
Web App: Exploring the National and State Parks of California

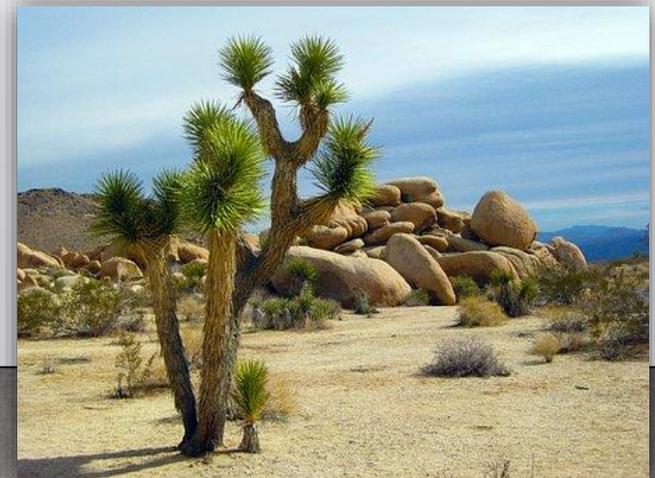
Web GIS, Geog 385

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A Little About the App...

- Designed to help with travel planning to California National and State Parks
- Included Layers:
 - California National Parks and Boundaries
 - California State Parks
 - Major Highways
 - Major Airports
 - Rail Road Stations



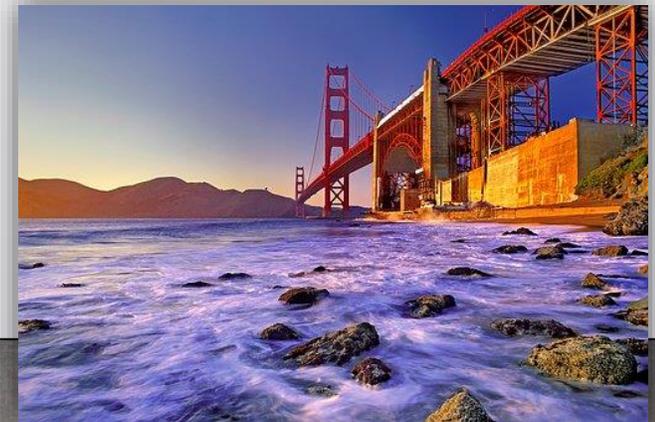
Building the App

- Widgets:

- Splash
- Header
- Print
- Filter
- Basemap

- Anchor Bar Widgets

- Directions
- NearMe
- Measurement
- Select
- Attribute Table
- Infographic
- Group Filter



