neighborhood, House price, Price Per Sqft and Rent Per Month. The data is filtered on Action (Neighborhood,Elementary,High,Middle), Action (Neighborhood,Zip), average of Livability Score, average of House price, average of Rent Per Month, average of High School, average of Middle School, average of Elementary School, Action (Neighborhood) and sum of House price. The Action (Neighborhood,Elementary,High,Middle) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The average of Livability Score filter ranges from 50 to 100 and keeps Null values. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The Action (Neighborhood) filter keeps 42 members. The sum of House price filter keeps non-Null values only. The view is filtered on Neighborhood, which excludes Null.

Livability Score

Livability Score
45  100



Neighborhood and average of Livability Score. Color shows average of Livability Score. Size shows average of Livability Score. The marks are labeled by Neighborhood and average of Livability Score. The data is filtered on Action (Neighborhood,Elementary,High,Middle), Action (Neighborhood,Zip), average of House price, average of Rent Per Month, average of High School, average of Middle School, average of Elementary School and sum of House price. The Action (Neighborhood,Elementary,High,Middle) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The sum of House price filter keeps non-Null values only. The view is filtered on Neighborhood and average of Livability Score. The Neighborhood filter excludes Null. The average of Livability Score filter ranges from 50 to 100 and keeps Null values.



Neighborhood and average of Livability Score. Color shows average of Livability Score. Size shows average of Livability Score. The marks are labeled by Neighborhood and average of Livability Score. The data is filtered on Action (Neighborhood,Elementary,High,Middle), Action (Neighborhood,Zip), average of House price, average of Rent Per Month, average of High School, average of Middle School, average of Elementary School and sum of House price. The Action (Neighborhood,Elementary,High,Middle) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The sum of House price filter keeps non-Null values only. The view is filtered on Neighborhood and average of Livability Score. The Neighborhood filter excludes Null. The average of Livability Score filter ranges from 50 to 100 and keeps Null values.

Neighborhood Info

d	Walk Score	Transit Score	High School	Middle School	Elementary School	
B. 84	70	10	7	6		Abc
B. 97	85	10	9	9		Abc
C. 96	90	10	6	9		Abc
C. 97	100	10	Null	8		Abc
E. 85	91	10	4	8		Abc
F. 98	100	10	Null	9		Abc
. 72	70	10	Null	9		Abc
. 84	73	10	8	9		Abc
. 93	84	10	Null	9		Abc
. 92	100	10	Null	8		Abc
I.. 92	79	10	8	9		Abc
I.. 89	67	10	10	10		Abc
J. 98	83	10	8	9		Abc
L. 60	60	10	Null	10		Abc
L. 84	73	10	8	9		Abc
L. 93	84	10	Null	9		Abc
. 90	76	10	9	9		Abc
. 65	60	10	4	6		Abc
. 97	85	10	9	9		Abc
. 92	88	10	Null	5		Abc
. 92	95	10	Null	8		Abc
. 96	90	10	6	9		Abc
. 99	100	10	6	9		Abc
. 85	91	10	4	8		Abc
. 85	91	10	4	8		Abc
. 84	73	10	8	9		Abc
P. 98	83	10	8	9		Abc
P. 65	60	10	4	6		Abc
P. 92	88	10	Null	5		Abc
P. 92	79	10	8	9		Abc
R. 92	95	10	Null	8		Abc
S. 84	73	10	8	9		Abc

The view is broken down by Neighborhood, Walk Score, Transit Score, High School, Middle School and Elementary School. The data is filtered on sum of House price, Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score), Action (Neighborhood,Zip), Action (Neighborhood), average of House price, average of Livability Score, average of Rent Per Month, average of High School, average of Middle School and average of Elementary School. The sum of House price filter keeps non-Null values only. The Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The Action (Neighborhood) filter keeps 42 members. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Livability Score filter ranges from 49.740461132 to 100 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The view is filtered on Neighborhood, which excludes Null.

