Select Crime Types:
ASSAULT BURGLARY BURGLARY_THEFT_FROM_VEICHLE
HOMICIDE LESS_SEVERE_CRIME OTHER_THEFT
PERSONAL_THEFT RAPE ROBBERY VEHICLE_THEFT
Neapon Used:
Yes No
Select Descent:
Descent is not Specified Hispanic White Black Asian Other
Native American Pacific Islander
Severity:
Severe Less Severe
Start Point (Minimum Value of Duration Reported (Unit: days)):
0
Select Option (End point)
Select Option (End point) Show Heatmap
☐ Show Heatmap
Show Heatmap✓ Crime Percentages by Area☐ I don't want to see percentage within area
 Show Heatmap ✓ Crime Percentages by Area ☐ I don't want to see percentage within area ☐ I don't want to see percentage of selected crimes
Show Heatmap✓ Crime Percentages by Area☐ I don't want to see percentage within area
☐ Show Heatmap Crime Percentages by Area ☐ I don't want to see percentage within area
 Show Heatmap ✓ Crime Percentages by Area ☐ I don't want to see percentage within area ☐ I don't want to see percentage of selected crimes
 Show Heatmap ✓ Crime Percentages by Area ☐ I don't want to see percentage within area ☐ I don't want to see percentage of selected crimes ☐ Distance Between Crime Location and Nearest Police Station

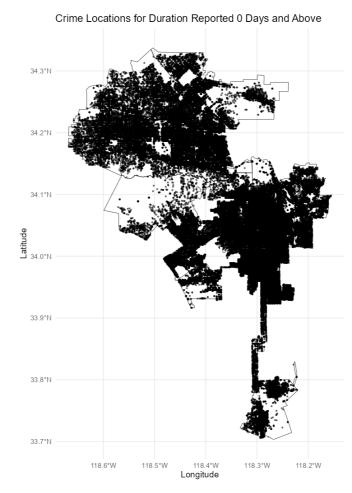
Explore Crime Across LA

Use the filters on the left to visualize crime occurrence, intensity, and distribution across different neighborhoods and conditions.

- Subset category variables



Current Plot



Select observation period

Start Point (Minimum Value of Duration Reported (Unit: days)):

7

Select Option (End point)

End Point (Maximum Value of Duration Reported (Unit: days)):

21

Crime Count in Selected Interval: 232265
Percentage of Total Crimes: 100%
Crime Percentages by Area

Current Plot

Crime Locations for Duration Reported 0 Days and Above

ASSAULT BURGLARY BURGLARY_THEFT_FROM_VEICHLE HOMICIDE LESS_SEVERE_CRIME OTHER_THEFT

PERSONAL THEFT RAPE ROBBERY VEHICLE THEFT

Weapon Used:

Yes No

Select Descent:

Descent is not Specified Hispanic White Black Asian Other Native American Pacific Islander

Severity:

Severe Less Severe

Start Point (Minimum Value of Duration Reported (Unit: days)):

0

☐ Select Option (End point)

Show Heatmap

What would you like to see?

Show Crime Count

O Show Crime Levels

← Heatmap option

Crime Percentages by Area

☐ I don't want to see percentage within area

☐ I don't want to see percentage of selected crimes

☐ Distance Between Crime Location and Nearest Police Station

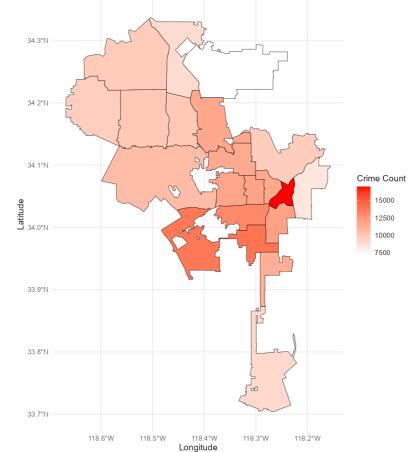
□ Duration of Reported vs. Distance to Police Station

Explore Crime Across LA

Use the filters on the left to visualize crime occurrence, intensity, and distribution across different neighborhoods and conditions.

