# GEOCODING IS - MAGICI-

#### **Using Mapzen Search on a web map**



Rhonda Glennon, @rmglennon Katie Kowalsky, @katiekowalsky Diana Shkolnikov, @dianashk



## YOU'RE GOING TO LEARN

- What is geocoding?
- Where **OpenStreetMap** meets geocoding
- How to build a web map with search using Mapzen.js
- Ways to customize your geocoder



# IS A PRODUCT MADE BY MAPZEN THAT ALLOWS PEOPLE TO ADD SEARCH TO A MAP.

Searching on a map is so common, we don't realize how magical it is!

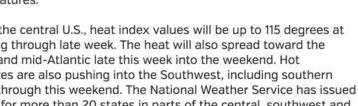




#### Dangerously Hot Temperatures Expected In Central U.S. as Massive Heat Dome Envelops Much of Country

A massive dome of high pressure in the upper atmosphere is gripping the nation's midsection this week, providing favorable conditions for dangerously hot temperatures.

In parts of the central U.S., heat index values will be up to 115 degrees at times during through late week. The heat will also spread toward the Northeast and mid-Atlantic late this week into the weekend. Hot temperatures are also pushing into the Southwest, including southern California, through this weekend. The National Weather Service has issued heat alerts for more than 20 states in parts of the central, southwest and eastern states.

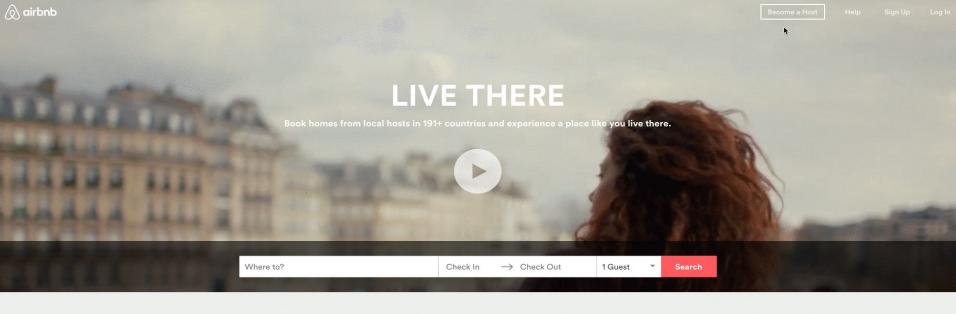




#### Be your own meteorologist.

Purchase a weather station.





#### **Meet Guidebooks**

Discover hundreds of local spots recommended by Airbnb hosts







Find tacos, cheap dinner, Max's

Near address, neighborhood, city, state or zip

Home About Me Write a Review Find Friends Messages Talk Events

Q

Sign Up Log In

#### Yelp San Francisco

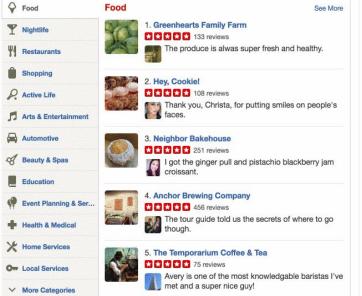
New York San Jose Los Angeles Chicago Palo Alto Oakland ▶ More Cities

#### Yelp is the best way to find great local businesses

People use Yelp to search for everything from the city's tastiest burger to the most renowned cardiologist. What will you uncover in your neighborhood?

**Create Your Free Account** 

#### Best of Yelp: San Francisco



#### Review of the Day



Adele F. wrote a review for Urban Putt

**★ ★ ★ ★** 12/12/2015

Truly mini mini-golf.

This place is great for both small group hangouts (groups of 4 max on the course, though it's not enforced) ... Read more

Archive

#### **Popular Events**



Midwayville - the Pop-Up Carnival Game World Friday, Jun 24, 7:00 pm -

Tomorrow, Jul 22, 11:30 pm 182 are interested

Fremont Summer Concert Series Thursday, Jul 7, 6:00 pm - Thursday, Aug 4, 8:00 pm

160 are interested



The Bill Murray Invitational. A Bill Murray Art Show and Golf Party Saturday, Jul 23, 7:00 pm 79 are interested

More Events

#### Fresh Lists



All Things Yelp Elite For street cred, refer to shiny red badges above.