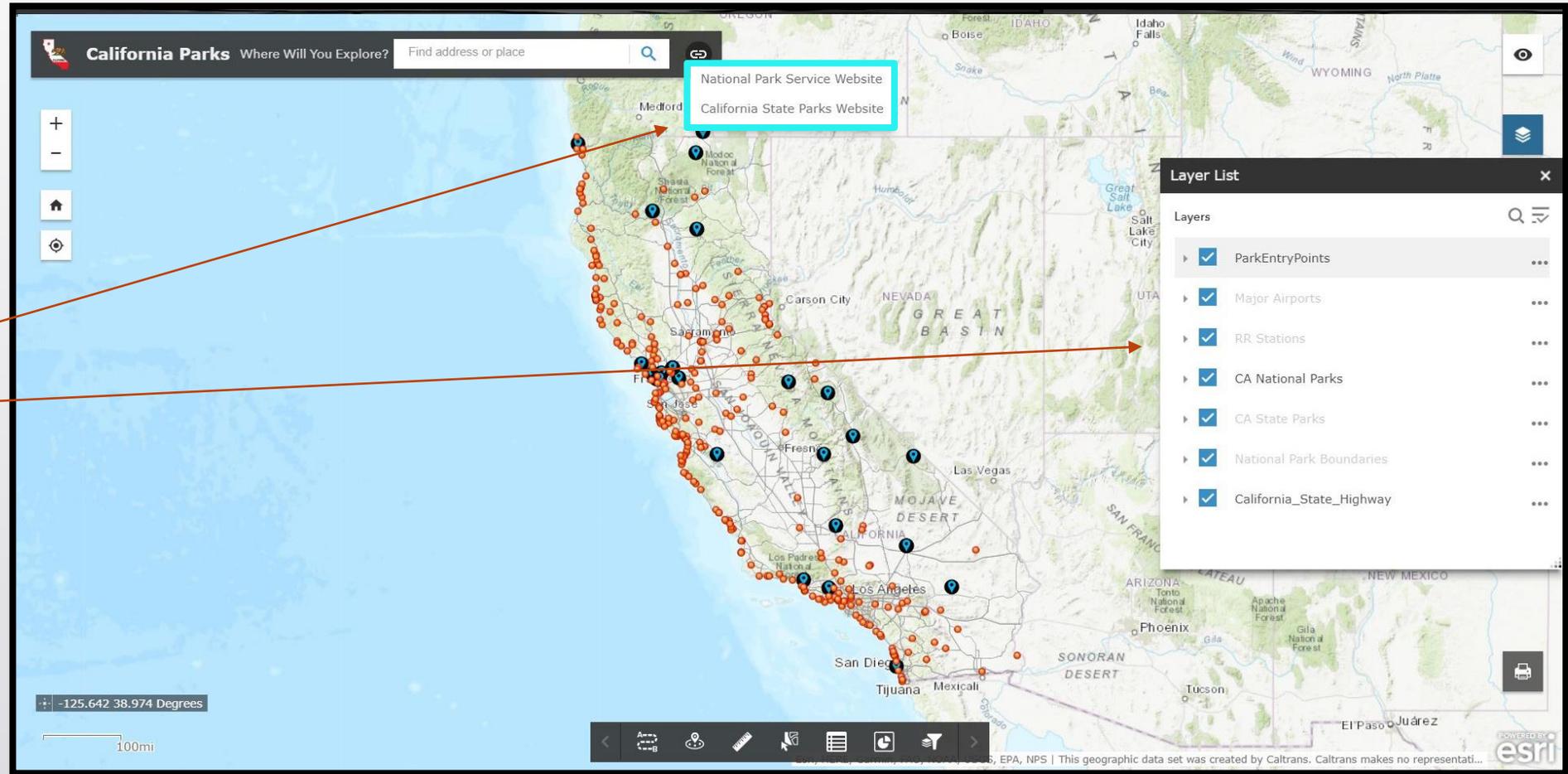


Splash Widget

Intro screen to the App.
Mine was not intended
to be instructional, but
inspirational



A Few Basic Widgets



- Website Links
- Layer List

Filter Widget

- Filter created for four layers:
 - CA National Parks
 - Park Type
 - Park City
 - CA State Highway
 - Highway Number
 - Major Airports
 - Airport City
 - Public Transportation Depot's
 - Station Type
 - CA State Parks
 - Park Name
 - Park City

The screenshot shows a 'Filter' widget with a close button (X) in the top right corner. It contains four filter sections, each with a toggle switch and a dropdown menu:

- CA National Parks:** Toggled on. Filter: 'ParkType is any of'. Dropdown: '0 selected'.
- California State Highway:** Toggled on. Filter: 'Highway number is any of'. Dropdown: '0 selected'. Below the dropdown is the text 'Enter Highway Number'.
- Major Airports:** Toggled on. Filter: 'City starts with'. Input field: 'Sacramento'.
- Public Transportation Depot's:** Toggled on. Filter: 'Station Type is any of'. Dropdown: '0 selected'. Below the dropdown is the text 'Bus, Train'. A filter icon (funnel with gear) is visible in the bottom right corner of this section.

