Introduction

& Time

Crime Rate By Top 10 Categories

Housing Price By Neighborhood

Crime Vs House Prices/Rent

Solve Rate & Change In Crime Crime Trend (201 0 to 2017) Livability Score

Recommendations





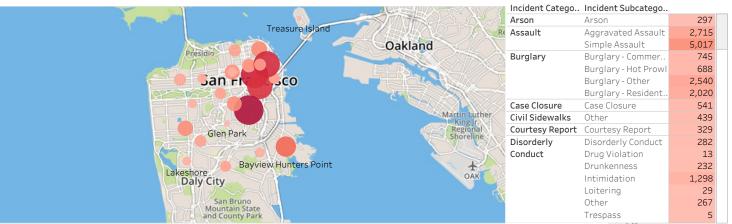
Introduction

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 occurences in San Francisco
- 2. To help prospective buyers find the safest and most affordable place to buy/rent a house in San Francisco

Which area has maximum Crime Rate?



Τı	me	Λt	rı	m	

Incident Da	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		1,068	533
Thursday	412	809		1,655	2,066	1,887	2,121	2,268	1,765		1,077	601
Friday	473	794		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

No. of Incidents

97 14,922

Title	Introduction	Crime & Tim	e Rate By Day e	Crime Rate By Top 10 Categories		Housing Price By Neighborhood						Solve Rate & Change In Crime
					Incident Ca	itegory						
	Larceny Theft	Assault	Motor Vehicle Theft	Burglary	Offences Against The Family And Child	Missing Person	Warrant	Robbery	Fraud	Drug Violation		
Neighborhood					_ ⊢ ⋖							
Bayview Hunters Poin		718	467	331	291	284	239	206	155			
Bernal Heights	481	146	142	108	56	55	62	69	70			
Castro/Upper Market	1,183	269	125	231	59	60	171	80	99			
Chinatown	717	140	43	93	47	63	60	67	68			
Excelsior	257	173	117	117	85	108	66	96	76			
Financial District/Sou		615	216	764	139	112	360	386	402	110		
Glen Park	167	34	26	58	21	16	14	13	15			
Golden Gate Park	508	50	47	37	11	67	36	14	22			
Haight Ashbury	582	115	95	93	28	133	91	13	55			
Hayes Valley	1,463	128	116	182	50	77	64	64	73			
Inner Richmond	549	50	40	53	34	57	30	29	59	11		
Inner Sunset	442	66	67	83	36	94	31		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		
Lone Mountain/USF	465	63	72	79	62	203		24	41	. 8		
Marina	1,108	109	73	229	26	20		53	97	10		
McLaren Park	18	8							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/In	g 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		

Neighborhood All

Recommendations

Crime Trend

(201 0 to 2017)

Livability Score

No. of Incidents

House Prices By Neighborhood



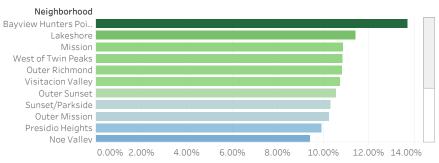
Commute Statistics

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

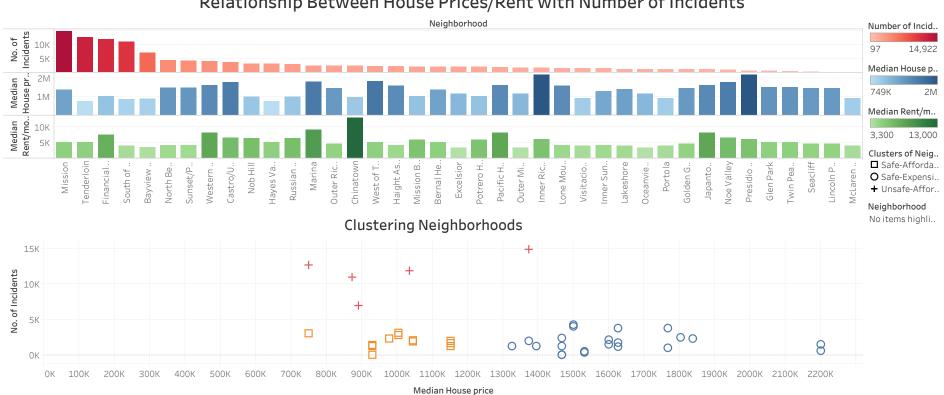
Neighborhood	Elementary Sch	Middle School	High School
Bayview Hunters Po	6	7	10
Bernal Heights	9	9	10
Castro/Upper Market	9	6	10
Chinatown	8	N/A	10
Excelsion	Q		10

Change in Home Price

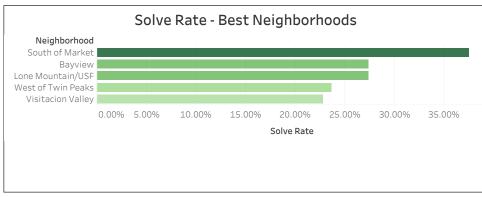


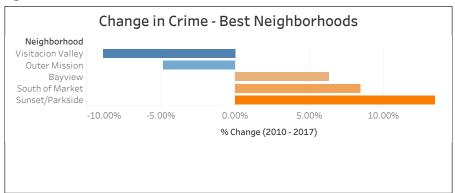
Avg. Housing_Annual Growth Rate (2012 to 2018)