Current Plot

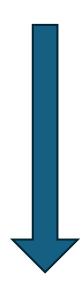




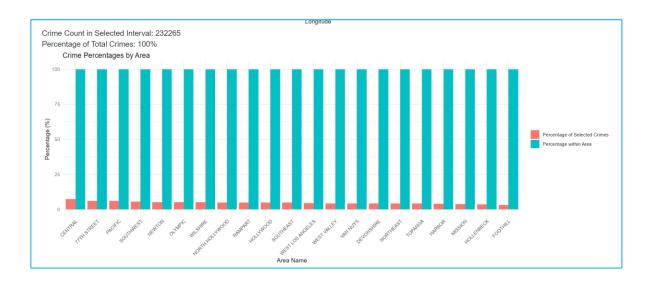
Crime Count in Selected Interval: 232265 Percentage of Total Crimes: 100% Crime Percentages by Area

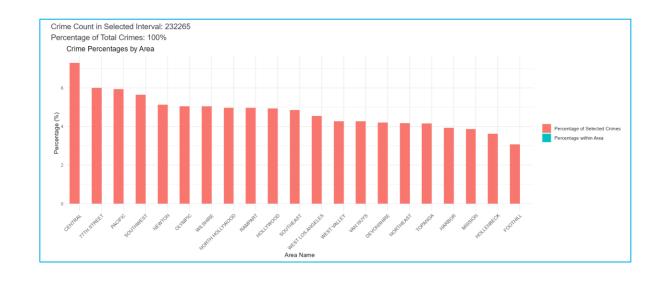
Reset Capture

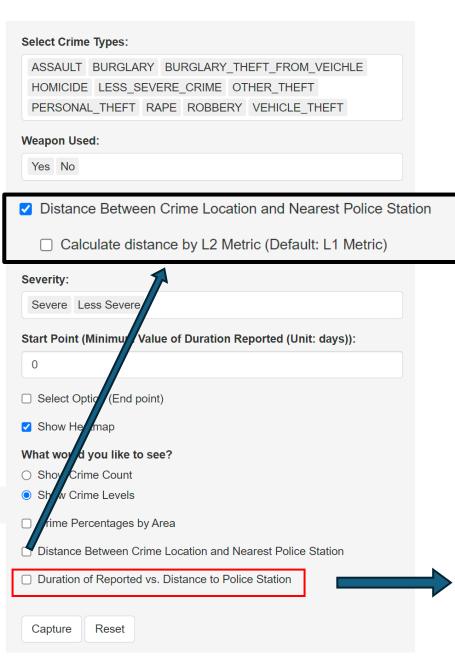
- ✓ Crime Percentages by Area
 - ☐ I don't want to see percentage within area
 - ☐ I don't want to see percentage of selected crimes

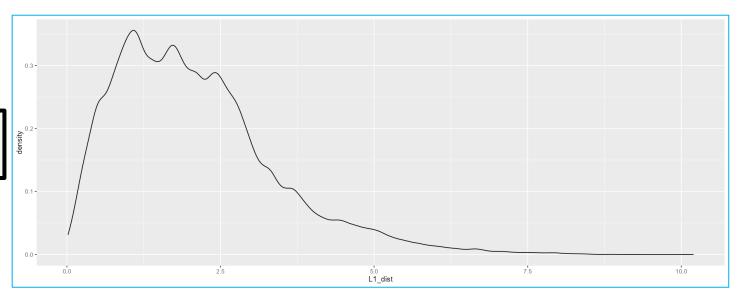


- Crime Percentages by Area
 - ✓ I don't want to see percentage within area
 - ☐ I don't want to see percentage of selected crimes









	Min	1st Quantile	Median	Mean	3rd Quantile	Max	Mode
0∼6 days	0.01	1.09	1.85	2.07	2.75	10.19	1.08
7~49 days	0.01	1.18	2.01	2.20	2.91	8.84	2.41
50~100 days	0.02	1.21	2.07	2.25	2.96	8.24	3.06
101~365 days	0.02	1.22	2.04	2.26	2.96	8.39	2.46
365+ days	0.03	1.26	2.12	2.29	2.90	7.71	1.79

Select Crime Types: ASSAULT BURGLARY BURGLARY THEFT FROM VEICHLE HOMICIDE LESS_SEVERE_CRIME OTHER_THEFT PERSONAL THEFT RAPE ROBBERY VEHICLE THEFT Weapon Used: Yes No Select Descent: Descent is not Specified Hispanic White Black Asian Other Native American Pacific Islander Severity: Severe Less Severe Start Point (Minimum Value of Duration Reported (Unit: days)): 0 □ Select Option (End point) Show Heatmap What would you like to see? Show Crime Count Show Crime Levels