Directions Widget

California Parks Where Will You Explore? Find address or place

Directions

1 1-1 Walsh Dr, Mill Valley, California, 94

2 880 Harbour Way S, Richmond, Cal

ADD

Driving Time

LEAVE NOW OPTIONS

GET DIRECTIONS

CLEAR

00:39 37 min typically
hr min 16.97 miles

-123.500 38.094 Degrees

6mi

USA, NPS | This geographic data set was created by Caltrans. Caltrans makes no representat...
POWERED BY **esri**

NearMe Widget

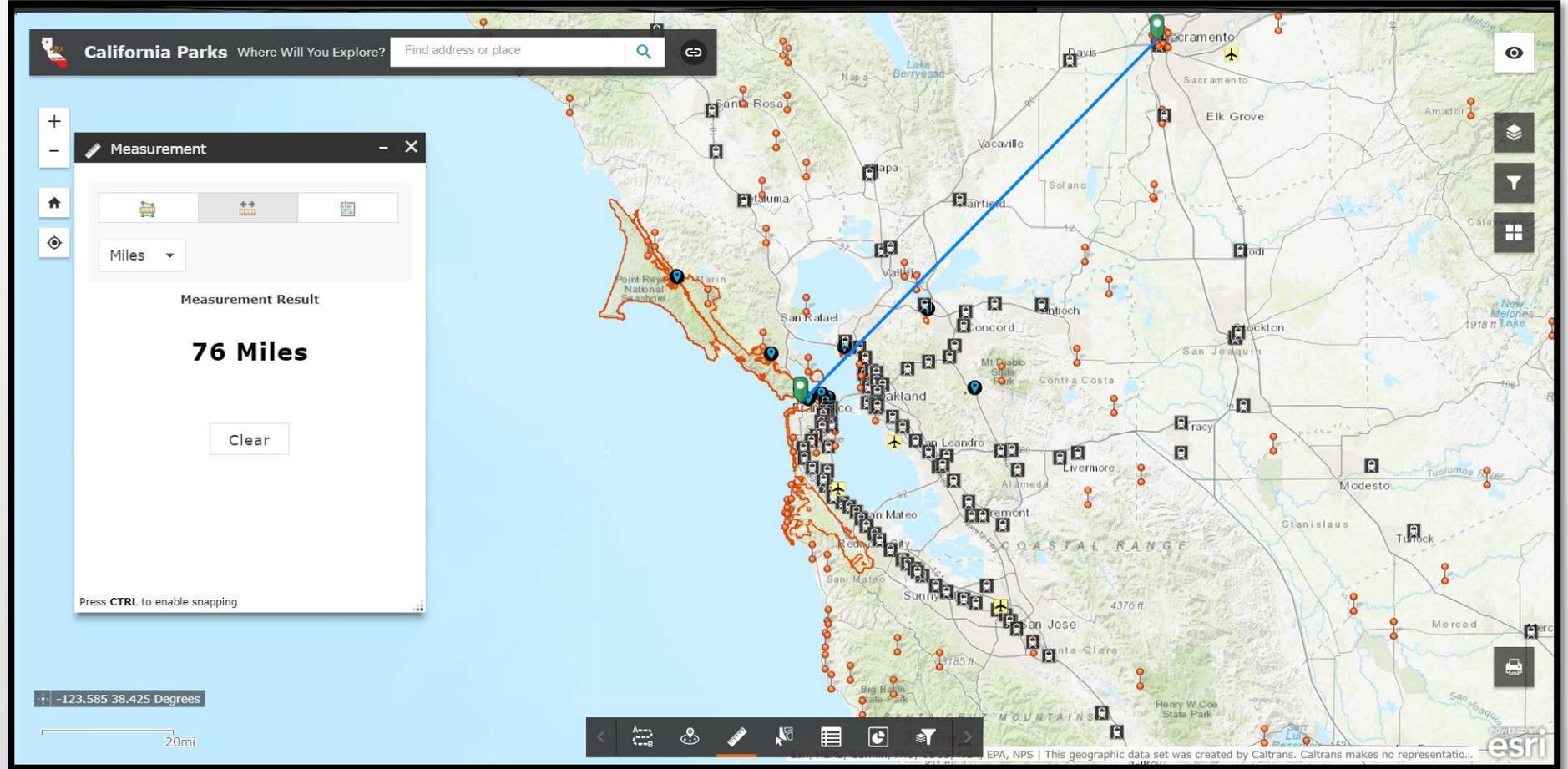
Provides list of layer points within 20 miles of "NearMe" location

