



DIVVY

PROJECT TWO

PLANNING YOUR DIVVY TRIP

A WEBSITE FOR NAVIGATING CHICAGO BY DIVVY BICYCLE



 Ruth Hinkle

 Charlie Denys

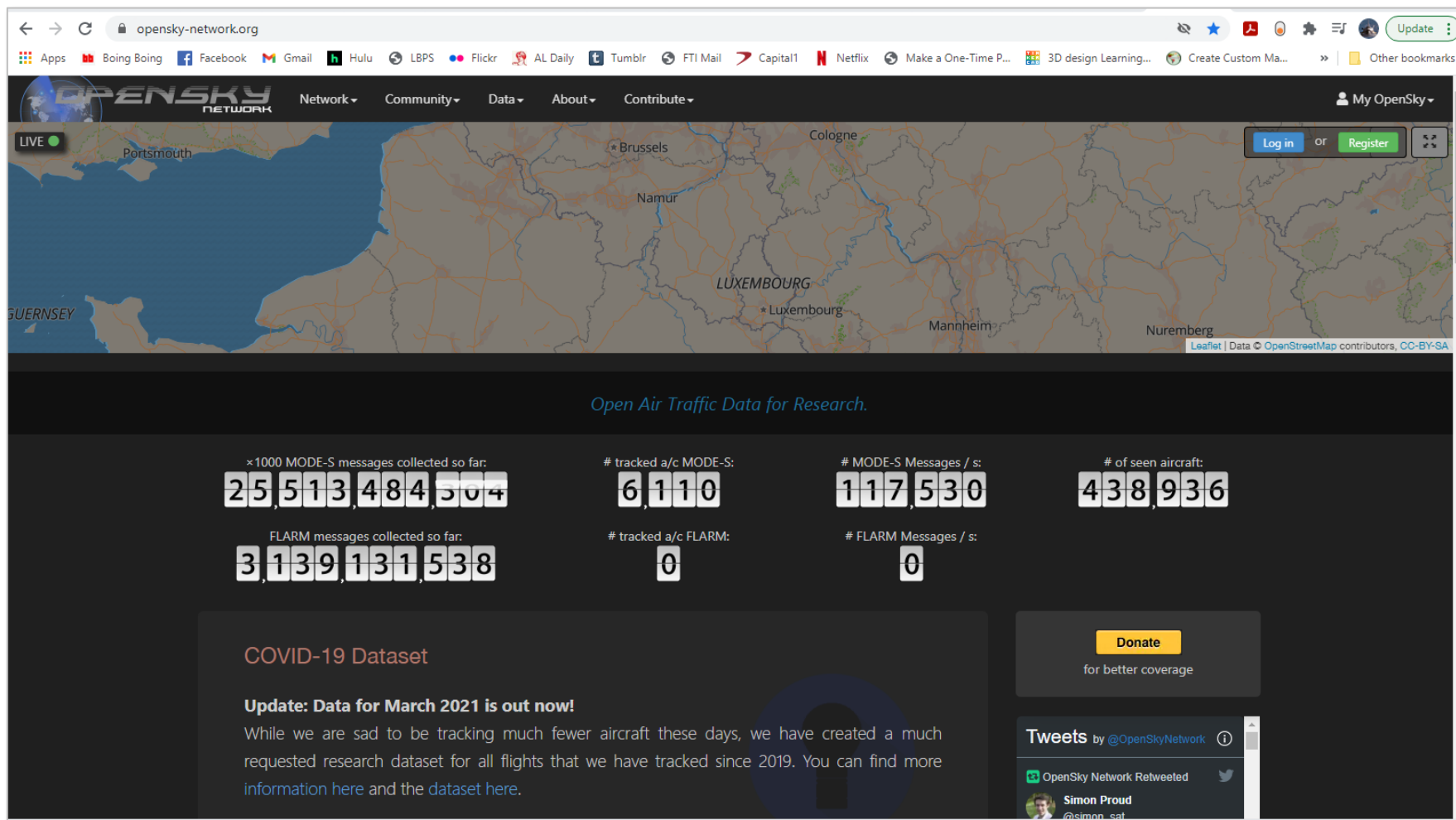
 Nabila Farooqi

 Drew McBride

 Andrew Neher

MISADVENTURES IN DATA

OPENSKY.ORG



OPENSKY.ORG

Data Sets created from OpenSky Data

On this page, we will collect and briefly introduce the datasets created from OpenSky data that are available. Principally, these have all been created either via our historical data Impala shell (access request required), or our live API.

