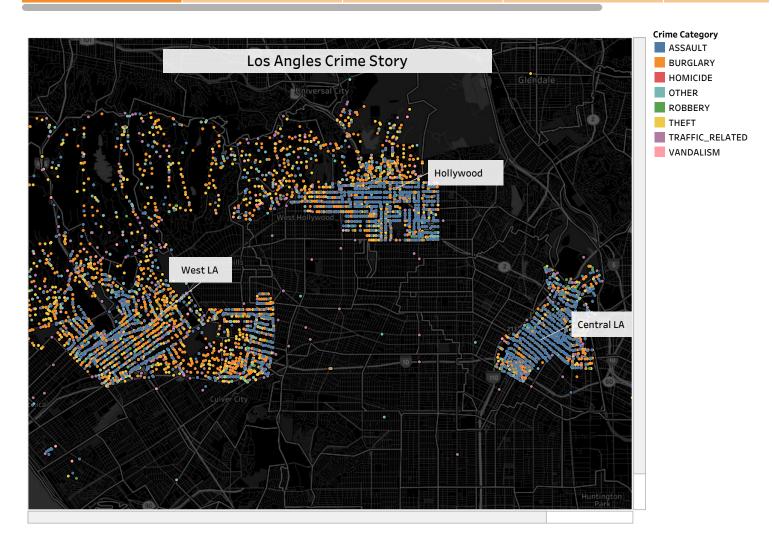
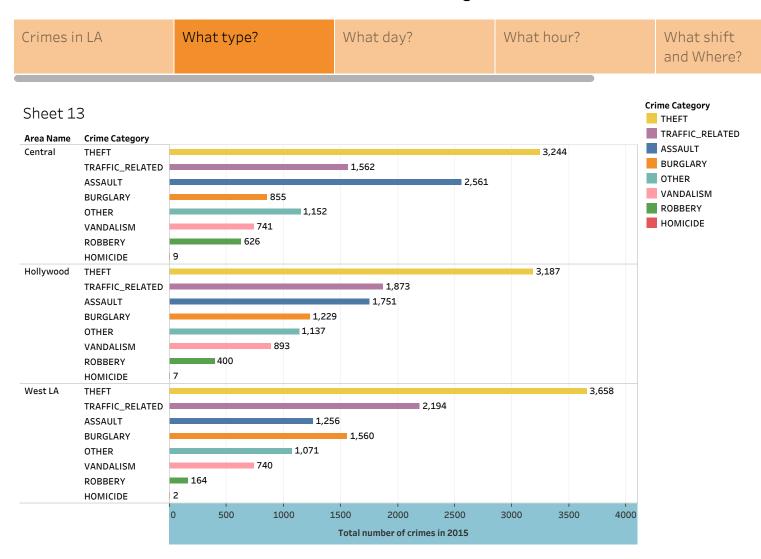
Crimes in LAWhat type?What day?What hour?What shift and Where?



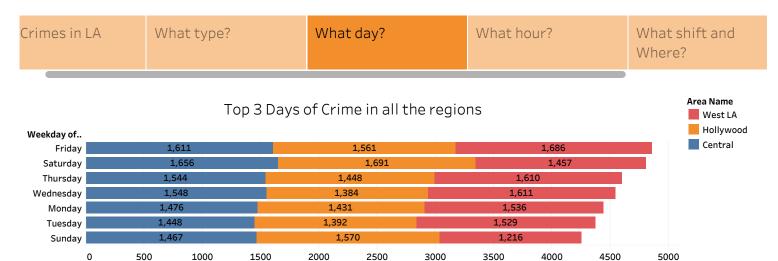
This analysis is about the crimes at Los Angeles in the year 2015. The above graph is a representation of different types of crimes occuring in different region of LA. A total of 31,872 crimes occured in all the three regions together. We shall now delve into the data to see what, when and where these crimes occured.



From this graph we can see that there are around 8 types of crime categories which are mapped against each region . But actually there are 112 types of crimes which were categorized accordingly to generalize the type of crime which makes it easy to represent.

