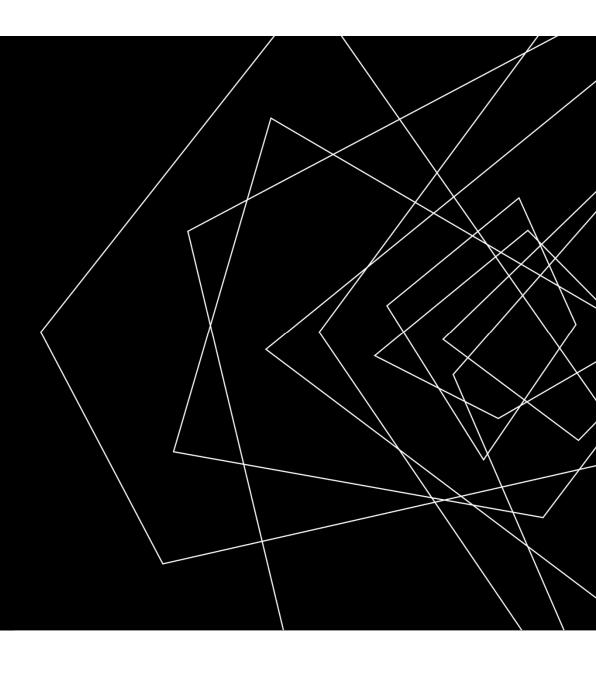


METRO BIKE SHARE

Q1 2022 Analysis

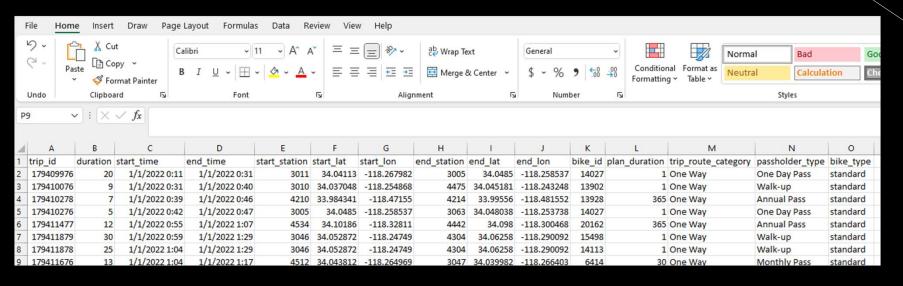
ABOUT THE PROGRAM

The Metro Bike Share system makes bikes available 24/7, 365 days a year in Downtown LA, Central LA, Hollywood, North Hollywood and on the Westside. Metro Bike Share offers convenient round-the-clock access to a fleet of bicycles for short trips. Metro Bike Share is one of LA Metro's multiple public transportation options for Angelenos and visitors to get around.



THE DATA

https://bikeshare.metro.net/about/data/



Some formulas used for cleaning:

- Text to Columns (separate out date / times)
- FLOOR (put times into 1-hour buckets)
- TEXT (assign day of the week based on date)
- XLOOKUP (add in station names based on id)

HYPOTHESIS

For the users that hold either an 'Annual Pass' or 'Monthly Pass', we might discover that there is a concentration of users starting their rides on weekdays and between the hours of 7-10 am & 3-6 pm. If these users are more likely than not commuter users and we see a concentration of these users starting at stations within a close radius of each other, should we recommend to the marketing team to focus their efforts for the these passes near the top 12 starting stations to drive more revenue?

HEAT MAPS

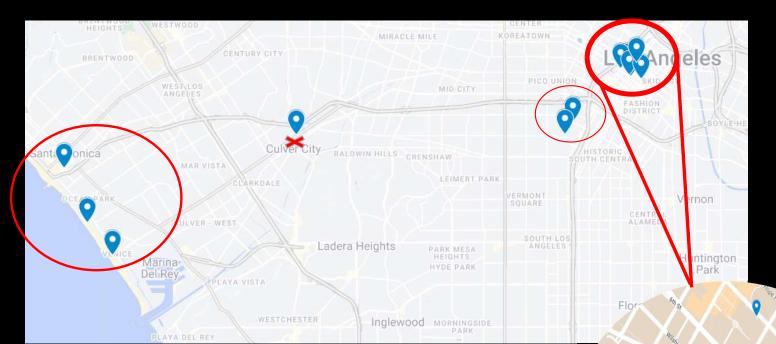
No. of rides by time / day
No. of rides by time / pass type