This list is work in progress, **we will be adding more tailored datasets in the future as our researchers develop them. Unless noted otherwise in the respective repository, our Terms of Use / License.txt apply.**

Further reading for a collection of datasets beyond (and including) the OpenSky ones below: <https://atmndata.github.io/>

All datasets:

1. Weekly 24 hours of State Vector Data
2. OpenSky Raw Data
3. The LocaRDS Dataset
4. The Covid-19 Flight Dataset
5. OpenSky's Aircraft Metadata Database
6. Reference datasets for in-flight emergency situations
7. Climbing Aircraft Dataset
8. Database for world aircraft's common GICB capabilities

PuTTY QUERIES

PuTTY Configuration

Category:

- Session
- Logging
- Terminal
- Keyboard
- Bell
- Features
- Window
- Appearance
- Behaviour
- Translation
- Selection
- Colours
- Connection
- Data
- Proxy
- Telnet
- Rlogin
- SSH
- Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address) Port

Connection type:
☐ Raw ☐ Telnet ☐ Rlogin ☒ SSH ☐ Serial

Load, save or delete a stored session

Saved Sessions

Default Settings
Test01

Load Save Delete

Close window on exit:
☐ Always ☐ Never ☒ Only on clean exit

Open Cancel

About Help

time	icao24	lat	lon	velocity	heading	verttrate	callsign	onground	alert	spl	squawk	baroaltitude	geoaltitude	lastposupdate
1480766399	3c4aba	51.61861096398305	-0.6172943115234375	228.7772436259364	276.325963839693	0	CFG116	false	false	false	2566	9753.6	9677.4	1480766397.214
1480765819	3c650e	46.13182455806489	5.953079223632812	93.85184496278892	45	-1.95072	DLH3HR	false	false	false	1000	1226.82	1234.44	1480765818.528
1480766399	3c64c1	51.84329223632812	3.285431733002554	233.0402928077832	276.5916099350312	0	DLH482	false	false	false	0621	10363.2	10317.48	1480766398.495
1480766256	a2003c	NUL	NUL	NUL	NUL	NUL	NUL	false	false	false	3702	1965.96	NUL	1480766255.629
1480764972	343542	49.7567138671875	6.32176449424342	212.6639567199688	67.52939800293686	0.97536	NUL	false	false	false	1034	1402.08	NUL	1480764970.746
1480764827	471f8a	50.08513369802701	9.156807564400339	228.14786910364	136.370451017996	8.77824	NZ2561	false	false	false	2246	9509.76	9425.940000000001	1480764826.561
1480765955	3c0a44	50.9852142339844	8.26369826858108	120.993904162228	33.55493622107899	-5.20192	SX05US	false	false	false	2340	1386.84	1478.28	1480765944.331
1480763658	309f14	NUL	NUL	NUL	NUL	NUL	NUL	false	false	false	7070	1196.34	NUL	1480763657.214
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1480762993	3c4a0b	49.51020812988281	5.666487844366776	244.9644908612793	84.4568087055156	0.32512	NUL	false	false	false	1000	1866.9	9677.4	1480761742.166
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1480766150	3c6447	50.04401643397444	8.535820213524071	60.5734595022494	69.102234501611515	0	DLHU9	true	false	false	7773	7.62	NUL	1480766147.297