Neighborhood Info

d	Walk Score	Transit Score	High School	Middle School	Elementary School	
S.	96	100	10	4	5	Abc
S.	87	68	10	8	10	Abc
T.	92	100	10	Null	8	Abc
T.	72	70	10	Null	9	Abc
V.	65	60	10	4	6	Abc
.	60	75	10	7	8	Abc
.	98	83	10	8	9	Abc

The view is broken down by Neighborhood, Walk Score, Transit Score, High School, Middle School and Elementary School. The data is filtered on sum of House price, Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score), Action (Neighborhood,Zip), Action (Neighborhood), average of House price, average of Livability Score, average of Rent Per Month, average of High School, average of Middle School and average of Elementary School. The sum of House price filter keeps non-Null values only. The Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The Action (Neighborhood) filter keeps 42 members. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Livability Score filter ranges from 49.740461132 to 100 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The view is filtered on Neighborhood, which excludes Null.

School Rating

Neighborhood	School	School	Elementary School	
Bayview Hunters Point	10	7	6	Abc
Bernal Heights	10	9	9	Abc
Castro/Upper Market	10	6	9	Abc
Chinatown	10	Null	8	Abc
Excelsior	10	4	8	Abc
Financial District/Sou..	10	Null	9	Abc
Glen Park	10	Null	9	Abc
