

# The evolution of a Shiny app with wine, beer, Python and R

Eleanor Chodroff

[eleanorchodroff.com](http://eleanorchodroff.com)



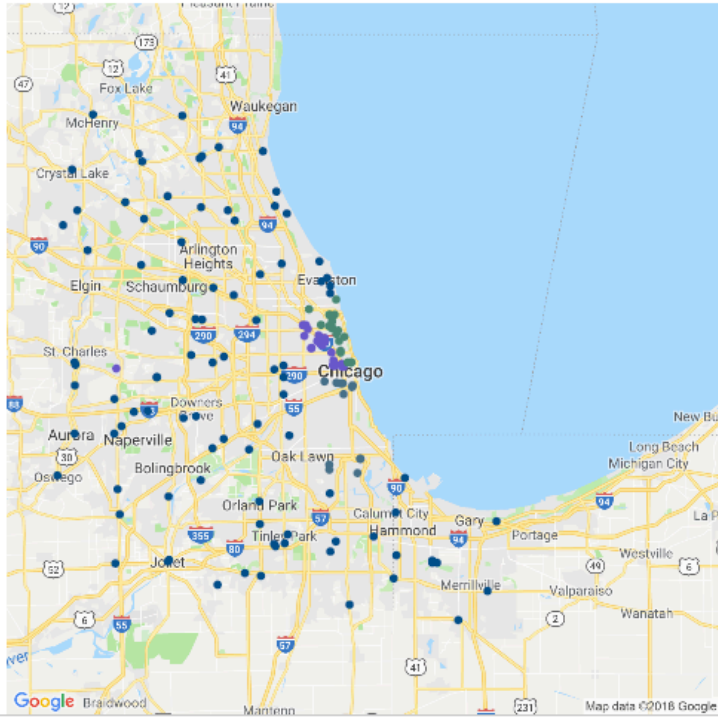
[github.com/echodroff](https://github.com/echodroff)



[@echodroff](https://twitter.com/echodroff)

# www.eleanorchodroff.com/apps/brews.html

## Chicagoland Breweries



Haymarket Pub & Brewery  
Chicago – West Loop  
kitchen & beer

### Region

- ☐ Chicago only
- ☒ Chicagoland+

### Options

- ☐ Tap Room
- ☐ Kitchen & Beer
- ☐ Tour

Show 10 entries

Search:

	brewery	address	city, state
1	18th Street Brewery – Hammond	5417 N. Oakley Ave.	Hammond, IN
2	18th Street Brewery – Gary	5725 Miller Ave.	Gary, IN
3	25 West Brewing Co.	2 Stratford Dr.	Bloomington, IL
4	350 Brewing Co.	7144 W. 183rd St.	Tinley Park, IL
5	3 Floyds Brewing Co.	9750 Indiana Pkwy.	Munster, IN
6	5 Rabbit Cerveceria	6399 W. 74th St.	Bedford Park, IL
7	51st Ward Brewing		Westmont, IL
8	6th Hour Brewing Co.		Hammond, IN