1480763155	3c6545	50.03640747070312	8.494094045538651	69.66491163488236	69.69155816347806	-3.57632	DLHF9	true	false	false	1000	-15.24	NUL	1480763143.242
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1480766399	aa4993	51.63706970214844	-2.826307142103019	238.1386781350128	277.4474168501952	0	UAL988	false	false	false	2565	10363.2	10332.72	1480766396.629
1480763836	02a187	49.17855834960938	8.462360080641827	212.4398351093876	183.887909560831	10.40834	TAR745	false	false	false	0637	6187.440000000001	6156.96	1480763835.992
1480766372	40666a	50.12768244339248	5.062321843327703	259.7499027269761	116.2098117462835	0.32512	NUL	false	false	false	1214	12496.8	NUL	1480766371.237
1480763555	3c66ab	50.02950377383474	8.542463972761825	63.95058389381243	63.95058389381243	0	DLH78P	false	false	false	1000	-15.24	99.06000000000002	1480763554.377
1480766399	405b6a	51.70473260394597	2.390365600859398	218.2898101682891	286.427649993077	-5.20192	EZY93M	false	false	false	7774	7139.940000000001	7178.04	1480766397.714
1480766399	406a9f	51.02707167803231	8.012771606445312	235.1171875	285.221557617875	0	BAW36	false	false	false	3273	12184.38	12188.18	1480766398.01
1480765423	471f51	51.06485661745233	9.002785546875	214.99658203125	314.708862304875	0	WZ328K	false	false	false	7673	9753.6	9669.780000000001	1480765421.355
1480766399	404b02	49.1636525390625	10.274402493999	228.7498326223865	331.917777116594	-13.0048	KLW97H	false	false	false	1000	7414.26	7414.26	1480766398.124
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1480763210	3c4dc7	50.7512514996094	10.46368083576334	198.660835033399	341.041004755627	-7.80288	NUL	false	false	false	1000	1668.78	NUL	1480761902.489
1480766399	3c6659	48.63838325112552	10.88904129831414	171.0891094635839	148.031167562723	-7.80288	DLH3P3	false	false	false	1000	-4008.12	4008.12	1480766398.417
1480763655	3c6758	50.0282003117584	5.83689657675234	66.4131865165647	69.5997906514673	0	DLH133	false	false	false	1262	-15.24	91.44000000000001	1480763648.334
1480766399	40073c	51.2870137400668	6.432647705078125	226.865478515625	283.90869140625	0	BAW156	false	false	false	3251	11582.4	11445.24	1480766398.034
1480766399	40803b	51.35733832226562	3.164582123625734	232.7349977668584	206.812280622248	0.32512	BAW37D	false	false	false	2525	11582.4	11475.72	1480766395.099
1480766399	407020	49.77835445808773	5.86666712436655	244.0807735966655	122.082187156061	0.32512	EZY42D	false	false	false	2703	10668	10637.52	1480766398.47959
1480764662	4a0831	50.75358581542969	5.123488967483108	215.6078932066187	104.367125646737	0	NUL	false	false	false	7771	10668	NUL	1480764661.192
1480764487	4cabbe	48.940251400596217	9.408251400596217	229.8298361758654	149.014248927927	0.32512	RYR17R	false	false	false	0115	10668	10584.18	1480764486.29
1480764601	485086	NUL	NUL	NUL	NUL	NUL	NUL	false	false	false	7176	7124.700000000001	NUL	1480764600.512
1480766399	78070e	50.94825873940677	10.18081665039062	229.2392570125	61.8804931646625	-38.1	CSN348	false	false	false	0642	10668	10546.08	1480766397.512