☐ Distance Between Crime Location and Nearest Police Station

☐ Duration of Reported vs. Distance to Police Station

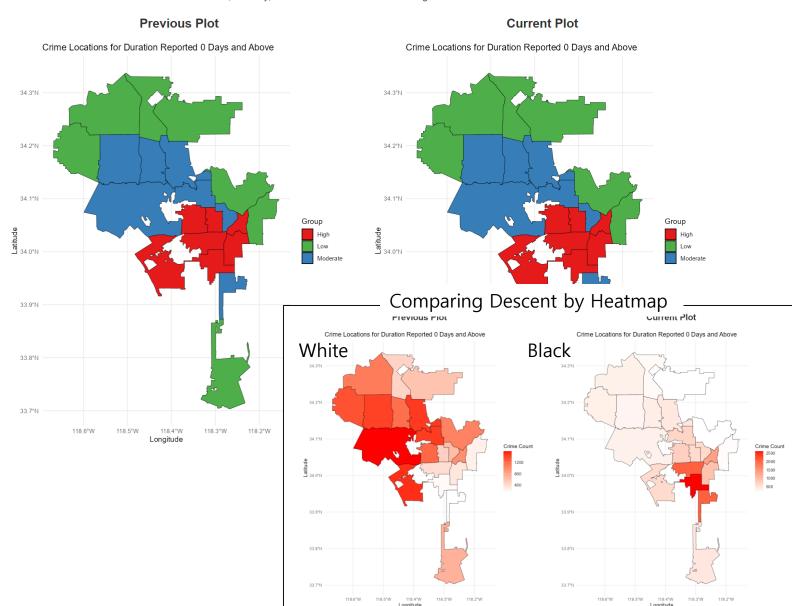
□ Crime Percentages by Area

Reset

Capture

Explore Crime Across LA

Use the filters on the left to visualize crime occurrence, intensity, and distribution across different neighborhoods and conditions.



Select Plots

- Mosaic Plot
- O Duration of Reported vs Distance Between Police Station
- Time-Based Crime Analysis
- O Density Plot (Duration of Reported)
- O Crime Proportions by Time
- O Crime and Socioeconomic Factors

Select Area(s):

HOLLYWOOD CENTRAL NORTH HOLLYWOOD TOPANGA HARBOR WEST VALLEY OLYMPIC 77TH STREET MISSION RAMPART WEST LOS ANGELES SOUTHEAST HOLLENBECK WILSHIRE VAN NUYS NEWTON SOUTHWEST NORTHEAST FOOTHILL DEVONSHIRE PACIFIC

Select Plot:

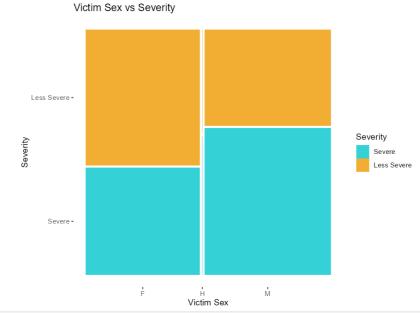
Victim Sex vs Severity

Explore Temporal and Socioeconomic Crime Patterns

Dive deeper into how crime relates to time, demographic factors, and socio-economic conditions.



← Options for each plot



Contingency Table:

M Total 36577 12 55444 92033 Severe Less Severe 46371 9 36312 82692 82948 21 91756 174725 Total

Chi-squared Test:

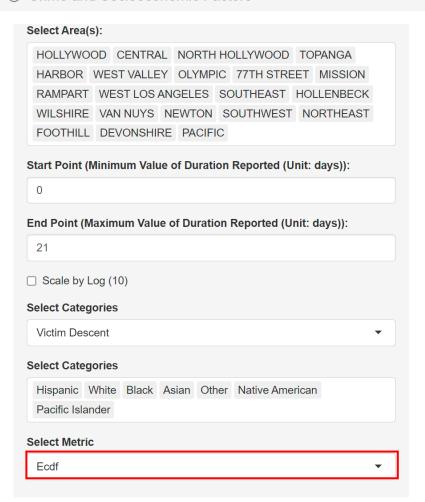
Pearson's Chi-squared test

data: tbl

X-squared = 4660, df = 2, p-value < 2.2e-16

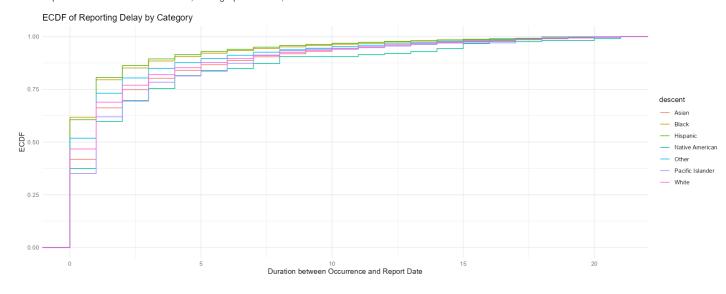
Select Plots

- Mosaic Plot
- O Duration of Reported vs Distance Between Police Station
- Time-Based Crime Analysis
- Density Plot (Duration of Reported)
- O Crime Proportions by Time
- Crime and Socioeconomic Factors