- One weekend
- 400+ wineries





## Napa/Sonoma Recommendations



File Edit View Insert Format Data Tools Add-ons Help



75%

View only



fx | Vineyard

	A	B	D	E	F	G	
1	Vineyard	City	Known for	Rec/notes	Website	Address	LK
2	Dutton Goldfield	Sebastopol (Russian River/Dry Creek)	Pinot Noir	This is a pretty well known place for Pinot Noir, and the guys at the tasting room are super friendly. The wines are a little pricey, but the tasting fee is reasonable.	<a href="https://www.duttongoldfield.com/">https://www.duttongoldfield.com/</a>	3100 Gravenstein Hwy N Sebastopol, CA 95472	
3	Cade	Angwin (Napa)	Sauvignon Blanc	Kelsey: great wines, epic view, appointment only so and they only take 12 people so call them soon to make an appointment// F&W: The views of the valley floor are glorious from this super-sustainable, LEED Gold-certified winery, located on Howell Mountain. Guests can taste Cade's superb Sauvignon Blanc in its chic outdoor living room.	<a href="http://www.cadewinery.com">www.cadewinery.com</a>	360 Howell Mountain Rd South Angwin, CA 94508	
4	O'Shaughnessy	Angwin (Napa)	Cabernet	Everything about Paul and Betty Wool's secluded, Cabernet-focused winery is state of the art, from the glass-and-stone cellar to the 11,000-square-foot cave drilled into the side of Howell Mountain. Yet the building manages to blend into its natural surroundings.	<a href="http://www.oshaughnessywinery.com">www.oshaughnessywinery.com</a>	Angwin, Ca	
5	Cuvaison	Calistoga	Syrah	Really fantastic Syrah and a great view of Carneros from the deck. This place is really special!	<a href="http://www.cuvaison.com/">www.cuvaison.com/</a>	4550 Silverado Trail N, Calistoga, CA 94515	
6	Larkmead	Calistoga		French Laundry Sommolier rec	<a href="https://larkmead.com">https://larkmead.com</a>	1100 Larkmead Ln, Calistoga, CA 94515	
7	Schramsberg	Calistoga	Blanc de blanc	A visit here includes a sampling of four sparkling wines (served at the White House on numerous occasions), a tour of the 125-year-old caves and a lesson in Champagne's méthode traditionnelle.	<a href="http://www.schramsberg.com">www.schramsberg.com</a>	1400 Schramsberg Rd, Calistoga, CA 94515	
8	Joseph Swan	Forestville (Russian River/Dry Creek)	Pinot Noir	One of the oldest wineries in the area, and they back-age their wines so you will taste older vintages of Pinot like 2007 and 2008.	<a href="http://www.swanwinery.com">www.swanwinery.com</a>	2916 Laguna Rd Forestville, CA 95436	
9	Dry Creek Vineyard	Healdsburg		Quintessentially Group rec	<a href="http://www.drycreekvineyard.com">http://www.drycreekvineyard.com</a>	3770 Lambert Bridge Rd, Healdsburg, CA 95448	
10	Porter Creek	Healdsburg	Pinot Noir, Syrah and Carignan.	My favorite winery in RR, with incredible Pinot (for a good price), Syrah and Carignan. It's also just a really cute, low key atmosphere.	<a href="http://www.portercreekvineyards.com">www.portercreekvineyards.com</a>	8735 Westside Rd Healdsburg, CA 95448	
11	Preston	Healdsburg	Rhone varietals (Carignan, Syrah, Grenache, Roussanne, Mourvedre)	This is a really great winery in Dry Creek that specializes in Estate Grown, organic Rhone varietals (Carignan, Syrah, Grenache, Roussanne, Mourvedre). They also have picnic grounds, and the tasting room is really cool.	<a href="http://prestonvineyards.com">prestonvineyards.com</a>	9282 W Dry Creek Rd Healdsburg, CA 95448	

# Weekend in Napa Valley

## Planning the itinerary

- “Scenic”, “views”, “pretty”
- Price
- Wine tasting availability
- Location (optimize the route)



# Design an app

## Optimize the itinerary:

- “Scenic”, “views”, “pretty
- Price
- Wine tasting availability
- Location (optimize the route)

