

{California Airports, 2020

(Josh Koepke)

}

# Original Dataset {

- Data on California public airports in 2020.
- Collected and used by the state of California for management purposes.
- Contains advanced jargon and leftovers from relational database usage.
- Limited functionality as links to individual airport websites no longer work.

}

Public Airports (Point) (2020) [C]																			
data.bayareametro.gov/Operations-Use/Public-Airports-Point-2020/fancy-egui/data																			
Public Airports (Point) (2020)																			
This is a point layer of Public Use Airports currently permitted by the State of California, Department of Transportation (Caltrans), Division of Aeronautics. Details for each site are updated +																			
More Views Filter Visualize Export Discuss Embed About																			
OBJECTID	shape	facility	maplabel	airportid	city	county	fnctnclass	classcode	statelclass	faasrvcl	faasiteno	district	manager	mngmrg	phone	FST0url	latidd	longidd	latdms
63	POINT (-121...	YOLO COUN...	YOLO COUNTY	DWA	Davis/Wood...	Yolo	Community	4	COMMUNITY...	General Aviat...	01488 *A	3	Gary Engel	Gary.Engel@...	530-406-5044	http://www.g...	38.579389	-121.856944	38-34-44.5611N
62	POINT (-123...	WILLITS MUN...	WILLITS MUNI	O28	Willits	Mendocino	Community	4	COMMUNITY...	General Aviat...	02455 1*A	1	Bill Willis	bwillis@city...	707-459-4601	http://www.g...	39-451298	-123-372284	39-27-04.672N
61	POINT (-121...	WATTS - WO...	WATTS - WO...	041	Woodland	Yolo	Community	4	COMMUNITY...	Not a NPIAS...	02467 *A	3	William Bruce	brucewatts1...	530-867-6652	http://www.g...	38-673876	-121-872077	38-40-25.955N
60	POINT (-121...	WATSONVILL...	WATSONVILL...	WV1	Watsonville	Santa Cruz	Regional	3	REGIONAL-B...	General Aviat...	02428 *A	5	Raymon Wilka	raymon.wilka...	831-768-3574	http://www.g...	36-935732	-121-786939	36-56-08.628N
59	POINT (-121...	UNIVERSITY ...	UNIVERSITY	EDU	Davis	Yolo	Community	4	COMMUNITY...	General Aviat...	01488 1*A	3	Cliff Contreras	ccontreras@...	530-752-5435	http://www.g...	38-531461	-121-786478	38-31-53.264N
58	POINT (-123...	UKIAH MUNI...	UKIAH MUNI	UK1	Ukiah	Mendocino	Regional	3	REGIONAL-B...	General Aviat...	02383 *A	1	Greg Owen	gowen@cityo...	707-467-2855	http://www.g...	39-129597	-123-200855	39-07-33.446N
57	POINT (-120...	TURLOCK MA...	TURLOCK MA...	O15	Turlock	Merced	Community	4	COMMUNITY...	General Aviat...	02376 *A	10	Eric Schutze	eschutze@tur...	209-668-559	http://www.g...	38-639972	-120-697222	37-29-14.768N
56	POINT (-121...	TRACY MUNI...	TRACY MUNI	TCY	Tracy	San Joaquin	Regional	3	REGIONAL-B...	General Aviat...	02359 *A	10	Paula Jessup	paula.jessup...	209-636-8949	http://www.g...	37-689	-121-441611	37-41-20.788N
55	POINT (-121...	SUTTER COU...	SUTTER COU...	052	Yuba City	Sutter	Community	4	COMMUNITY...	General Aviat...	02484 *A	3	Neal Hay	nhay@co.sut...	530-822-4402	http://www.g...	39-123667	-121-605361	39-07-35.612N
54	POINT (-121...	STOCKTON ...	STOCKTON ...	SKC	Stockton	San Joaquin	Commercial...	1	PRIMARY-NO...	Commercial...	02314 *A	10	Ron Elliott	RElliott@sg...	209-488-4707	http://www.g...	37-894167	-121-238306	37-53-39.00N
53	POINT (-122...	SONOMA VA...	SONOMA VA...	003	SchellvilleSo...	Sonoma	Community	4	COMMUNITY...	Not a NPIAS...	02281 5*A	4	Chris Prevost	chris@vintag...	707-938-2444	http://www.g...	38-222917	-122-449722	38-13-24.699N
52	POINT (-122...	SONOMA SK...	SONOMA SK...	009	Sonoma	Sonoma	Community	4	COMMUNITY...	Not a NPIAS...	02293 9*A	4	Ronald Price	rsp@vom.com	707-996-2100	http://www.g...	38-257444	-122-434083	38-15-27.696N
51	POINT (-121...	SAN MARTIN ...	SAN MARTIN	E16	San Martin	Santa Clara	Regional	3	REGIONAL...	Reliever	02213 4*A	4	Eric Peterson	eric@county...	408-918-7722	http://www.g...	37-081586	-121-596806	37-04-53.710N