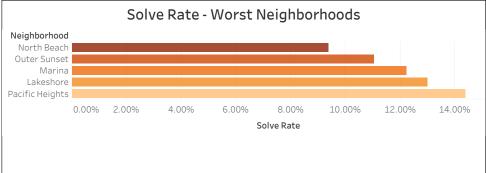
Relationship Between House Prices/Rent with Number of Incidents

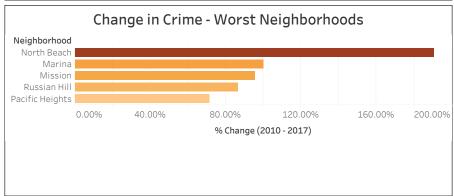


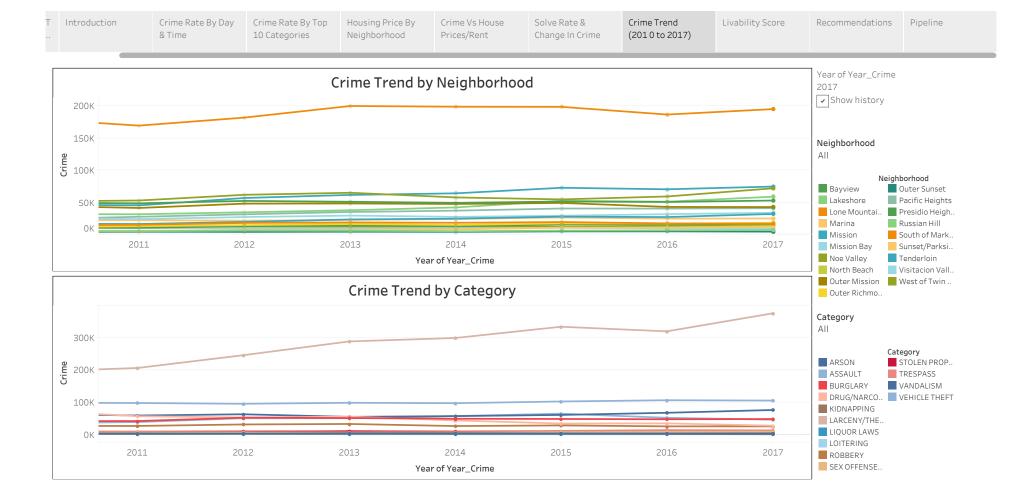
Solve Rate & Change in Crime



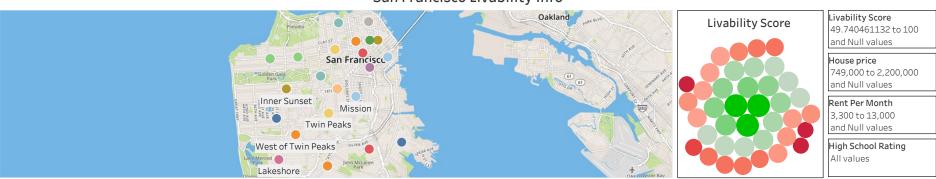








San Francisco Livability Info



Housing Info												
Neighborhood	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									

	1	Neighborh	ood Info		Middle School Rating All values
d Walk Score	Transit Score	High School	Middle School	Elementary School	
B. 84	70	10	7	6	Elementary School Rating
B. 97	85	10	9	9	All values
C. 96	90	10	6	9	
C. 97	100	10	Null	8	
E. 85	91	10	4	8	Neighborhood
F. 98	100	10	Null	9	All
. 72	70	10	Null	9	
. 84	73	10	8	9	
. 93	84	10	Null	9	Neighborhood
. 92	100	10	Null	8	Bayview Hunters Point
I 92	79	10	8	9	Bernal Heights
I 89	67	10	10	10	Castro/Upper Market
J. 98	83	10	8	9	Chinatown
L. 60	60	10	Null	10	Excelsior
					Financial District/Sou.

Т	Introduction	Crime Rate By Day	Crime Rate By Top	Housing Price By	Crime Vs House	Solve Rate &	Crime Trend	Livability Score	Recommendations	Pipeline
		& Time	10 Categories	Neighborhood	Prices/Rent	Change In Crime	(201 0 to 2017)			

Recommendations

											1/6	COIIIII
Chinatown	Twin Peaks	North Beach				Noe	e Vall		Haigh Ashb		Lor	16
Financial District/South Beach												
					Linco Park	In Outer Richmond			Seacliff nd			
West of Twin Peaks	Pacific Heights Western Addition											
Mission Bay						Suns	et	Mark	et			
Potrero Hill	Lakeshore		Mission Nob Hill		ssion							
							Excelsior			Bayview Hunters		McLaren Park
Marina	Inner Richmo	nd							Point			
									Portola			
Glen Park	Presidio Heig	hts	Russ	ian Hil		Oute	r Mis					
							Outer Mission			Visitacion Valley		alley

Mclaren Park
Lincoln Park
Seacliff
Twin peaks
Glen Park
Presidio Heights

Most Economial 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