1480766399	02a187	49.17855834960938	8.012771606445312	240.894411805452	171.4023681772187	0.32512	LT215	false	false	false	2541	10965.18	10886.12	1480766398.408
1480763823	40612c	49.8656359115601	5.713491439819336	218.9731354335554	288.7754843644236	0	EZY97N	false	false	false	7677	11590.02	11468.1	1480763816
1480766399	4692d1	49.86552429199219	9.367507313476151	250.0380859375	138.504638671875	0	AE61F	false	false	false	3171	11277.6	11155.68	1480766398.234
1480764057	3c6592	50.02711486816406	8.53232935855263	61.84036295992448	70.8761541830303	-3.2512	DLHBV	false	false	false	1000	7.62	NUL	1480764055.594
1480765351	ae0806	49.98059308792373	10.95789728937922	227.6291171959153	254.8016659954097	-10.72896	RCH109	false	false	false	3214	213.36	NUL	1480765357.769
1480764058	3c0ca0	51.23113903808594	6.293978304476352	233.486938476525	233.486938476525	0	TU17YB	false	false	false	1135	10363.2	10256.52	1480764057.673
1480764034	3c6613	49.8724365234375	8.183224326685854	145.678514811851	300.0962307750871	-8.128	DLH8MC	false	false	false	1000	1440.18	1432.56	1480764033.888
1480766399	402026	45.40255737304688	9.067121233258929	242.8573469577595	157.4548239840881	0	AKC395	false	false	false	0175	11277.6	11209.02	1480766398.994
1480766399	406a9e	51.57499694824219	0.262706859691723	130.1705979875348	82.73455310016089	-5.52704	BAW276	false	false	false	3244	3642.36	3779.52	1480766398.802
1480763145	3c4dc6	NUL	NUL	NUL	NUL	NUL	NUL	false	false	false	7174	2887.98	NUL	1480763144.746
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1480763772	3c6658	50.9485846050715	7.418975830078125	178.1559012765262	178.1559012765262	-7.80288	DLH20X	false	false	false	7177	2156.46	2552.7	1480763771.746
1480766399	402026	45.40255737304688	9.067121233258929	242.8573469577595	157.4548239840881	0	RYR40H	false	false	false	3244	3642.36	3779.52	1480766397.638
1480764998	4ca63b	51.62768865035752	6.91650390625	214.54443359375	294.3511962890625	59.055	EIN35Y	false	false	false	7670	11582.4	11445.24	1480764997.422
1480766399	2e8183	50.625	6.743601206186655	226.978515625	286.995849609375	NUL	AA1737	false	false	false	7671	10972.8	10972.8	1480766398.035
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1480766399	4ca4e6	50.81781005859375	5.322430584881757	150.6978503700705	297.002415045987	-8.45312	BE18SA	false	false	false	1000	2895.6	2956.56	1480766394.009
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1480766399	75028f	48.4869537374205	15.99681653474507	279.7672100225942	174.208529312886	0	MA53	false	false	false	7772	10668	10485.12	1480766397.409
1480766283	4ca542	45.6538727328877	9.781471252441406	79.50115778418547	285.3851883536536	-3.90144	RYR40F	false	false	false	2544	411.48	480.06	1480766278.09
1480765743	3c55a3	48.36260801542969	11.76987868888942	63.68517520984927	83.50647468746074	-3.90144	DLH2EL	false	false	false	1000	365.76		