50	POINT (-121...	SAN JOSE INT...	SAN JOSE INT...	5JC	San Jose	Santa Clara	Commercial...	1	PRIMARY-ME...	Commercial...	02194 *A	4	John Atkien	jatkien@sjc...	408-392-3610	http://www.g...	37-362667	-121-923911	37-21-42.703N
49	POINT (-122...	SAN FRANCIS...	SAN FRANCIS...	SFO	San Francisco	San Mateo	Commercial...	1	PRIMARY-LA...	Commercial...	02187 *A	4	Ivar Satero	ivar.satero@...	650-821-5000	http://www.g...	37-618972	-122-374889	37-37-08.407N
48	POINT (-122...	SAN CARLOS ...	SAN CARLOS	SNS	San Carlos	San Carlos	Metropolitan	2	METROPOLIT...	Reliever	02160 1*A	4	Gretchen Kelly	gkelly@smc...	650-573-3700	http://www.g...	37-511855	-122-249524	37-30-42.678N
47	POINT (-121...	SALINAS MU...	SALINAS MU...	SLS	Salinas	Monterey	Regional	3	REGIONAL-B...	General Aviat...	02137 *A	5	Brett Godson	brett.godson...	831-758-7214	http://www.g...	36-662778	-121-606361	36-39-46.000N
46	POINT (-121...	SACRAMENT...	SACRAMENT...	MHR	Sacramento	Sacramento	Metropolitan	2	METROPOLIT...	Reliever	02139 *A	3	John Pires	pires@sjacco...	916-875-6760	http://www.g...	38-555264	-121-29725	38-33-14.029N
45	POINT (-121...	SACRAMENT...	SACRAMENT...	SMF	Sacramento	Sacramento	Commercial...	1	PRIMARY-ME...	Commercial...	02124 2*A	3	Sheri Thompson	thompsonsd...	916-874-6760	http://www.g...	38-695417	-121-590778	38-41-43.551N
44	POINT (-121...	SACRAMENT...	SACRAMENT...	SAC	Sacramento	Sacramento	Metropolitan	2	METROPOLIT...	Reliever	02127 *A	3	John Pires	pires@sjacco...	916-875-6760	http://www.g...	38-512528	-121-493472	38-30-45.080N
43	POINT (-121...	ROUND VALL...	ROUND VALL...	009	Covelo	Mendocino	Community	4	COMMUNITY...	General Aviat...	01458 *A	1	Howard Das...	das@mendoc...	707-463-4363	http://www.g...	39-7905	-122-266333	39-47-24.556N
42	POINT (-121...	RIO VISTA M...	RIO VISTA M...	088	Rio Vista	Solano	Regional	3	REGIONAL...	General Aviat...	02110 5*A	3	Ronald Hickey	rthickey@r.i...	707-374-645	http://www.g...	38-193389	-121-703639	38-11-36.000N
41	POINT (-121...	RIO LINDA A...	RIO LINDA	E16	Rio Linda	Sacramento	Community	4	COMMUNITY...	Not a NPIAS...	02113 4*A	3	William Mac...	mac@rivalco...	916-991-1725	http://www.g...	38-675	-121-445444	38-40-29.550N
40	POINT (-121...	RED HILLVIEW	RED HILLVIEW	RHV	San Jose	Santa Clara	Metropolitan	2	METROPOLIT...	Reliever	02092 *A	4	Eric Peterson	eric@county...	408-918-7722	http://www.g...	37-332661	-121-819806	37-19-58.300N
39	POINT (-121...	RANCHO MU...	RANCHO MU...	RIU	Rancho Mari...	Sacramento	Community	4	COMMUNITY...	General Aviat...	02078 751*A	3	Stan Buccom...	rancho@commu...	916-354-2940	http://www.g...	38-486778	-121-102778	38-28-08.673N
38	POINT (-122...	PETALUMA M...	PETALUMA M...	069	Petaluma	Sonoma	Regional	3	REGIONAL-B...	Reliever	02042 *A	4	Bob Patterson	bpatterson@...	707-778-4404	http://www.g...	38-257778	-122-653333	38-15-28.197N
37	POINT (-122...	PALO ALTO A...	PALO ALTO	PAO	Palo Alto	Santa Clara	Metropolitan	2	METROPOLIT...	Reliever	02022 *A	4	Andrew Swa...	andrew.swa...	650-329-2444	http://www.g...	37-461111	-122-115056	37-27-40.030N
36	POINT (-123...	OCEAN RIDG...	OCEAN RIDGE	E55	Gualala	Santa Claus	Community	4	COMMUNITY...	Not a NPIAS...	01635 85*A	1	Julie Bowser	julie@bowser...	707-884-3579	http://www.g...	38-061611	-123-530639	38-48-04.676N
35	POINT (-120...	OKADALE MA...	OKADALE MA...	027	Oakdale	Stanislaus	Community	4	COMMUNITY...	General Aviat...	01970 *A	10	Michael Reef...	MReef@owc...	206-845-3640	http://www.g...	37-756333	-120-800194	37-45-52.841N
34	POINT (-121...	NUT TREE AL...	NUT TREE	VCB	Vacaville	Solano	Regional	3	REGIONAL-B...	General Aviat...	02289 1*A	4	Dave Davi...	airport@pola...	707-469-4603	http://www.g...	38-377778	-121-961583	38-22-36.306N

