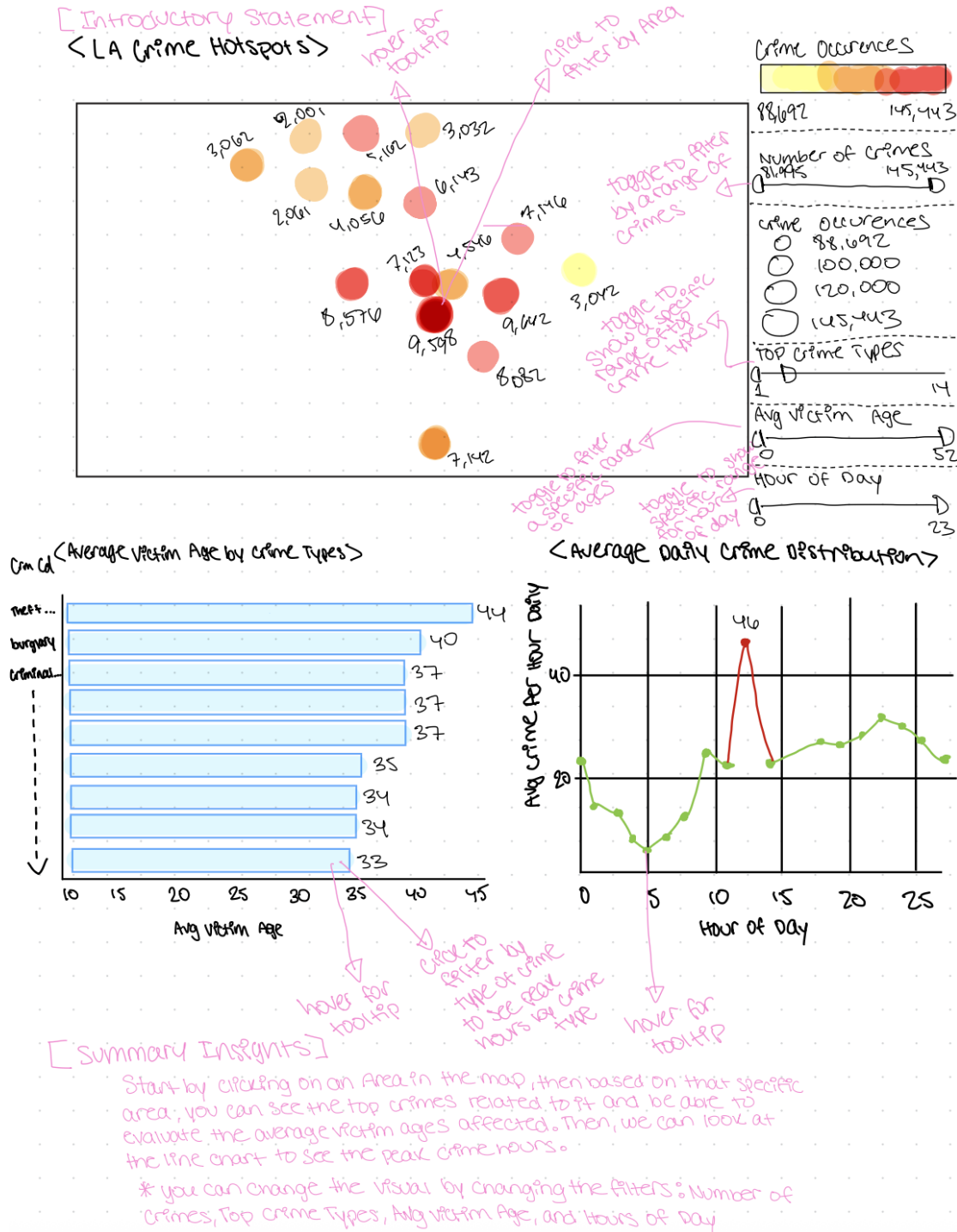# Interactive Dashboard

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Part 1: Dashboard Design and Structure
Step 1: Planning the Layout and Structure

[Introductory Statement]
<LA Crime Hotspots>
hover for tooltip
click to filter by Area

Crime Occurrences
88,692   145,443

Number of crimes
81,045   145,443

toggle to filter by a range of # of crimes

crime occurrences
○ 88,692
○ 100,000
○ 120,000
○ 145,443

Top Crime Types
1   14

toggle to specific show of top range of crime types

Avg Victim Age
0   52

toggle on filter a specific range of ages

Hour of Day
0   23

toggle to show specific range for hour of day

Map values: 3,062 · 2,001 · 3,032 · 5,102 · 6,143 · 2,001 · 4,056 · 7,123 · 4,506 · 7,146 · 8,576 · 9,598 · 9,642 · 3,042 · 8,052 · 7,142

Cm Cd <Average Victim Age by Crime Types>

Theft...
burglary
criminal...

Bar values: 44, 40, 37, 37, 37, 35, 34, 34, 33

Avg Victim Age (x-axis): 10 15 20 25 30 35 40 45

hover for tooltip
click to filter by type of crime to see peak hours by crime

<Average Daily Crime Distribution>

Avg Crime Per Hour Daily (y-axis): 20, 40
46

Hour of Day (x-axis): 0 5 10 15 20 25

hover for tooltip

[Summary Insights]
Start by clicking on an Area in the map, then based on that specific area, you can see the top crimes related to it and be able to evaluate the average victim ages affected. Then, we can look at the line chart to see the peak crime hours.