PURPOSE OF OUR SITE

DIVY

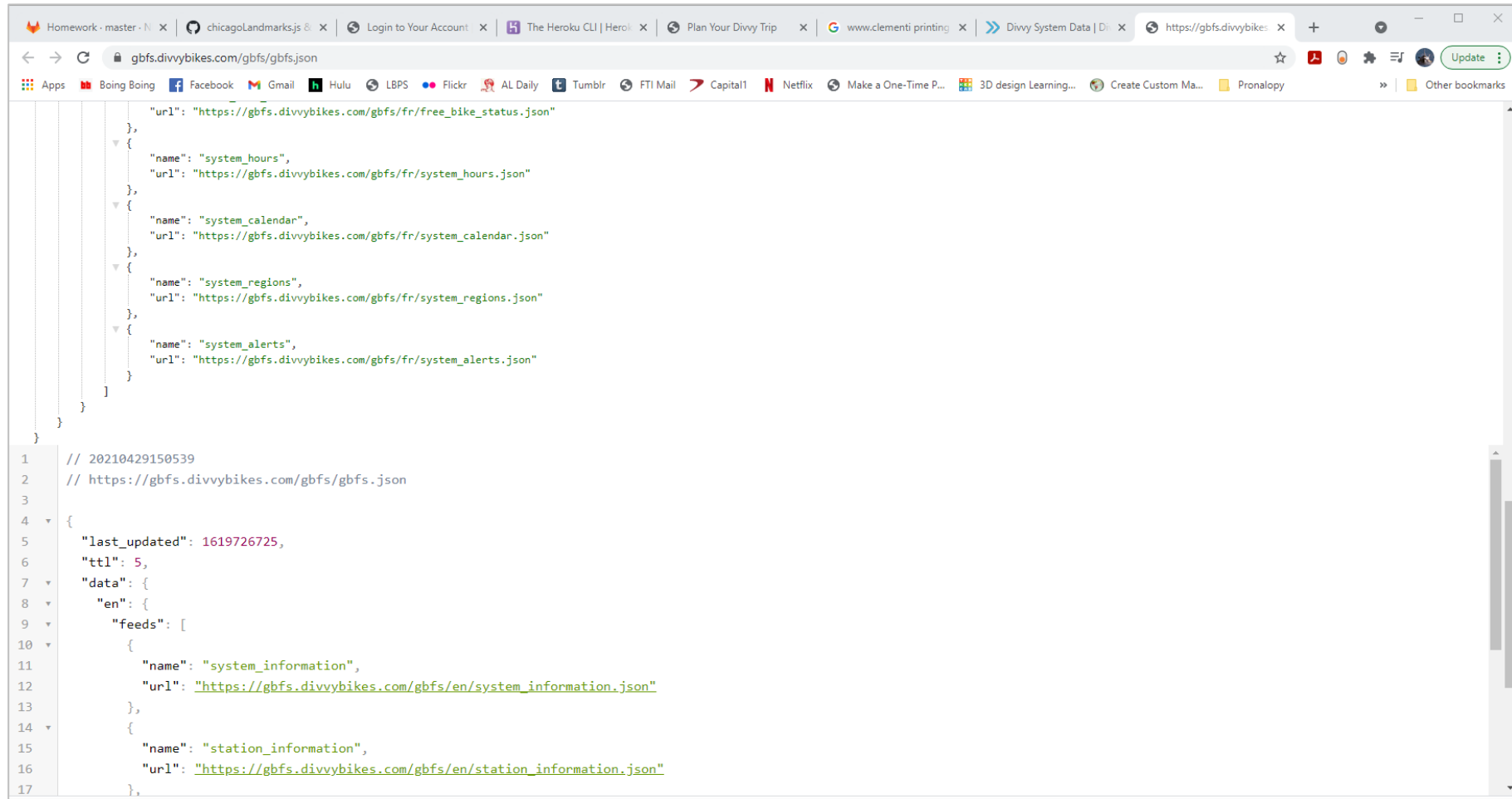


PLANNING YOUR DIVVY TRIP

THE SITE

1. BUILT A WEBSITE TO LOCATE AVAILABLE BIKES USING LIVE JSON API DATA AVAILABLE
2. MARKER CLUSTER GROUP VISUALIZATION LAYERS
3. MULTIPLE LAYERS SHOWING ELECTRIC AND CLASSIC BIKES
4. POPULAR BIKE ROUTES VISUALIZED
5. FEATURES CHICAGO LANDMARKS
6. SEARCHABLE TABLE USING LIVE DATA