Walk-up	ne Day Pass	Ionthly Pass O	Annual Pass M	Hour 🗐	Friday	Thursday	Wednesday	Tuesday	Monday	Hour 🗤
54	21	125	44	12 AM	42	59	59	39	45	12 AM
20	18	74	18	1 AM	33	28	29	21	19	1 AM
19	21	55	10	2 AM	29	15	21	18	22	2 AM
14	11	39	5	3 AM	10	15	14	16	14	3 AM
8	7	115	9	4 AM	25	34	26	33	21	4 AM
8	13	49	16	5 AM	18	16	17	20	1 5	5 AM
60	22	355	74	6 AM	97	108	104	119	83	6 AM
132	33	476	200	7 AM	134	180	191	172	164	7 AM
269	68	832	217	8 AM	229	299	310	265	283	8 AM
365	137	997	224	9 AM	370	369	332	366	286	9 AM
469	235	942	130	10 AM	406	350	359	319	342	10 AM
588	303	1,421	178	11 AM	503	510	492	499	486	11 AM
692	324	1,656	240	12 PM	610	579	550	581	592	12 PM
781	317	1,717	311	1 PM	662	666	629	600	569	1 PM
884	303	1,552	246	2 PM	597	617	588	620	563	2 PM
909	330	1,623	294	3 PM	645	612	640	577	682	3 PM
942	285	1,783	393	4 PM	736	687	681	704	595	4 PM
848	230	1,869	447	5 PM	650	720	698	658	668	5 PM
592	194	1,808	399	6 PM	636	589	648	542	578	6 PM
442	135	1,631	297	7 PM	510	491	539	458	507	7 PM
280	68	1,054	210	8 PM	318	322	335	318	319	8 PM
204	38	722	165	9 PM	234	210	237	211	237	9 PM
137	28	374	108	10 PM	162	121	125	119	120	10 PM
140	32	238	65	11 PM	128	101	86	87	73	11 PM
8,857	3,173	21,507	4,300	Total	7,784	7,698	7,710	7,362	7,283	Total

- Monday to Friday only

- Every Pass Type

TOP 12 STATIONS



MPershing Square

- Monday to Friday
- 7 AM to 6 PM
- Passholders only

7th & Flower	766	DTLA
Figueroa & 8th	716	DTLA
Downtown Santa Monica E Line Station	548	Westside
Ocean Front Walk & Navy	546	Westside
Olive & 8th	457	DTLA
Severance & Adams	405	DTLA
Ocean Front Walk & North Venice	403	Westside
Grand & 8th	380	DTLA
7th & Spring	330	DTLA
5th & Grand	318	DTLA
Hoover & 32nd	315	DTLA
Bagley & Venice	261	Westside