The screenshot displays the 'NearMe' widget interface. At the top, there is a search bar with the text 'California Parks Where Will You Explore?' and a search input field containing 'Mason St, San Francisco, Calif'. Below the search bar is a 'Near Me' panel with a search input field containing 'Mason St, San Francisco, Calif' and a search button. A slider below the search bar is set to '20 Miles' and ranges from 0 to 100. Below the slider is a list of search results:

Major Airports	(2)	>
RR Stations	(44)	>
CA National Parks	(7)	>
National Park Boundaries	(6)	>
California_State_Highway	(63)	>

The map shows a large circular search area centered on Mason St, San Francisco, California, 94129. The map includes various geographical features, roads, and city names. The bottom of the map shows a scale bar for 6 miles and a coordinate display: -122.864 37.903 Degrees. The bottom right corner of the map features the Esri logo and the text 'POWERED BY esri' and 'USDA, NPS | This geographic data set was created by Caltrans. Caltrans makes no representat...'

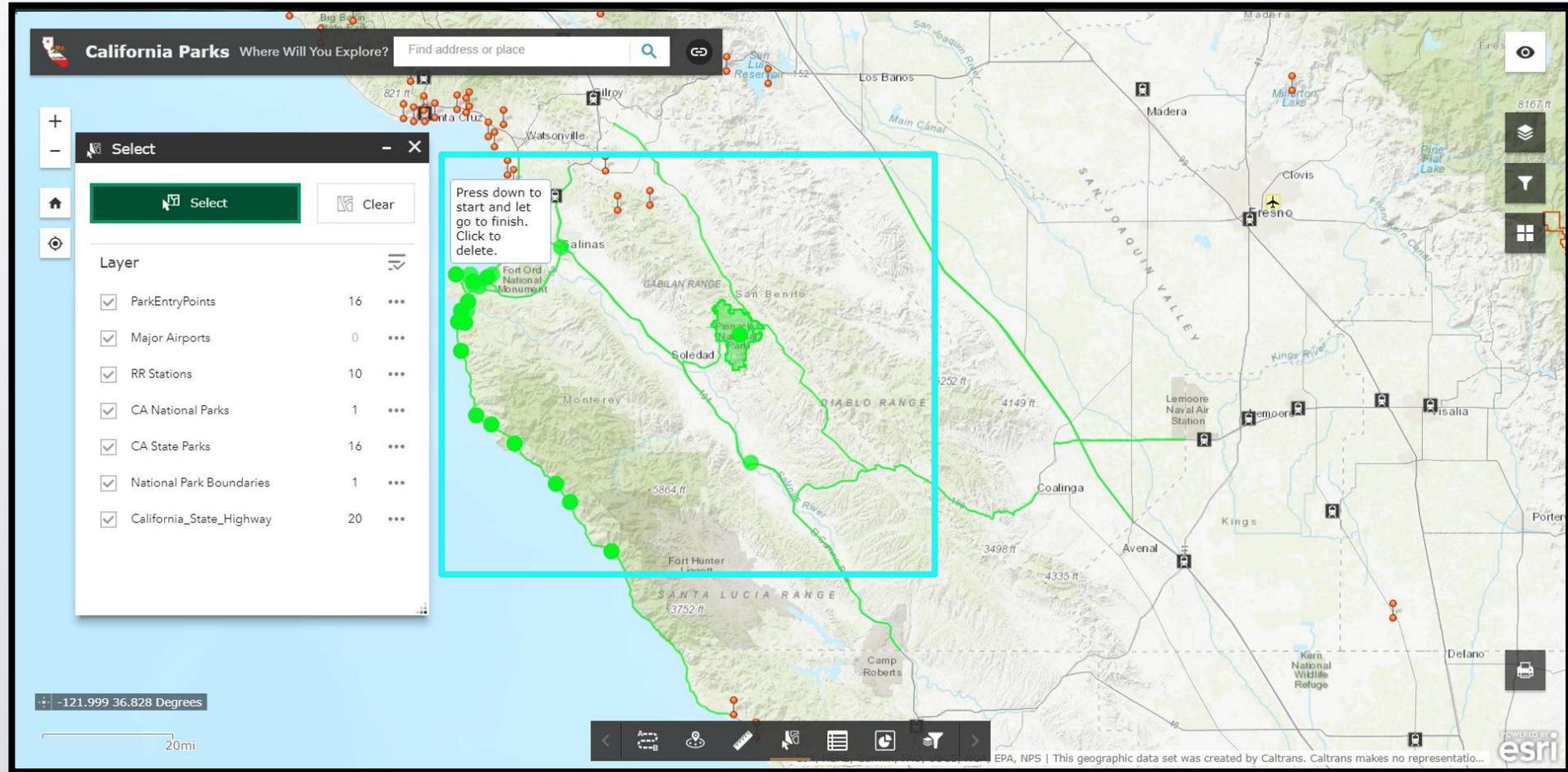
Measurement Widget



Measures distance between two points

Select Widget

Draw boundary to determine what layers lie within it



Attribute Table

- Provides list of details for each map layer.
- Helps user with filter queries

The screenshot shows a web application interface for "California Parks". At the top, there is a search bar with the text "Where Will You Explore?" and "Find address or place". Below the search bar is a map of California with several orange markers indicating park locations. The map includes a scale bar for 20 miles and a coordinate display showing "-121.949 36.946 Degrees".

Below the map is a navigation menu with tabs for "ParkEntryPoints", "Major Airports", "RR Stations", "CA National Parks" (which is selected), "CA State Parks", "National Park Boundaries", and "California_State_Highway". There are also buttons for "Options", "Filter by map extent", "Zoom to", "Clear selection", and "Refresh".

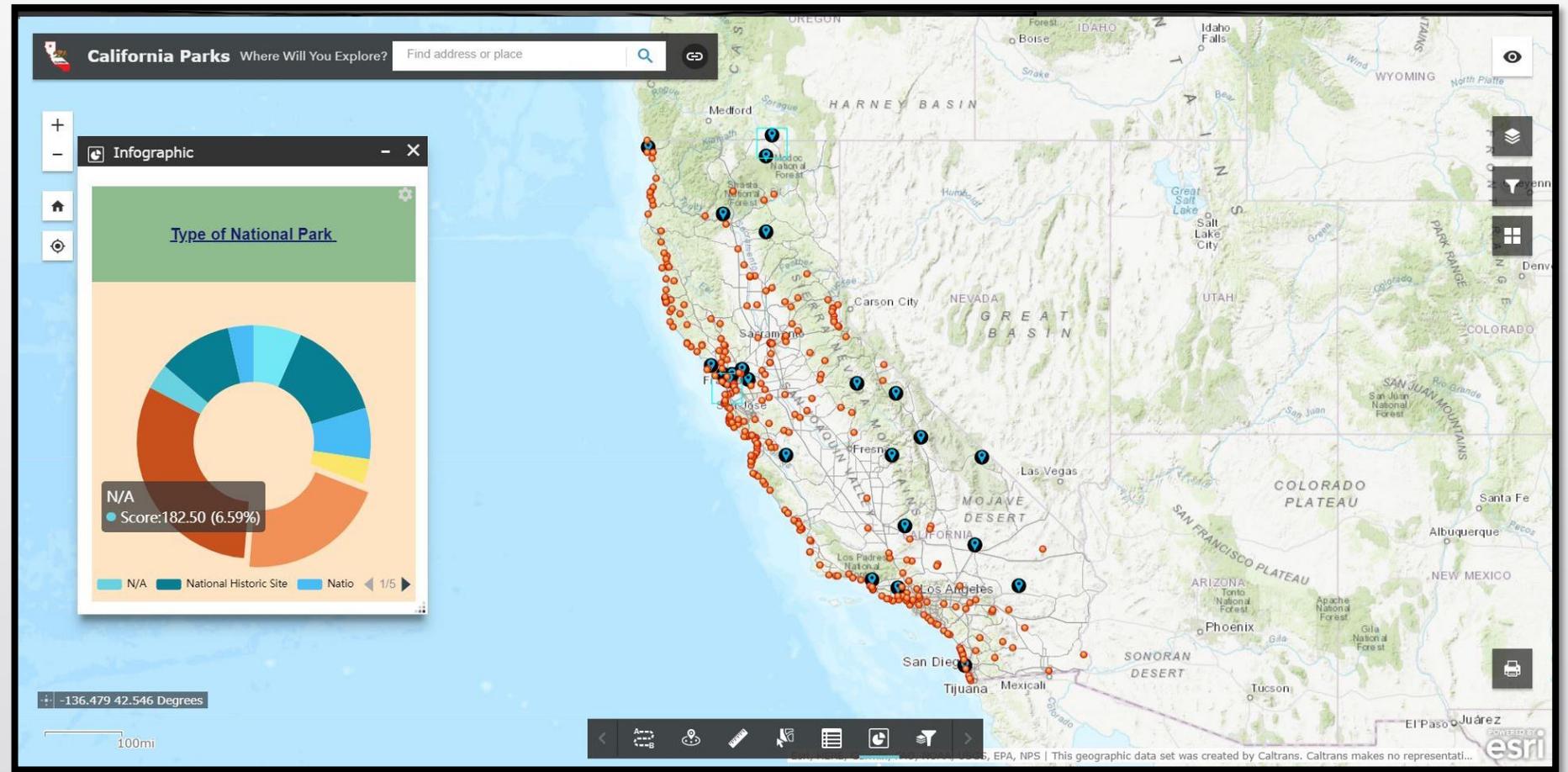
The attribute table below the map displays the following data:

ParkName	ParkAddress	ParkCity	ParkState	ParkZip	ParkType	ParkAvgFees	ParkWebsite
Alcatraz Island	Pier 33 Alcatraz Landing	San Francisco	California	94,111	National Park	37.25	https://www.nps.gov/alca/pk
Cabrillo	1800 Cabrillo Memorial Drive	San Diego	California	92,106	National Monument	15.00	https://www.nps.gov/cabr/pl
Castle Mountains	2701 Barstow Road	Barstow	California	92,311	National Monument	0.00	https://www.nps.gov/camo/p
Cesar E. Chavez	29700 Woodford-Tehachapi Road	Keene	California	93,531	National Monument	0.00	https://www.nps.gov/cech/pl
Channel Islands	1901 Spinnaker Drive	Ventura	California	93,001	National Park	0.00	https://www.nps.gov/chis/pl
Death Valley	328 Greenland Boulevard	Death Valley	California	92,328	National Park	0.00	https://www.nps.gov/deva/pl
Devils Postpile	Devils Postpile Access Road	Mammoth Lakes	California	93,546	National Monument	0.00	https://www.nps.gov/depo/p
Eugene O'Neill	205 Railroad Avenue	Danville	California	94,526	National Historic Site	0.00	https://www.nps.gov/euon/p
Fort Point	Marine Drive	San Francisco	California	94,129	National Historic Site	0.00	https://www.nps.gov/fopo/pl
Golden Gate	Golden Gate Bridge	San Francisco	California		National Recreation Area	0.00	https://www.nps.gov/goga/p
John Muir	4202 Alhambra Avenue	Martinez	California	94,553	National Historic Site	0.00	https://www.nps.gov/jomu/p
Joshua Tree	74485 National Park Drive	Twentynine Palms	California	92,277	National Park	30.00	https://www.nps.gov/jotr/pla
Larsen Volcanic	38050 Hwy 36 E	Mineral	California	96,063	National Park	25.00	https://www.nps.gov/lavo/pli
Lava Beds	1 Indian Well HO	Tulelake	California	96,134	National Monument	20.00	https://www.nps.gov/lave/nl

At the bottom of the table, it indicates "29 features 0 selected".