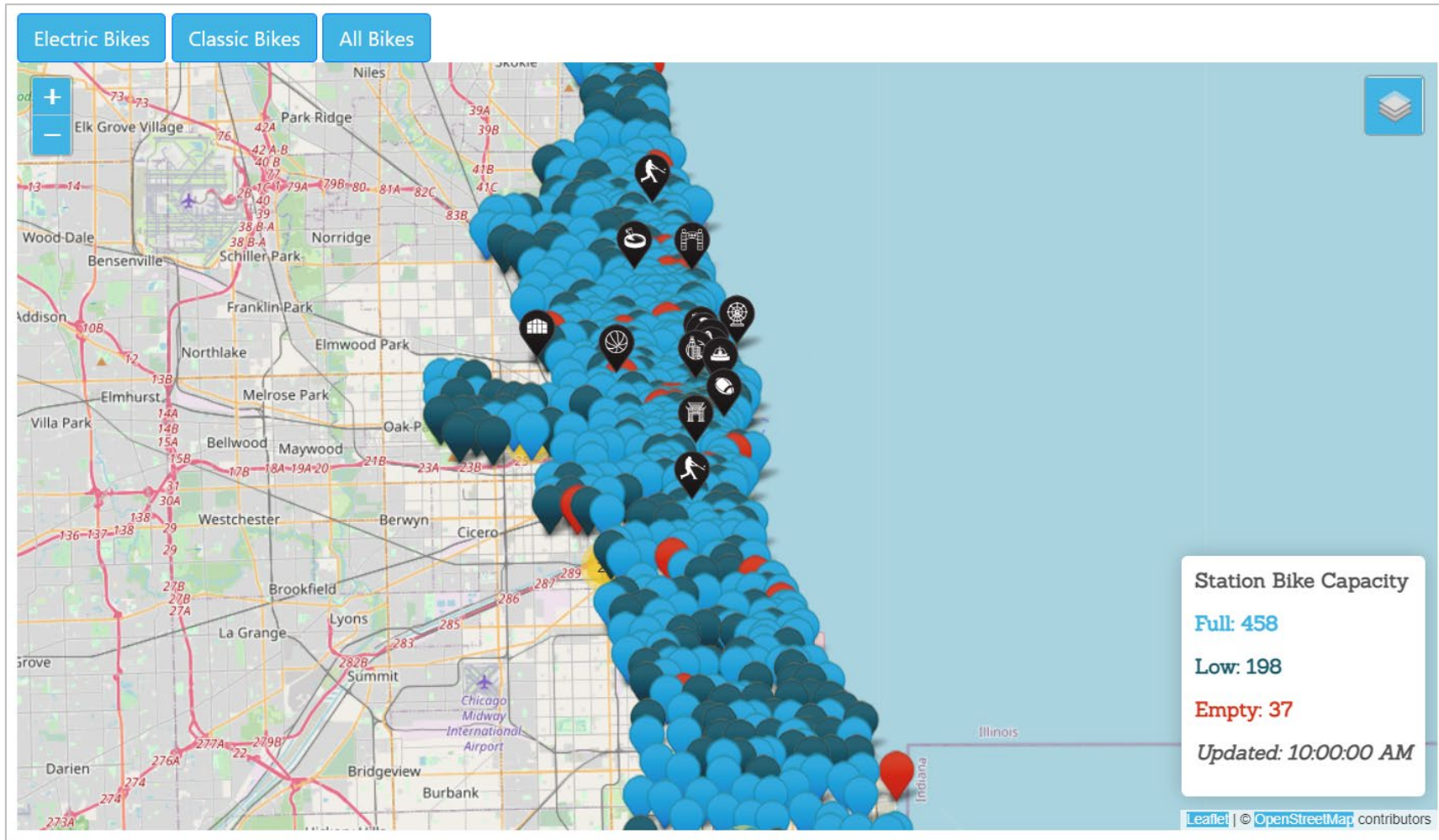
DATA SOURCE: GBFS.DIVVYBIKES.COM



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// https://gbfs.divvybikes.com/gbfs/gbfs.json
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    "en": {
      "feeds": [
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        },
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          "url": "https://gbfs.divvybikes.com/gbfs/en/station_information.json"
        }
      ]
    }
  }
}
```



INITIAL VIEW



LANDING PAGE

DI VY

Home

Table

Data Table

Chicago Divvy Data

Filter Search

Enter a Location

Buckingham

Enter a Capacity

10

Enter a Station Type

classic

Filter Table

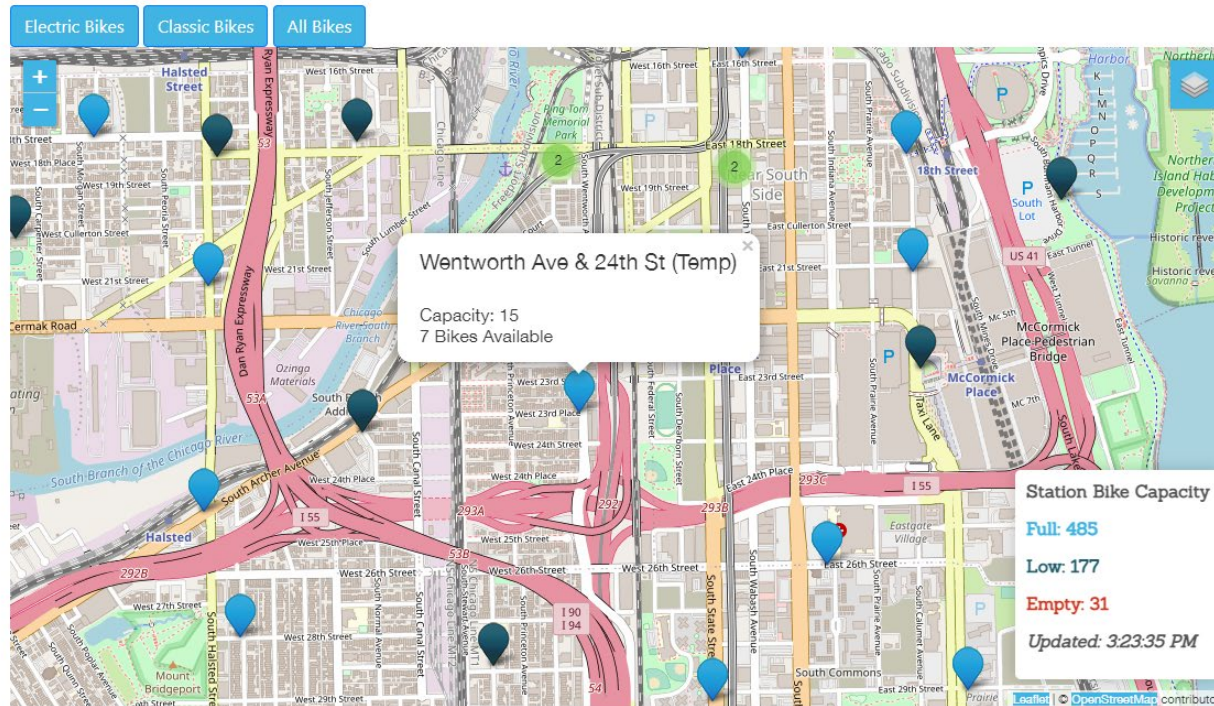
Location	Capacity	Station Type	Latitude	Longitude