* you can change the visual by changing the filters: Number of crimes, Top Crime Types, Avg Victim Age, and Hours of Day
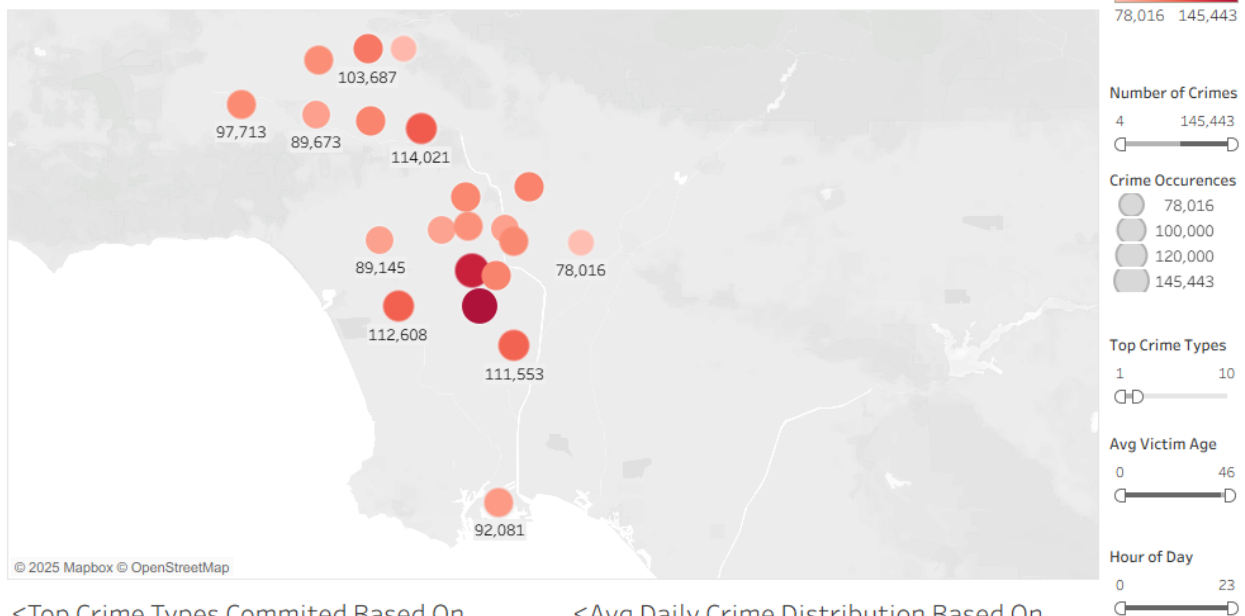
Part 2: Build and Refine the Dashboard
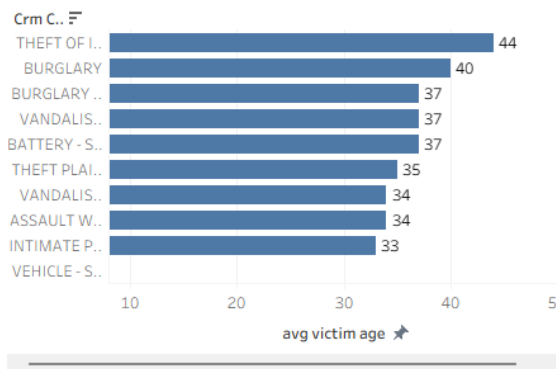
Step 1: Building Our Dashboard

Dashboard:
https://public.tableau.com/views/FinalDS330DashboardPD6/Dashboard1?:language=en-US&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link
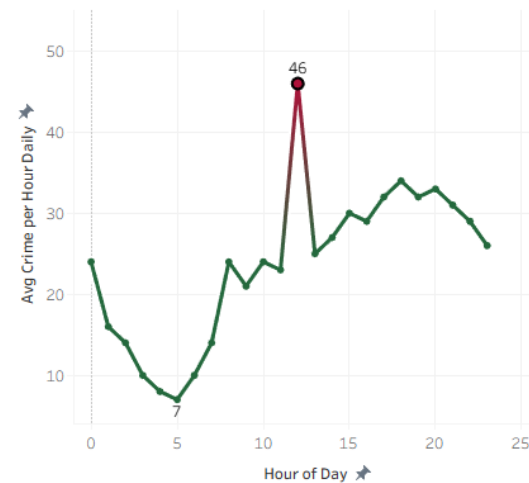
Step 2: Final refinements

Summary:
The dashboard provides its audience with an overview of the crimes committed in Los Angeles. The dashboard starts with a visualization depicting LA crime hotspots centered around 77th street. These locations are highlighted in red with darker color relating to the severity of the rate of crimes in each area. Then sideways bar charts are used to give insight into the most common crime types with the average age of the victims displayed next to each bar. The final visualization is a line graph used to show how the average rate of crime changes throughout the course of a day. To improve the experience of using the dashboard, interactive features like filters and highlight actions are used to increase detail and help in narrowing information.

Final Insight:
Crime in LA is centered around 77th street with crime most commonly occurring at noon.

Call-to-action:
Use this dashboard to help identify who is at risk of facing crime and to avoid high risk areas at peak crime hours.