Golden Gate Park	10	8	9	Abc
Haight Ashbury	10	Null	9	Abc
Hayes Valley	10	Null	8	Abc
Inner Richmond	10	8	9	Abc
Inner Sunset	10	10	10	Abc
Japantown	10	8	9	Abc
Lakeshore	10	Null	10	Abc
Lincoln Park	10	8	9	Abc
Lone Mountain/USF	10	Null	9	Abc
Marina	10	9	9	Abc
McLaren Park	10	4	6	Abc
Mission	10	9	9	Abc
Mission Bay	10	Null	5	Abc
Nob Hill	10	Null	8	Abc
Noe Valley	10	6	9	Abc
North Beach	10	6	9	Abc
Oceanview/Merced/In..	10	4	8	Abc
Outer Mission	10	4	8	Abc
Outer Richmond	10	8	9	Abc
Pacific Heights	10	8	9	Abc
Portola	10	4	6	Abc
Potrero Hill	10	Null	5	Abc
Presidio Heights	10	8	9	Abc
Russian Hill	10	Null	8	Abc

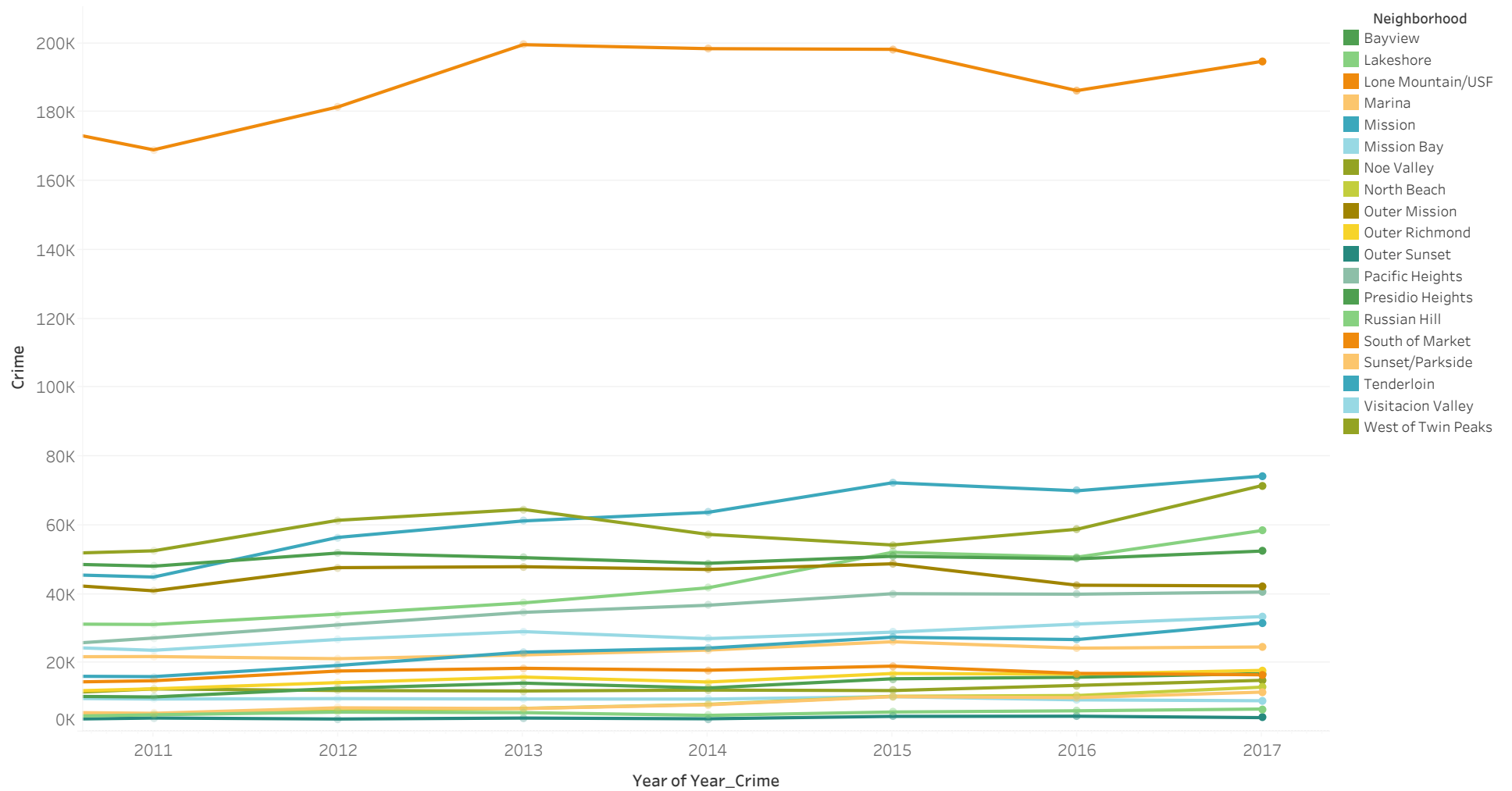
The view is broken down by Neighborhood, High School, Middle School and Elementary School. The data is filtered on sum of House price, Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score), Action (Neighborhood,Zip), average of House price, average of Livability Score, average of Rent Per Month, average of High School, average of Middle School and average of Elementary School. The sum of House price filter keeps non-Null values only. The Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Livability Score filter ranges from 49.740461132 to 100 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The view is filtered on Neighborhood, which excludes Null.