**HARD**



## My skills:

- Know some R and Python
- Rudimentary R Shiny skills



# Feasible Shiny app:

- Map out wineries
- Subset by city/region
- Subset by keyword

→ Visualize the search process





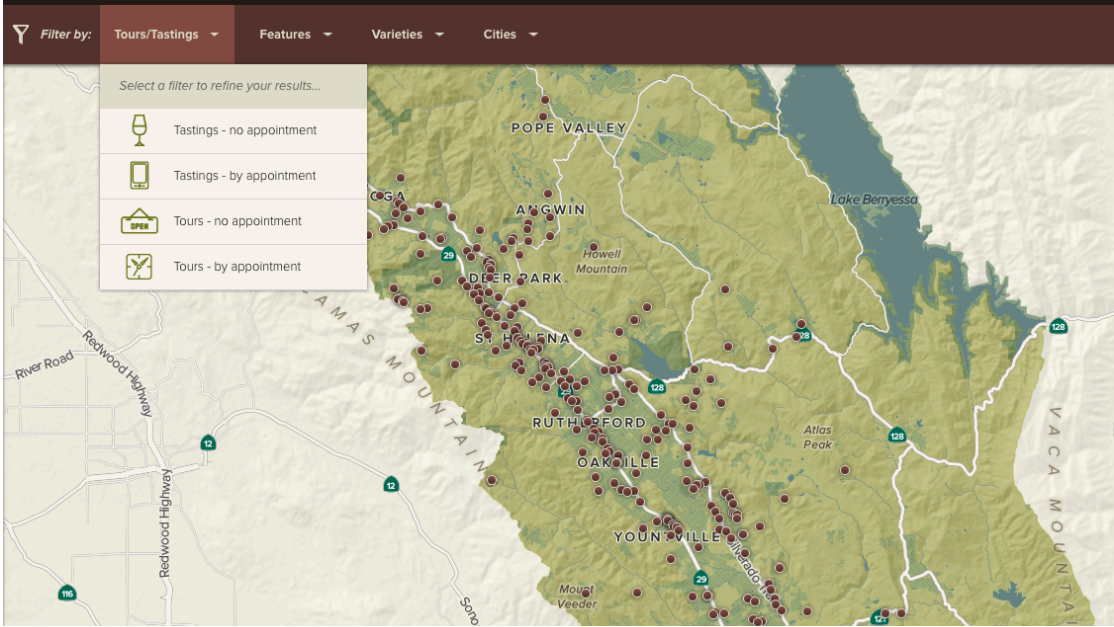
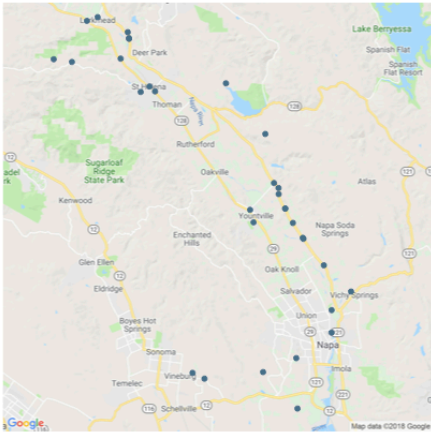
Creating a map in R:  
ggmap

Creating a map in R:  
ggmap

Obtaining geographic coordinates from addresses:  
Census Geocoder – U.S. Census Bureau

California wineries: Recommendations from some friends of friends

- Town:
- ☒ Angwin
  - ☒ Calistoga
  - ☒ Forestville
  - ☒ Healdsburg
  - ☒ Napa
  - ☒ Oakville
  - ☒ Rutherford
  - ☒ Santa Rosa
  - ☒ Sebastopol
  - ☒ Sonoma
  - ☒ St. Helena
  - ☒ Yountville



New plan:  
Brewery map

Goal:  
Proof of concept for myself



“scrape” beeradvocate.com

Create usable dataset with Python:

- Name of brewery
- Address
- Website
- Brewery features (tour, food, tap room)



## Beer Guide: Chicago, Illinois

Beer guide to breweries, brewpubs, bars, stores, events and festivals, and recent visits in the Chicago area.

Chicago, IL

view

### Breweries:

- **Saint Errant Brewing** - 1800 W. Cuyler Ave., Chicago
- **Dovetail Brewery** - 1800 W Belle Plaine Ave, Chicago
- **Pipeworks Brewing Company** - 3912 W McLean Ave, Chicago
- **Off Color Brewing** - 3925 W Dickens Ave, Chicago
- **Spiteful Brewing** - 2024 W Balmoral Ave, Chicago
- **Revolution Brewing** - 2323 N Milwaukee Ave, Chicago
- **Metropolitan Brewing** - 3057 N Rockwell Ave, Chicago
- **Corridor Brewery & Provisions** - 3446 N Southport Ave, Chicago
- **Lagunitas Brewing Company** - 1843 S Washtenaw Ave, Chicago
- **Half Acre Beer Company** - 4257 N Lincoln Ave, Chicago
- **Marz Community Brewing** - 3630 S Iron St, Chicago
- **Cervecería Cruz Blanca** - 904 W Randolph Ave, Chicago
- **Maplewood Brewery & Distillery** - 2717 N Maplewood Ave, Chicago
- **Illuminated Brew Works** - 415 N Sangamon St, Chicago
- **Haymarket Beer Co. Pub & Brewery** - 737 W Randolph St, Chicago
- **Forbidden Root Restaurant & Brewery** - 1746 W Chicago Ave, Chicago
- **Whiner Beer Company** - 1400 W 46th St, Chicago
- **Old Irving Brewing Co.** - 4419 W Montrose Ave, Chicago
- **Lake Effect Brewing Co.** - 4727 W Montrose Ave, Chicago
- **Begyle Brewing Company** - 1800 W Cuyler Ave, Chicago
- **DryHop Brewers** - 3155 N Broadway St, Chicago
- **Local Option** - 1102 W Webster Ave, Chicago
- **Exit Strategy Brewing Co.** - 7700 Madison St, Forest Park
- **On Tour Brewing Company** - 1725 W Hubbard St, Chicago
- **Goose Island Beer Co.** - 1800 W Fulton St, Chicago
- **Piece Brewery & Pizzeria** - 1927 W North Ave, Chicago
- **Great Central Brewing Company** - 221 N Wood St, Chicago
- **Burnt City Brewing** - 2747 N Lincoln Ave, Chicago
- **Moody Tongue Brewing Company** - 2136 S Peoria St, Chicago