HEAT MAPS

No. of rides by time / day

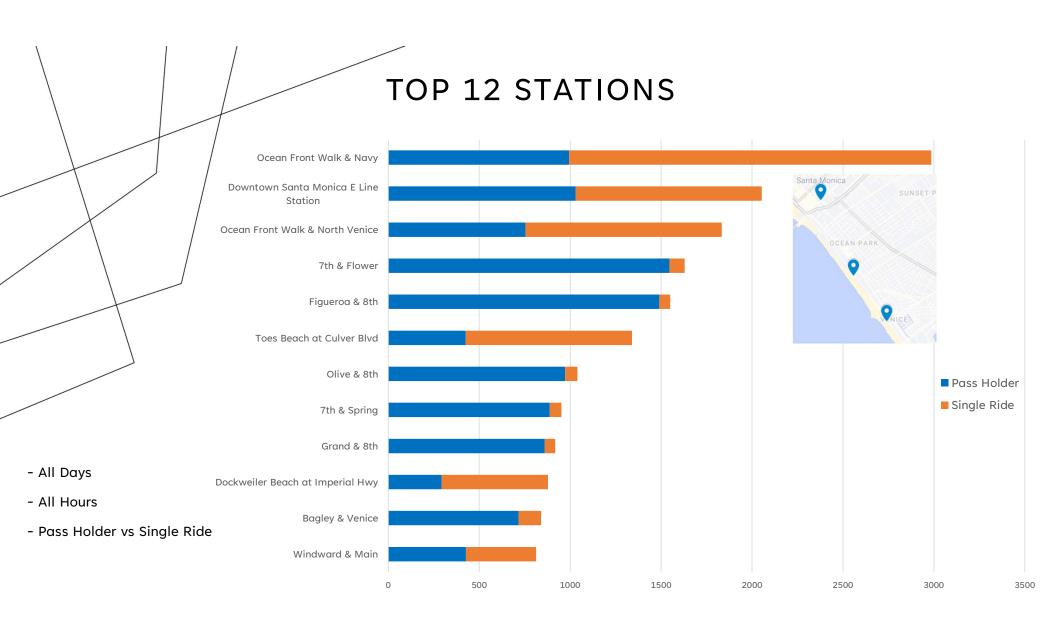
No. of rides by time / pass type

Hour 🗐	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
12 AM	95	45	39	59	59	42	93
1 AM	76	19	21	29	28	33	93
2 AM	57	22	18	21	15	29	63
3 AM	40	14	16	14	15	10	28
4 AM	20	21	33	26	34	25	14
5 AM	8	15	20	17	16	18	9
6 AM	35	83	119	104	108	97	51
7 AM	74	164	172	191	180	134	86
8 AM	206	283	265	310	299	229	199
9 AM	342	286	366	332	369	370	367
10 AM	472	342	319	359	350	406	552
11 AM	737	486	499	492	510	503	596
12 PM	781	592	581	550	579	610	789
1 PM	884	569	600	629	666	662	844
2 PM	916	563	620	588	617	597	937
3 PM	914	682	577	640	612	645	882
4 PM	790	595	704	681	687	736	890
5 PM	761	668	658	698	720	650	779
6 PM	518	578	542	648	589	636	600
7 PM	437	507	458	539	491	510	460
8 PM	288	319	318	335	322	318	310
9 PM	212	237	211	237	210	234	230
10 PM	151	120	119	125	121	162	171
11 PM	99	73	87	86	101	128	156
Total	8,913	7,283	7,362	7,710	7,698	7,784	9,199

- All Days

- Every pass type

Hour	Annual Pass	Monthly Pass	One Day Pass	Walk-up
12 AM	64	218	41	109
1 AM	48	139	34	78
2 AM	18	115	34	58
3 AM	9	77	22	29
4 AM	18	127	15	13
5 AM	19	54	14	16
6 AM	101	379	37	80
7 AM	204	571	51	175
8 AM	248	1,011	141	391
9 AM	318	1,302	237	575
10 AM	209	1,382	393	816
11 AM	274	1,931	506	1,112
12 PM	352	2,225	614	1,291
1 PM	472	2,334	571	1,477
2 PM	361	2,222	607	1,648
3 PM	431	2,274	623	1,624
4 PM	496	2,435	546	1,606
5 PM	543	2,572	415	1,404
6 PM	482	2,400	298	931
7 PM	372	2,158	196	676
8 PM	273	1,409	111	417
9 PM	207	974	70	320
10 PM	165	537	57	210
11 PM	98	365	47	220
Total	5,782	29,211	5,680	15,276



CONCLUSION

- Recommending that canvassing for promotions and marketing materials for the Annual & Monthly passes should be focused near **Downtown / Financial District,** and the areas surrounding the **USC** campus.
- For Single Rides, the area of focus should be near the Santa Monica / Venice areas as well as all the entry points to LA like airports, train & bus stations.





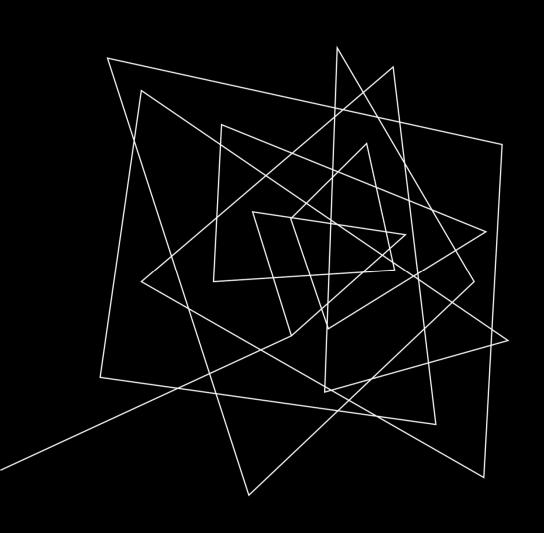






IF I HAD MORE TIME...

- Exploring the behavior of One-way vs Round trips.
 Could there be patterns here that could optimize where staff are moving bikes around at the beginning or end of a day?
- Is there a tendency of users to choose an electric vs standard bike in certain areas? Should we invest in more inventory of one over the other because of this?
- Knowing that the Annual & Monthly passes get the first 30 minutes free, are we pricing these passes correctly based on the average trip duration? Do our customer perceieve the value of signing up for these passes?



THANK YOU!