School Rating

Neighborhood	School	School	Elementary School	
Seacliff	10	8	9	Abc
South of Market	10	4	5	Abc
Sunset/Parkside	10	8	10	Abc
Tenderloin	10	Null	8	Abc
Twin Peaks	10	Null	9	Abc
Visitacion Valley	10	4	6	Abc
West of Twin Peaks	10	7	8	Abc
Western Addition	10	8	9	Abc

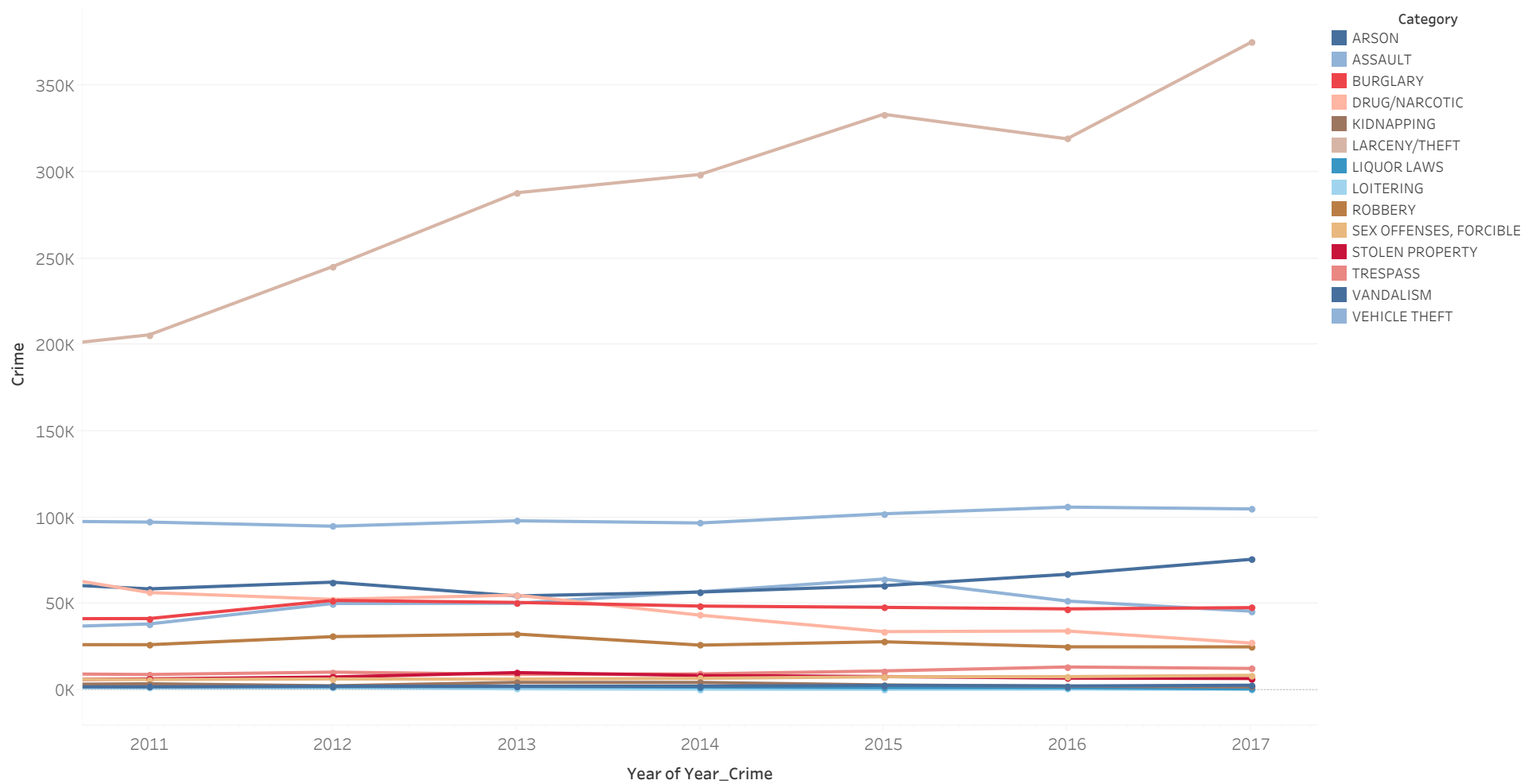
The view is broken down by Neighborhood, High School, Middle School and Elementary School. The data is filtered on sum of House price, Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score), Action (Neighborhood,Zip), average of House price, average of Livability Score, average of Rent Per Month, average of High School, average of Middle School and average of Elementary School. The sum of House price filter keeps non-Null values only. The Action (Price/Sqft,Neighborhood,House price,Rent/Month,Transit Score,Walk Score) filter keeps 42 members. The Action (Neighborhood,Zip) filter keeps 42 members. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Livability Score filter ranges from 49.740461132 to 100 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The view is filtered on Neighborhood, which excludes Null.

Crime Trend by Neighborhood



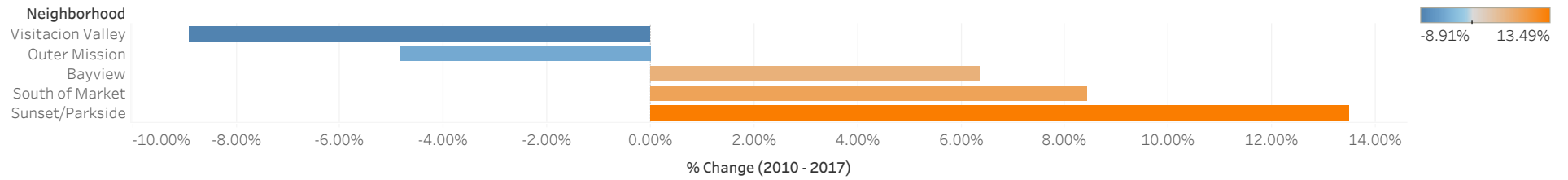
The plot of sum of Crime for Year_Crime Year. Color shows details about Neighborhood. The data is filtered on Category, which keeps multiple members. The view is filtered on Neighborhood, which keeps multiple members.