# Intended Audience {

- Laypeople and common public.
  - Sky diving lessons
  - Photographers
  - Learning to fly
  - Flight planning logistics

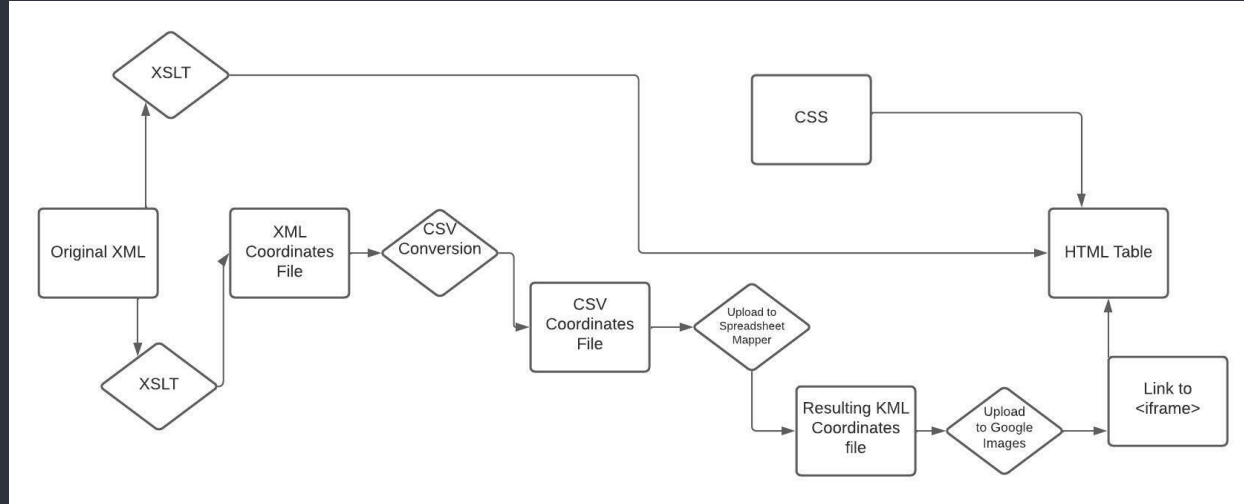
}

# Design Changes {

- Simplify
  - Eliminate jargon (e.g., ObjectID, shape)
  - Condense dataset
    - Too many longitudinal and latitudinal columns
- Restore functionality
  - Broken website links replaced with Google Maps links
- Increase usability
  - Providing CSS to make table more visually appealing
  - Google Maps is more convenient for common person than GIS coordinates

