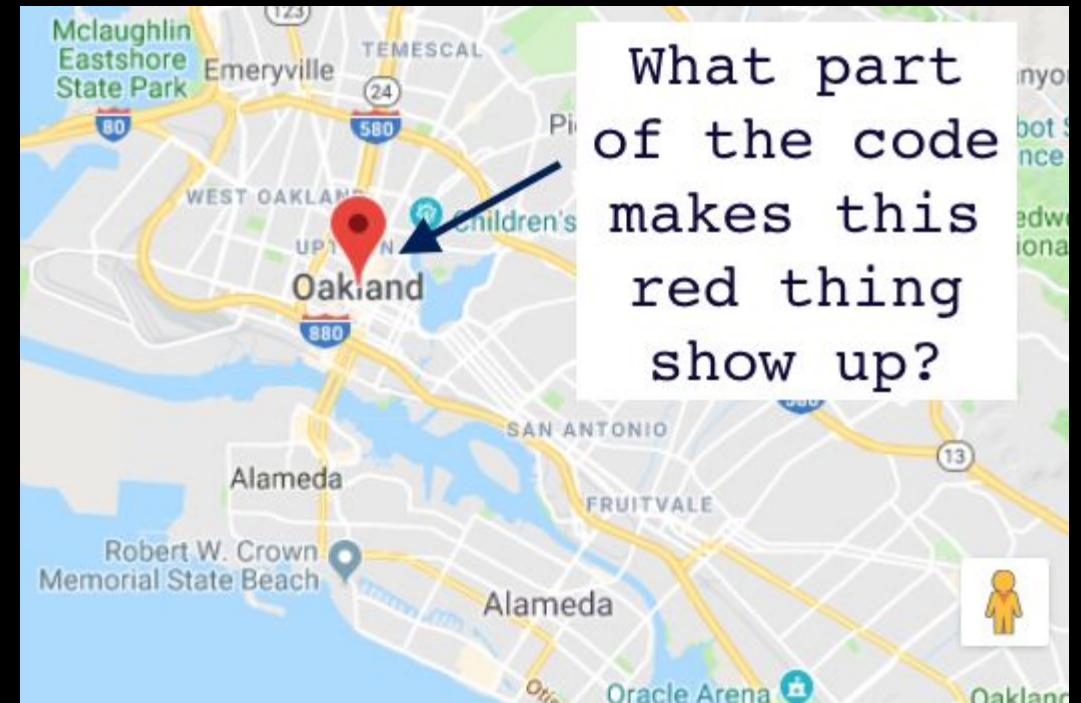


Do Now

- 1) Log in to Codepen.io
- 2) Go to bit.ly/DoNowMap and click **FORK** to save a copy in your Codepen account.
- 3) Explore the code.
- 4) Answer this question →
- 5) Create one of those things for San Leandro
- 6) Set the center of the map in between the two red things.



JavaScript: APIs



Definition

- **API**: Application Programming Interface
- An API is a set of programming instructions that a software company will provide so that we may create our own apps that are powered by their service.

Example from yesterday (Do not write this down)

- Which API did we use last class session?
 - Google Maps
- Google Maps is a software application
- We embedded Google Maps software in our own software application
- The API contains the documentation and code that Google provides for us to use.

Example from yesterday (Do not write this down)

- Why would Google do this?
 - If I implement Google's software on my app, then if I get a new customer, Google gets a customer too.

Example from yesterday (Do not write this down)

- Why would I want to use Google's stuff?
 - Because if someone else already created a powerful tool, it's easier to borrow theirs than invent my own.
 - I can provide tools that someone already uses
 - There's no need for them to use Google separately if they can do it from my app.

Another Example

(Do not write this down)

- A lot of people use Google Calendar for scheduling
- I have a place on my website that allows you to schedule a meeting with me
- With Google's API, I can have my website talk to Google's Calendar servers and create an event on mine and their calendars without my users needing to leave my website.

How to Use APIs (Write this Down)

1. Determine what you want to create
2. Find a company that already provides the tools
3. Get an API key (special code for you only)
4. Read their documentation and sample code for what you want to do
5. Add their code to your app and adjust it as necessary to fit your project.

New Project

- Your-Choice App or Website
- Come up with an original idea and create it.
- Can be anything you want, but you should challenge yourself and look for ways to use **EVERYTHING** you have learned this year.
- Make it the best project in your portfolio.