Crime Trend by Category



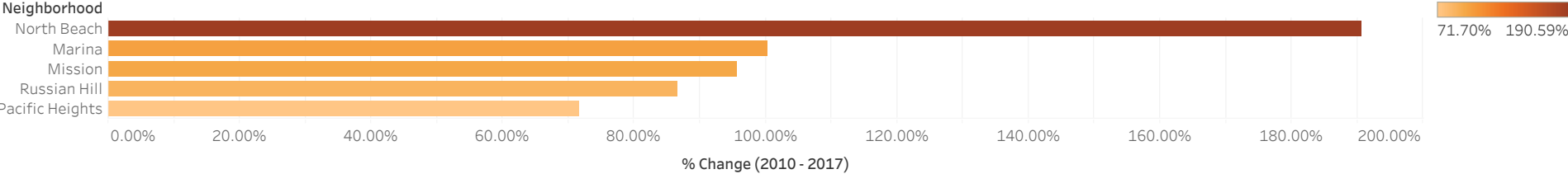
The plot of sum of Crime for Year_Crime Year. Color shows details about Category. The data is filtered on Action (Neighborhood, YEAR(Year_Crime)) and Neighborhood. The Action (Neighborhood, YEAR(Year_Crime)) filter keeps 152 members. The Neighborhood filter keeps multiple members. The view is filtered on Category, which keeps multiple members.

Change in Crime - Best Neighborhoods



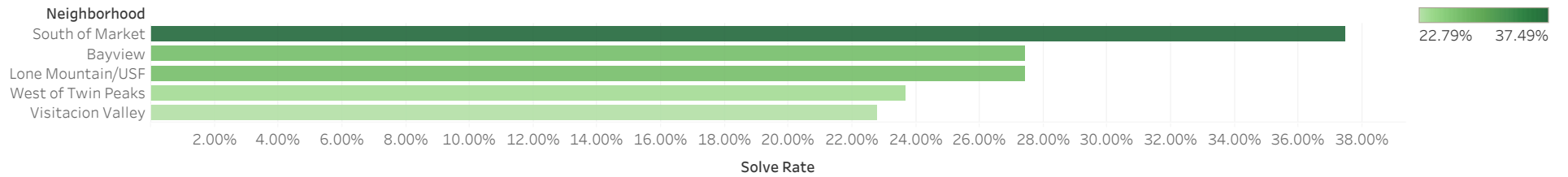
% Change (2010 - 2017) as an attribute for each Neighborhood. Color shows % Change (2010 - 2017) as an attribute. The data is filtered on Action (Neighborhood, YEAR(Year_Crime)), which keeps 152 members. The view is filtered on % Change (2010 - 2017) as an attribute, which ranges from -8.91% to 15.00%.

Change in Crime - Worst Neighborhoods



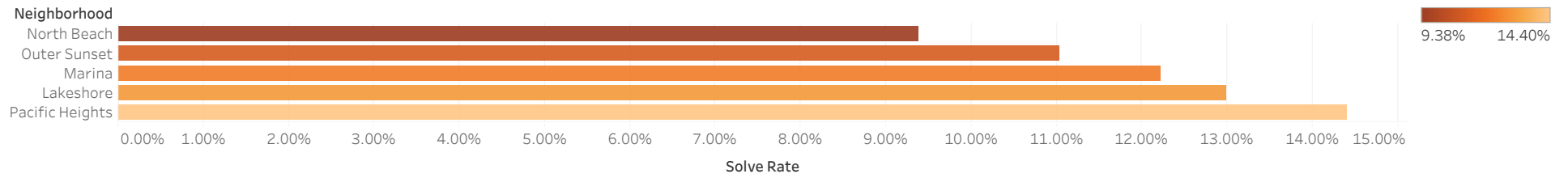
% Change (2010 - 2017) as an attribute for each Neighborhood. Color shows % Change (2010 - 2017) as an attribute. The data is filtered on Action (Neighborhood, YEAR(Year_Crime)), which keeps 152 members. The view is filtered on % Change (2010 - 2017) as an attribute, which ranges from 70.00% to 190.59%.