}

# Workflow {



}

# Conversion to HTML

<https://josh-ko.github.io/final%20project/>

```
airplanes.html x Airplanes2.xslt x
xsl:stylesheet xsl:template tr td a xsl:attribute
1 <?xml version="1.0" encoding="UTF-8"?>
2 <xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
3   xmlns:xs="http://www.w3.org/2001/XMLSchema"
4   exclude-result-prefixes="xs"
5   version="2.0">
6
7   <xsl:output indent="yes" />
8
9   <xsl:template match="/">
10     <html>
11       <head>
12         <link href="/final project/Final_css.css" rel="stylesheet" type="text/css"/>
13         <title>California Airports, 2020</title>
14       </head>
15       <body>
16         <h1>California Airports, 2020</h1>
17         <xsl:call-template name="airport_table" />
18       </body>
19     </html>
20   </xsl:template>
21
22   <xsl:template match="response" name="airport_table">
23
24     <table>
25       <tr>
26         <th>Facility</th>
27         <th>City</th>
28         <th>County</th>
29         <th>AirportID</th>
30         <th>FAA Site Number</th>
31         <th>State Class</th>
32         <th>FAA Class</th>
33         <th>Phone Number</th>
34         <th>Manager Name</th>
35         <th>Email</th>
36         <th>Location</th>
37       </tr>
38       <xsl:apply-templates select="response/row/row" />
39     </table>
40   </xsl:template>
41
42   <xsl:template match="response/row/row">
43     <tr>
44       <td><xsl:value-of select="facility" /></td>
45       <td><xsl:value-of select="city" /></td>
46       <td><xsl:value-of select="county" /></td>
47       <td><xsl:value-of select="airportid" /></td>
48       <td><xsl:value-of select="faasitenr" /></td>
49       <td><xsl:value-of select="stateclass" /></td>
50       <td><xsl:value-of select="faasrvcl" /></td>
51       <td><xsl:value-of select="phone" /></td>
52       <td><xsl:value-of select="manager" /></td>
53       <td><a<xsl:attribute name="href"><xsl:value-of select="concat('mailto:', mngremail)"/></a><xsl:attribute name="href"><xsl:value-of select="concat('https://www.google.com/maps/search/?api=1&query=', latdd, '°2c', longdd)"/></a></td>
54     </tr>
55   </xsl:template>
56 </xsl:stylesheet>
```

# Creation of External CSS {

```
4     color: black;
5 }
6
7 a:link {
8     color: darkblue;
9 }
10
11 a:hover {
12     color: white;
13 }
14
15 table, th, td {
16     border: 2px solid black;
17 }
18
19 th, td {
20     padding: 8px;
21 }
22
23 table {
24     border-collapse: collapse;
25     margin-left: auto;
26     margin-right: auto;
27     width: 100%;
28 }
29
30 th {
31     background-color: Gold;
32     position: sticky;
33     top: 0;
34 }
35
36 tr:hover td {
37     background-color: Gold !important;
38 }
39
40
41 td:nth-child(even) {
42     background-color: AliceBlue;
43 }
44
45 td:nth-child(odd) {
46     background-color: WhiteSmoke;
47 }
48
49 iframe {
50     display: block;
51     margin-left: auto;
52     margin-right: auto;
53     max-width: 1350px;
54     max-height: 600px;
55 }
```



# Creation of Embedded Google Maps {

- Create XSLT of just airport name, latitude, and longitude entities.
  - Convert XML output into CSV
  - Upload CSV to Google Spreadsheet Mapper V3
  - KML result then uploaded into Google Maps
  - Incorporate the iframe into your html page

```
800 <td>Angwin</td>
801 <td>Angwin</td>
802 <td>Map</td>
803 <td>203</td>
804 <td>01244.8*A</td>
805 <td>COMMUNITY</td>
806 <td>Not a NFIS Facility</td>
807 <td>707-965-6219</td>
808 <td>Geoffery Hilton</td>
809 <td><a href="mailto:gfhilton@puc.org">gfhilton@puc.org</a></td>
810 <td><a href="https://www.google.com/maps/search/?api=1&query=38.580028&2c-122.435472">Map Link</a></td>
811 </tr>
812 </table>
813 <iframe src="https://www.google.com/maps/d/u/0/embed?mid=1005q-F5XW67qPaT0Qq8GWZFPQ5zo7w5H&ehbc=2E312F" ></iframe>
814 </body>
815 </html>
```

}

# Highlights {

- Utilized concatenate function with Google Maps and longitude/latitude data to form links.
- New CSS makes data easier to digest.
- Embedded Google Maps provides visual to data.

<https://josh-ko.github.io/final%20project/airplanes.html>

}