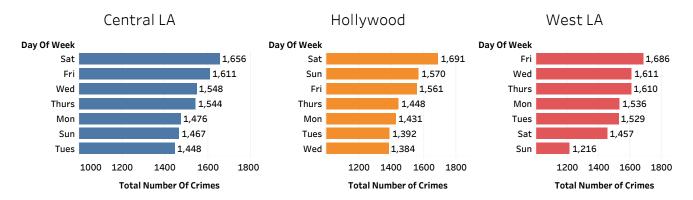
We can infer that, the top 3 categories of crimes occruing in all the regions are Theft, Traffic related and Assualt among which Theft stands first among all with a total count of 10,089.

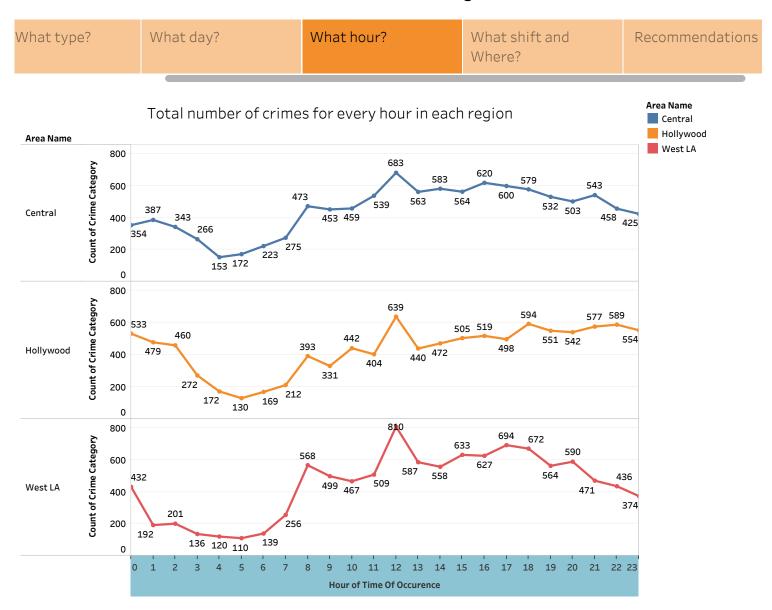
Now that we have seen the types of crime, let us see what day of the year has the highest crime rate.



This graph represents the total count of crimes occured in a day. As we can see, there is a clear pattern of high crime rate here of top 3 days being Friday, Saturday and Thursday for all the regions together. There is an increasing trend of crime rate from the weekdays to weekend till saturday and again there is a decrease on sunday. Below are three graphs separated into each region to further understand the top 3 days for each region. we can infer that

- In Central region, Saturday, Friday and Wednesday are the top 3 days of crime
- In Hollywood, Saturday, Sunday and Friday are the top 3 days of crime
- In West LA, Friday, Wednesday and Thursday are the top 3 days of crime..



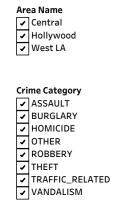


Let us look the ditributiong of crime by hour. As there is uneven distribution of crime occurence by each hour (no clear pattern seen) we are unable to determine right hour for patrolling.

What type?	What day?	What hour?	What shift and Where?	Recommendations

Let us now look at the data in a different way

				Day Of \	Neek		
Duration	Area Name	Sun	Mon	Tues	Wed	Thurs	Sat
7AM-12PM	Central	218	349	333	371	344	282
	Hollywood	205	292	266	241	278	225
	West LA	209	369	364	378	368	256
7PM-12AM	Central	321	309	300	324	347	405
	Hollywood	404	375	351	367	385	473
	West LA	290	345	347	335	357	368
12AM-7AM	Central	403	244	227	199	232	366
	Hollywood	501	255	228	218	253	462
	West LA	213	177	178	189	174	225
12PM-7PM	Central	525	574	588	654	621	603
	Hollywood	460	509	547	558	532	531
	MostlA		<u> </u>	<u> </u>	<u> </u>	<u> </u>	



Count of Crime Category
174 711

We divide the day into 5 hour class interval according to the day of the week for each region and look at the distribution as we couldn't find clear distribution for each hour.

It is now apparent that almost on all days for all regions, "12PM - 7PM" has the highest number of crimes followed by "7PM - 12AM".

This helps in recommending real time schedules of patrolling and we can staff patrol cars according to these trends.

What type? What day? What hour? What shift and Where?