Buckingham Fountain	39	KEY,TRANSITCARD,CREDITCARD	41.87651122881695	-87.62054800987242
Shedd Aquarium	55	KEY,TRANSITCARD,CREDITCARD	41.86722595682	-87.6153553902
Burnham Harbor	23	KEY,TRANSITCARD,CREDITCARD	41.856268	-87.613348
State St & Harrison St	23	KEY,TRANSITCARD,CREDITCARD	41.874053	-87.627716
Dusable Harbor	39	KEY,TRANSITCARD,CREDITCARD	41.886976	-87.612813
Field Blvd & South Water St	19	KEY,TRANSITCARD,CREDITCARD	41.88634906269	-87.6175165471
Leavitt St & Archer Ave	15	KEY,TRANSITCARD,CREDITCARD	41.82879201994	-87.6806044594
Jeffery Blvd & 71st St	11	KEY,TRANSITCARD,CREDITCARD	41.76663823695	-87.5764501141
South Shore Dr & 71st St	15	KEY,TRANSITCARD,CREDITCARD	41.7664094567	-87.5656875719
Wilton Ave & Diversey Pkwy	35	KEY,TRANSITCARD,CREDITCARD	41.932418	-87.652705
Morgan St & 18th St	15	KEY,TRANSITCARD,CREDITCARD	41.858086	-87.651073