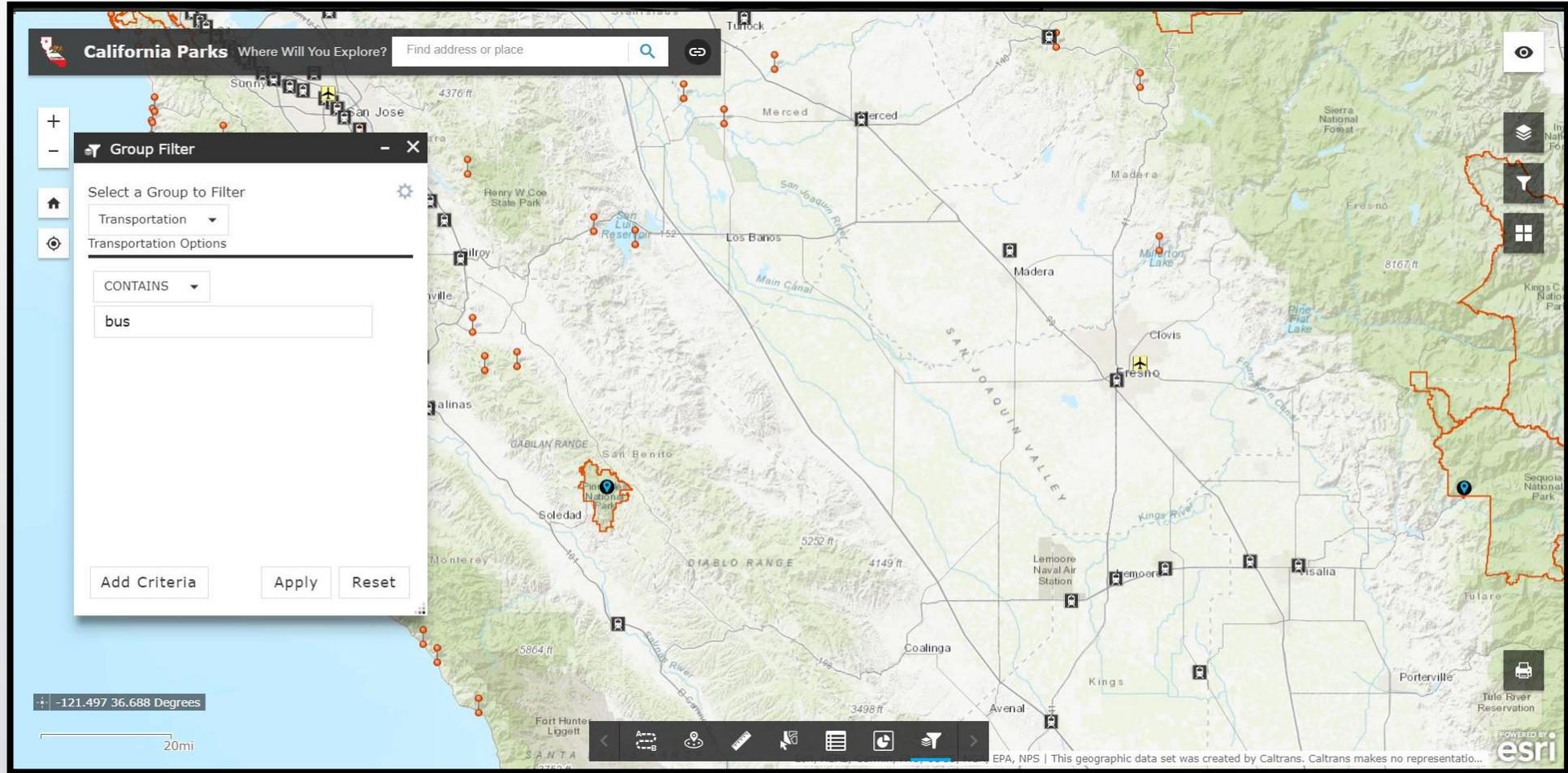
Infographic Widget

- Graphic display of National Park Types.
- Interactive with map when selected



Group Filter

Transportation layers were grouped together and Park layers were grouped together for searching capabilities





Web App Success!

- Created National Park Layer on my own
- Continued to add layers as I developed the App and found a need for additional information
- Easy to get caught up in the details of the App features – time consuming (color, style, placement)
- Discovered not all layers are compatible with App features, even if they are feature layers from a reliable source
- Value the work of professional web app developers (this was fun, but not something I would want to do all of the time!)