



Getting Started With Google Maps

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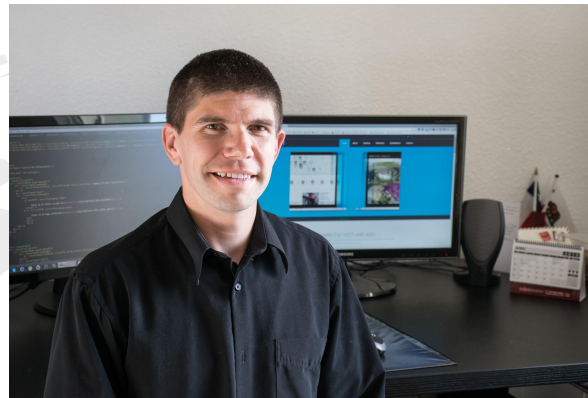


Why this talk?

- Google Maps is extremely popular
- Yet not many developers work with it
- Maps seem to be complex, but Google Maps API is not
- It's just fun to learn how to develop something that looks great and is useful!

Why me doing this talk?

- Java developer since 2006
- Angular JS addict since 2011
- Web consultant / trainer since 2012
- Organizer of the Sacramento Angular Meetup group since 2014
- **Work with Google Maps since... 2007!**



Some of my portfolio items

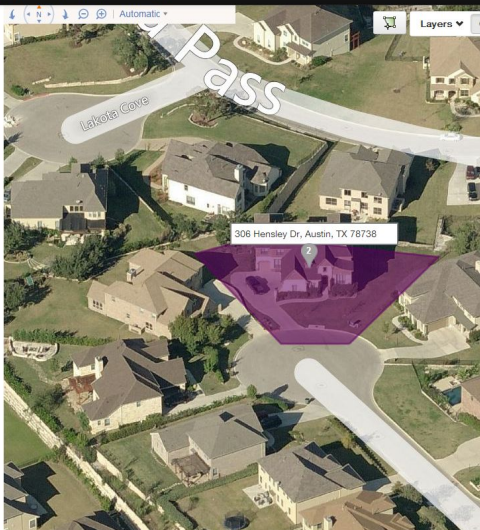
Logo Print Identify property To compare (3) Saved lists (3) Feedback? Log out

Select your city ▼

7 properties in total found
0 properties hidden show all
Save entire results for later

Individual properties


- 5309 Scenic View Dr, Austin, TX 78746
Single family
in 1 lists Compare
- 306 Hensley Dr, Austin, TX 78738
Single family
in 1 lists Compare
- 232 Estate Drive, Hutto, TX 78634
Multi family
in 1 lists Comparing
- 100 Wren Cove, Hutto, TX 78634
Single family
in 2 lists Comparing
- 1513 Amelia Dr, Cedar Park, Austin, TX 78613
Hotel
in 0 lists Comparing
- 5902 Glenholow Path, Austin, TX 78745
Single family
in 3 lists Compare
- 5806 Glenholow Path, Austin, TX 78745
Single family
in 0 lists Compare



facebook Trouvez des personnes, des lieux ou d'autres choses

Alain Chaudard Retrouver

Masters Home Improvement Store Locator

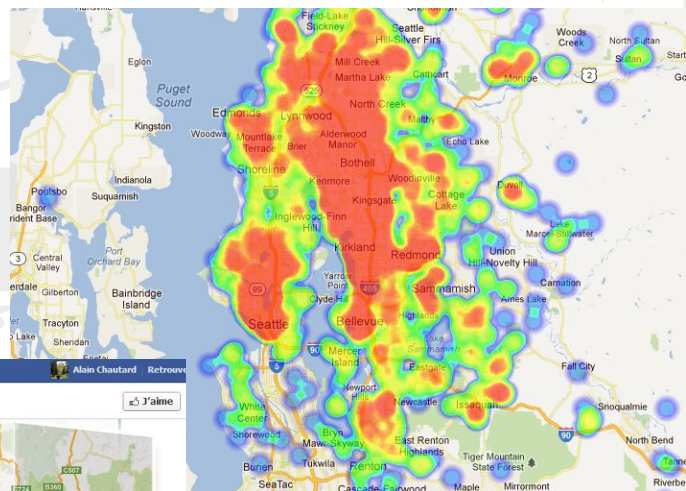


Your search for postcode 3333 found 8 stores.

1 Burnside
66.6 km away [View store details](#)

2 Braybrook
74.7 km away [View store details](#)

3 Roxburgh Park



What does a Map developer do?

- Add layers of data and features to a map
- Markers, polygons and filters
- Example apps: Store locator, Real estate website, Travel website, etc.
- A more creative use case:
<https://vimeo.com/101128770>

Some code, please

- The “Hello world” of Google Maps:

<https://developers.google.com/maps/documentation/javascript/examples/map-simple>

- One script to import, some CSS, one div, 3 lines of JS and you're good to go

What about adding a marker?