Racine Ave & 18th St	15	KEY,TRANSITCARD,CREDITCARD	41.858166	-87.656495
Paulina Ave & North Ave	15	KEY,TRANSITCARD,CREDITCARD	41.910337	-87.670072

LIVE TABLE

DIVVY Home Table

Plan Your Divvy Trip

Click an area to find a station near you or your destination. Prefer electric bikes over classic models?
Use the buttons above the map to pick your bike type.



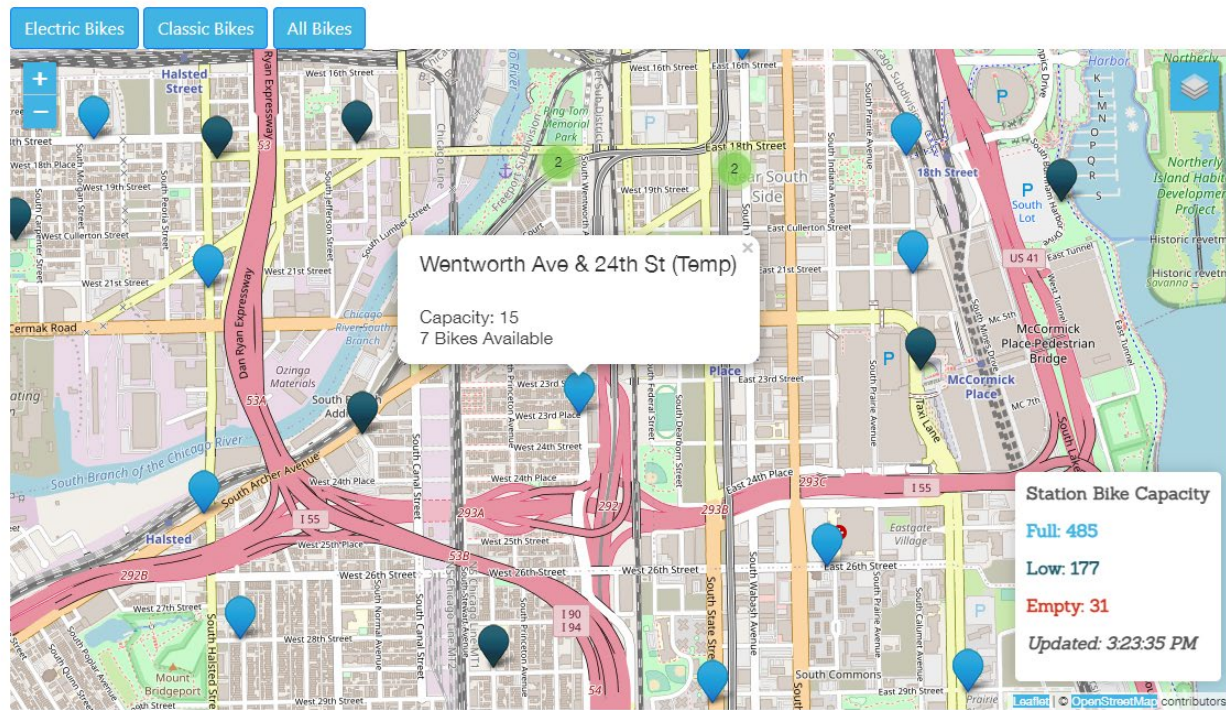
THE SITE



Home Table

Plan Your Divvy Trip

Click an area to find a station near you or your destination. Prefer electric bikes over classic models?
Use the buttons above the map to pick your bike type.



TEAM OBSERVATIONS

1. **GROUP EFFORT!** COMMUNICATION AND CODING HANDOFFS WENT SMOOTHLY.
2. QUICKLY ADAPTING AND CHANGING COURSE BECAME NECESSARY AFTER OUR INITIAL IDEA WENT BUST.
3. GLOBAL BIKE FEED SPECIFICATION.