Explore Temporal and Socioeconomic Crime Patterns

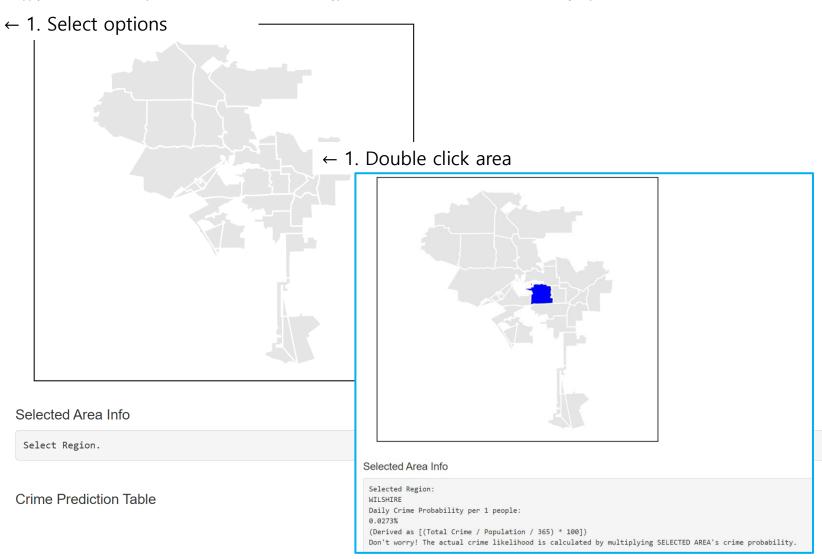
Dive deeper into how crime relates to time, demographic factors, and socio-economic conditions.



category	0 day	1 day	2 day	3 day	4 day	5 day	6 day	7 day	8~49 day	50~100 day	101~365 day	365+ day
Asian	0.38	0.60	0.68	0.73	0.76	0.79	0.80	0.82	0.95	0.97	1.00	1.00
Black	0.58	0.74	0.80	0.83	0.85	0.86	0.87	0.88	0.96	0.98	1.00	1.00
Hispanic	0.57	0.76	0.81	0.84	0.86	0.88	0.89	0.90	0.97	0.98	1.00	1.00
Native American	0.33	0.52	0.61	0.66	0.71	0.73	0.74	0.76	0.94	0.97	1.00	1.00
Other	0.47	0.67	0.74	0.78	0.80	0.82	0.83	0.85	0.95	0.97	1.00	1.00
Pacific Islander	0.32	0.56	0.62	0.70	0.73	0.75	0.79	0.82	0.96	0.97	1.00	0.00
White	0.42	0.62	0.70	0.74	0.77	0.79	0.81	0.83	0.95	0.97	1.00	1.00

Crime Prediction by Modeling

Apply advanced models to predict the likelihood of various crime types based on victim and time characteristics. Adjust parameters and visualize outcomes below.

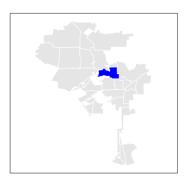


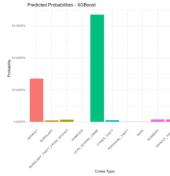
Predict

Select Model for Visualization:

- Multinomial_Logit
- Random_Forest
- XGBoost

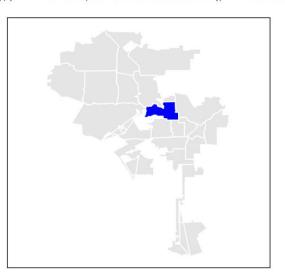
XGBoost

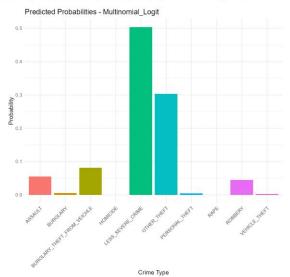




Crime Prediction by Modeling

Apply advanced models to predict the likelihood of various crime types based on victim and time characteristics. Adjust parameters and visualize outcomes below.





Selected Area Info

Selected Region:
HOLLYWOOD
Daily Crime Probability per 1 people:
0.0212%
(Derived as [(Total Crime / Population / 365) * 100])
Don't worry! The actual crime likelihood is calculated by multiplying SELECTED AREA's crime probability.

Crime Prediction Table

First 5 Crimes

Model	ASSAULT	BURGLARY	BURGLARY_THEFT_FROM_VEICHLE	HOMICIDE	LESS_SEVERE_CRIME
Multinomial_Logit	5.4510%	8.1468%	0.5703%	0.0003%	30.3486%
Random_Forest	28.0000%	3.0000%	1.0000%	0.0000%	62.0000%
XGBoost	26.9372%	1.2919%	0.7825%	0.0164%	0.9768%

Next 5 Crimes

Model	OTHER_THEFT	PERSONAL_THEFT	RAPE	ROBBERY	VEHICLE_THEFT
Multinomial_Logit	50.3453%	0.4390%	0.0007%	4.4758%	0.2224%
Random_Forest	6.0000%	0.0000%	0.0000%	0.0000%	0.0000%
XGBoost	66.9666%	0.0788%	0.0780%	1.4354%	1.4364%