- <https://developers.google.com/maps/documentation/javascript/examples/marker-simple>
- One script to import, some CSS, one div, 3 lines of JS and you're good to go

Custom icons

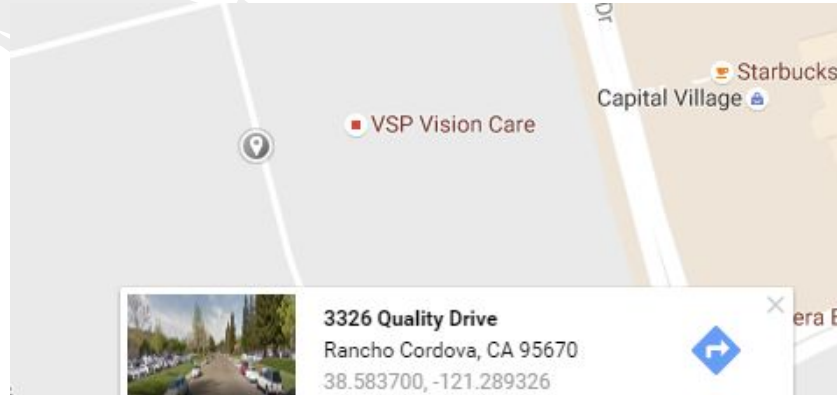
- <https://developers.google.com/maps/documentation/javascript/examples/icon-complex>
- Just an image URL is enough to customize an icon

What about some interactions?

- Open an info-window when marker is clicked:
<https://developers.google.com/maps/documentation/javascript/examples/infowindow-simple>

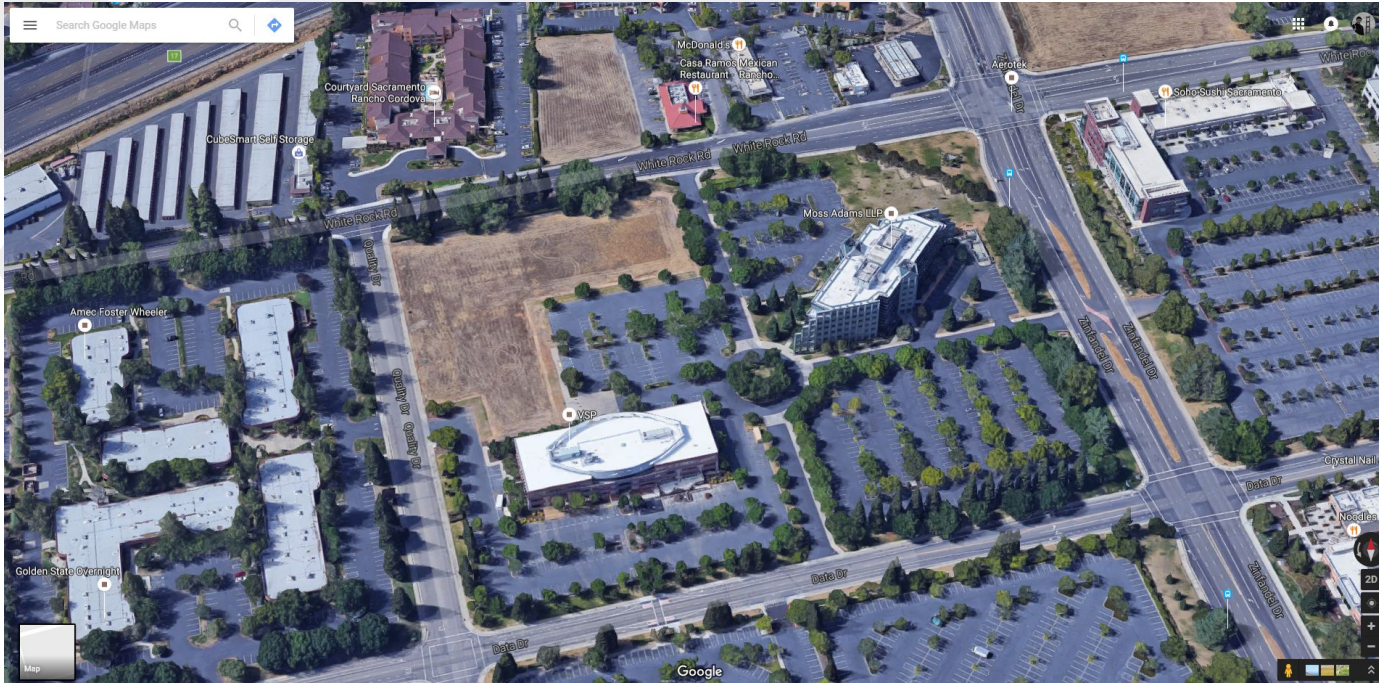
Lesser known Google Maps features (a.k.a. power user tips)

- How to get the latitude / longitude of any place on the planet?