Solve Rate - Best Neighborhoods

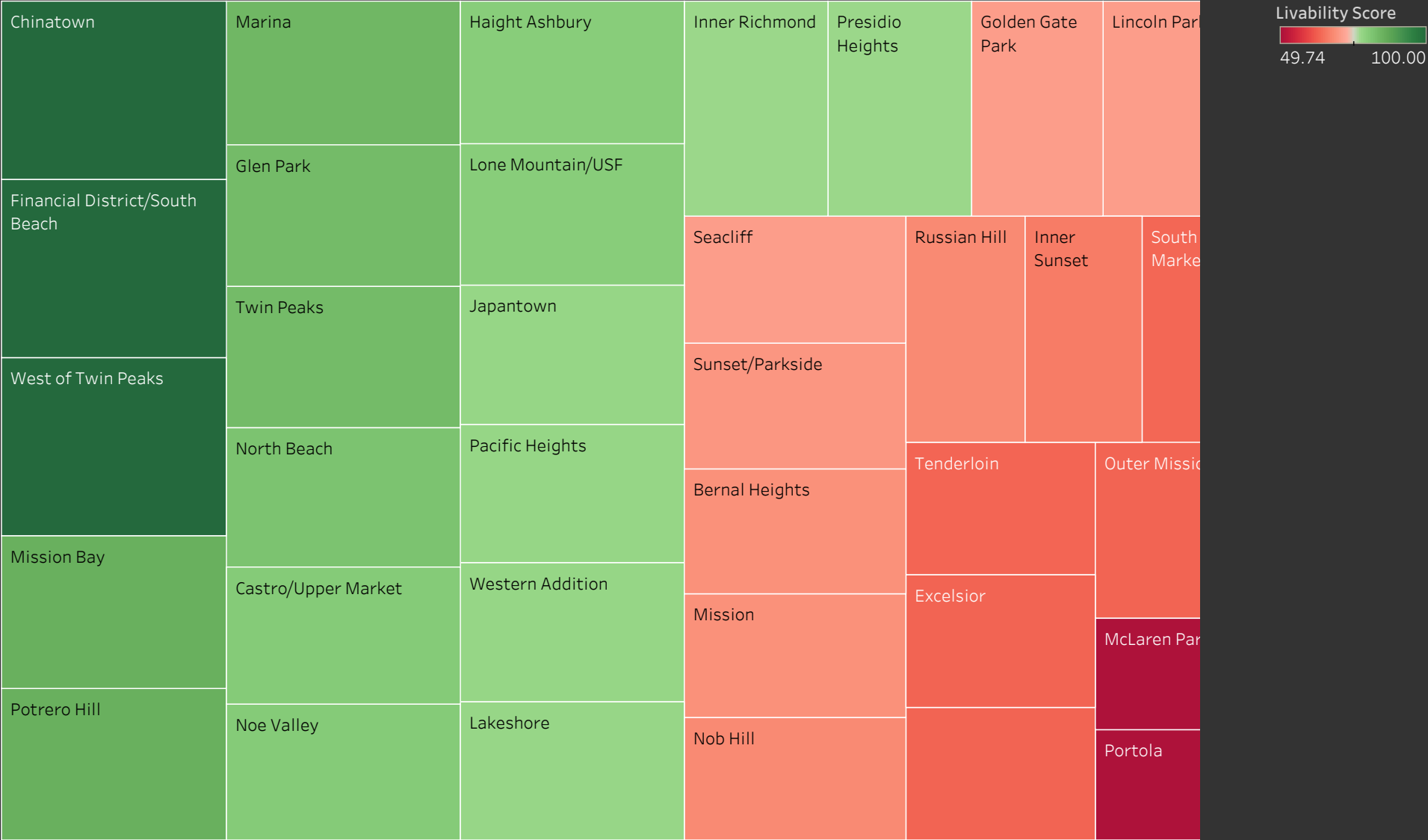


Solve Rate as an attribute for each Neighborhood. Color shows Solve Rate as an attribute. The data is filtered on Action (Neighborhood, YEAR(Year_Crime)), which keeps 152 members. The view is filtered on Solve Rate as an attribute, which ranges from 22.50% to 37.49%.

Solve Rate - Worst Neighborhoods



Solve Rate as an attribute for each Neighborhood. Color shows Solve Rate as an attribute. The data is filtered on Action (Neighborhood, YEAR(Year_Crime)), which keeps 152 members. The view is filtered on Solve Rate as an attribute, which ranges from 9.38% to 14.41%.



Nearhood. Color shows sum of Livability Score. Size shows sum of Livability Score. The marks are labeled by Neighborhood. The data is filtered on sum of House price, average of House price, average of Livability Score, average of Rent Per Month, average of High School, average of Middle School and average of Elementary School. The sum of House price filter keeps non-Null values only. The average of House price filter ranges from 749,000 to 2,200,000 and keeps Null values. The average of Livability Score filter ranges from 49.740461132 to 100 and keeps Null values. The average of Rent Per Month filter ranges from 3,300 to 13,000 and keeps Null values. The average of High School filter keeps all values. The average of Middle School filter keeps all values. The average of Elementary School filter keeps all values. The view is filtered on sum of Livability Score and Neighborhood. The sum of Livability Score filter keeps non-Null values only. The Neighborhood filter excludes Null.