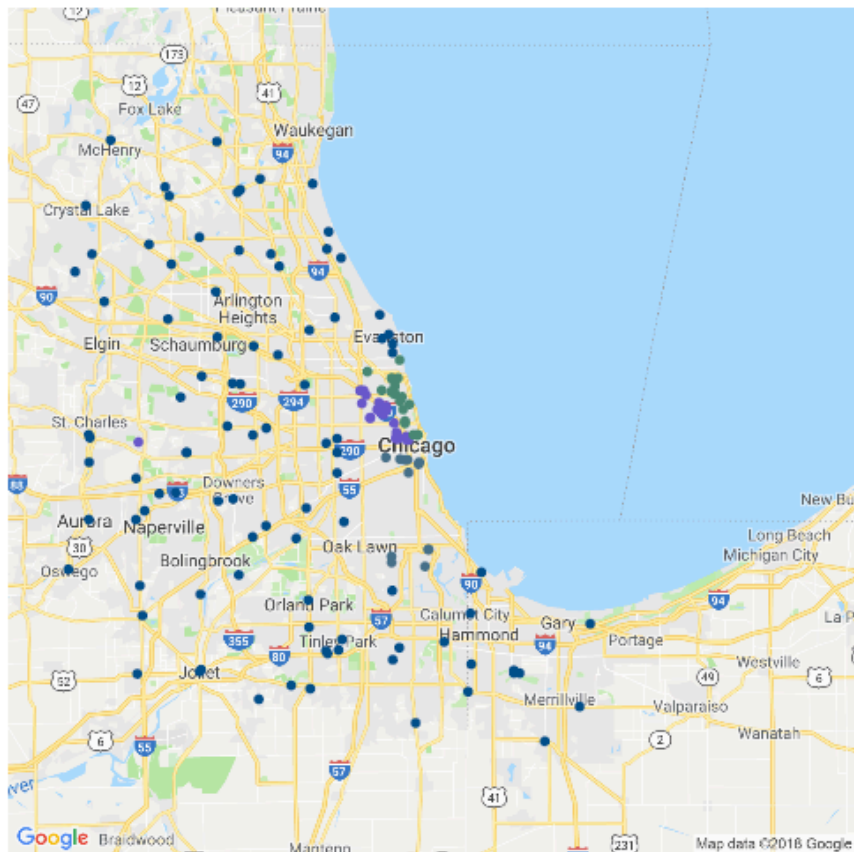
# App features:

- ggmap of Chicagoland and Chicago
- color coding by area
- subsetting by brewery features
- searchable table
- hover option over the dots (Euclidean distance between map point and mouse cursor)

[www.eleanorchodroff.com/apps/brews.html](http://www.eleanorchodroff.com/apps/brews.html)



## Chicagoland Breweries



Haymarket Pub & Brewery  
Chicago – West Loop  
kitchen & beer

### Region

- ☐ Chicago only
- ☒ Chicagoland+

### Options

- ☐ Tap Room
- ☐ Kitchen & Beer
- ☐ Tour

Show 10 entries

Search:

	brewery	address	city, state
1	18th Street Brewery – Hammond	5417 N. Oakley Ave.	Hammond, IN
2	18th Street Brewery – Gary	5725 Miller Ave.	Gary, IN
3	25 West Brewing Co.	2 Stratford Dr.	Bloomington, IL
4	350 Brewing Co.	7144 W. 183rd St.	Tinley Park, IL
5	3 Floyds Brewing Co.	9750 Indiana Pkwy.	Munster, IN
6	5 Rabbit Cervecería	6399 W. 74th St.	Bedford Park, IL
7	51st Ward Brewing		Westmont, IL
8	6th Hour Brewing Co.		Indianapolis, IN

# What I learned:

- Possible to code a Shiny app in a day or two (or less)
- Improvements are always incremental and take time
- Skills generalize
- Having a strong concept is a powerful motivator
- Concepts often arise from a mixture of problems and interests



Thanks!