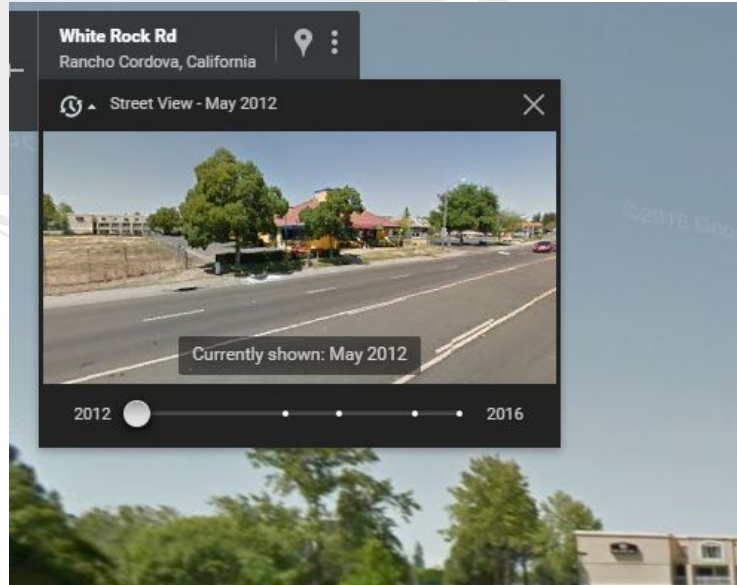
Lesser known Google Maps features (a.k.a. power user tips)

- 3D view + tilt



Lesser known Google Maps features (a.k.a. power user tips)

- Street view history



Back to Google Maps Javascript API

- Google Maps API is not maps.google.com
- Example: http://siascotch.com/retailers/
- Some features are specific to maps.google.com and you can't have them on your own map (yet)
- Official API reference:
<https://developers.google.com/maps/documentation/javascript/3.exp/reference>

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Useful services

- Geocoding
- Places
- Directions

(<https://developers.google.com/maps/documentation/javascript/directions>)

- Distance matrix

Shapes

- Google Maps API allows us to draw shapes (paths, polygons, etc.) on the map:

<https://developers.google.com/maps/documentation/javascript/shapes>

Drawing on the map

- Google Maps API allows the end user to use a Drawing Manager to get creative:

<https://jsfiddle.net/api/post/library/pure/>

Styling the map

- It is also possible to customize the display of the map tiles (labels, roads, mountains, etc.)
- Some websites offer predefined styles that you can use: <https://snazzymaps.com/>
- There is also a wizard to help you design your own styles:
<https://googlemaps.github.io/js-samples/styledmaps/wizard/>

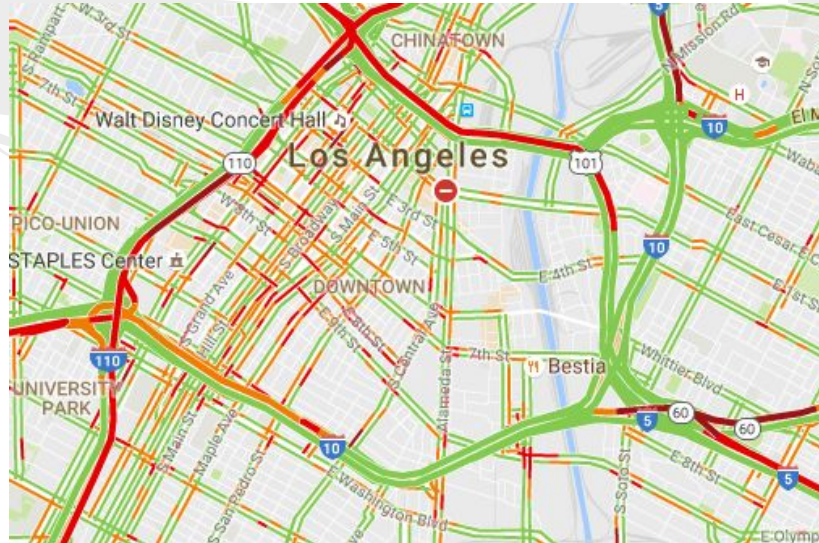
Lesser known Google Maps features (a.k.a. power user tips - part #2)

- Indoor maps for stores and buildings



Lesser known Google Maps features (a.k.a. power user tips - part #2)

- Traffic and directions, traffic predictions and transit data (also available in the API)



Angular 2 Google Maps

- <https://angular-maps.com/> (alpha version)
- Components and directives to make it easy to create Maps with Angular 2
- All it does now is display a map, markers and info windows (marker pop-ups) for now

Let's take a look at some code

- <http://plnkr.co/edit/YX7W20?p=preview>
- Components with inputs and outputs
- Some CSS is always required with Google Maps

Angular Google Maps

- An Angular 1 library:

[`https://angular-ui.github.io/angular-google-maps/#!/`](https://angular-ui.github.io/angular-google-maps/#!/)

- The API is much bigger, with polygons, layers and many more Map possibilities covered
- Could be used with Angular 2 through ng-upgrade

Thank you!