11 businesses

48 businesses

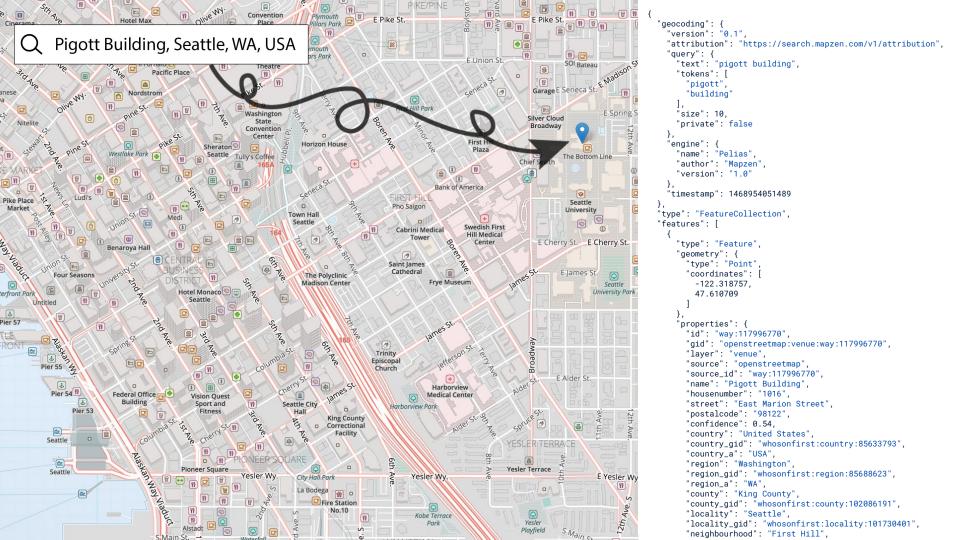


7x7's Big Eats, Sweets, Lunches + food from 7x7's 2011-2015 Big Eat / Sweet / Lunch / Veg lists

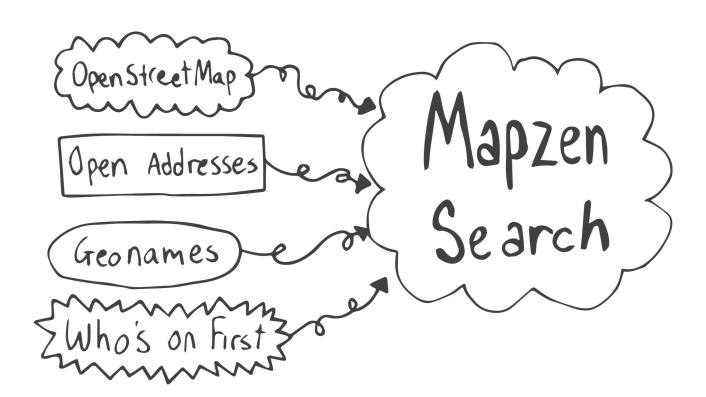
# WHAT'S THE MAGIC THAT MAKES IT WORK?

When we search for an address on a map, we're asking the search tool to take the address and convert it to geographic coordinates (lon, lat).

This process is called **geocoding**.



# OPENSTREETMAP & GEOCODING





WITH HTML/CSS & MAPZEN.JS

## INTRODUCING MAPZEN.JS

- An extension of Leaflet for using Mapzen products
- Has all the functionality of Leaflet with added features
- You can easily:
  - Make a map with Mapzen tiles
  - Add a geocoder
- Documentation here: https://mapzen. com/documentation/mapzen-js/

### LAYERS IN MAPZEN SEARCH

- You can filter not only by data source, but data type!
- Ranges in geographic hierarchy:
  - Venues
  - Neighborhoods
  - Locality
  - Boroughs
  - Region
  - Country



Follow along here: http://bit.ly/2aFyB1s

#### **Find us on Twitter!**

Rhonda Glennon, @rmglennon Katie Kowalsky, @katiekowalsky Diana Shkolnikov, @dianashk

