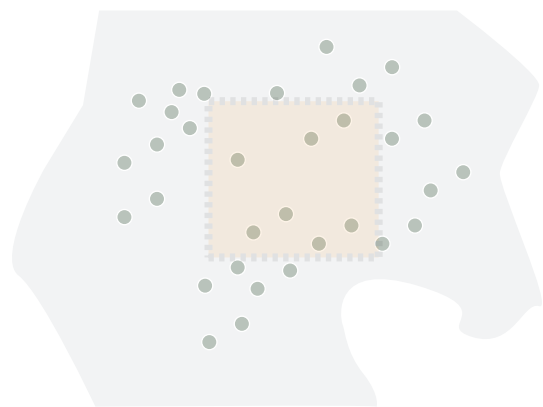


# Introduction

Step 1&2



Our project is try to visualize the data of Yelp reviews and check-in.  
The goal is to let the user find the best suitable restaurant around them.

So we divide our project into 5 steps. The 1&2 steps would be a Martini Glass which let the user to choose the restaurants in their areas.

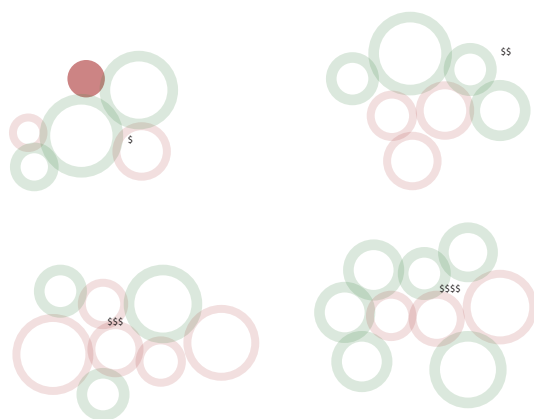
And in 3rd step then we visualize them and categorize them in different ways to let the user see how several restaurants they are interested share how many features they would prefer.

Because the problem for the Yelp is sometimes you would miss a very suitable restaurant because you put one more limitation and not that flexible in a way.  
And in 4th step we visualize the detailed information for the restaurants that people want to see.

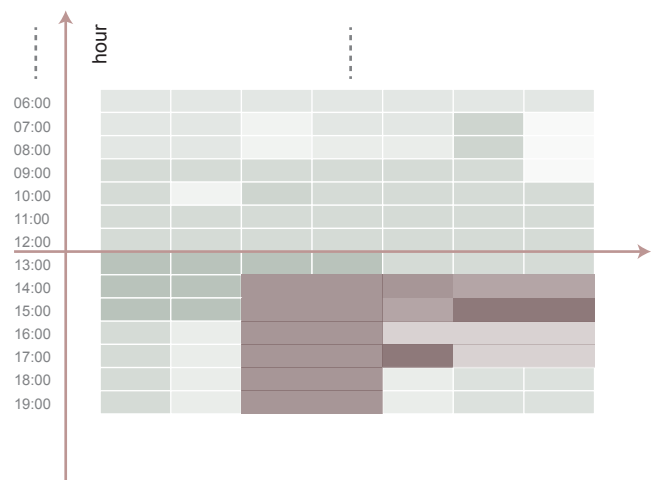
And 5th step allows people to recalculate the score of the restaurant according to the weights they put in the votes of the reviews.

And detailed information will be explained with diagrams in later page.

Step 3



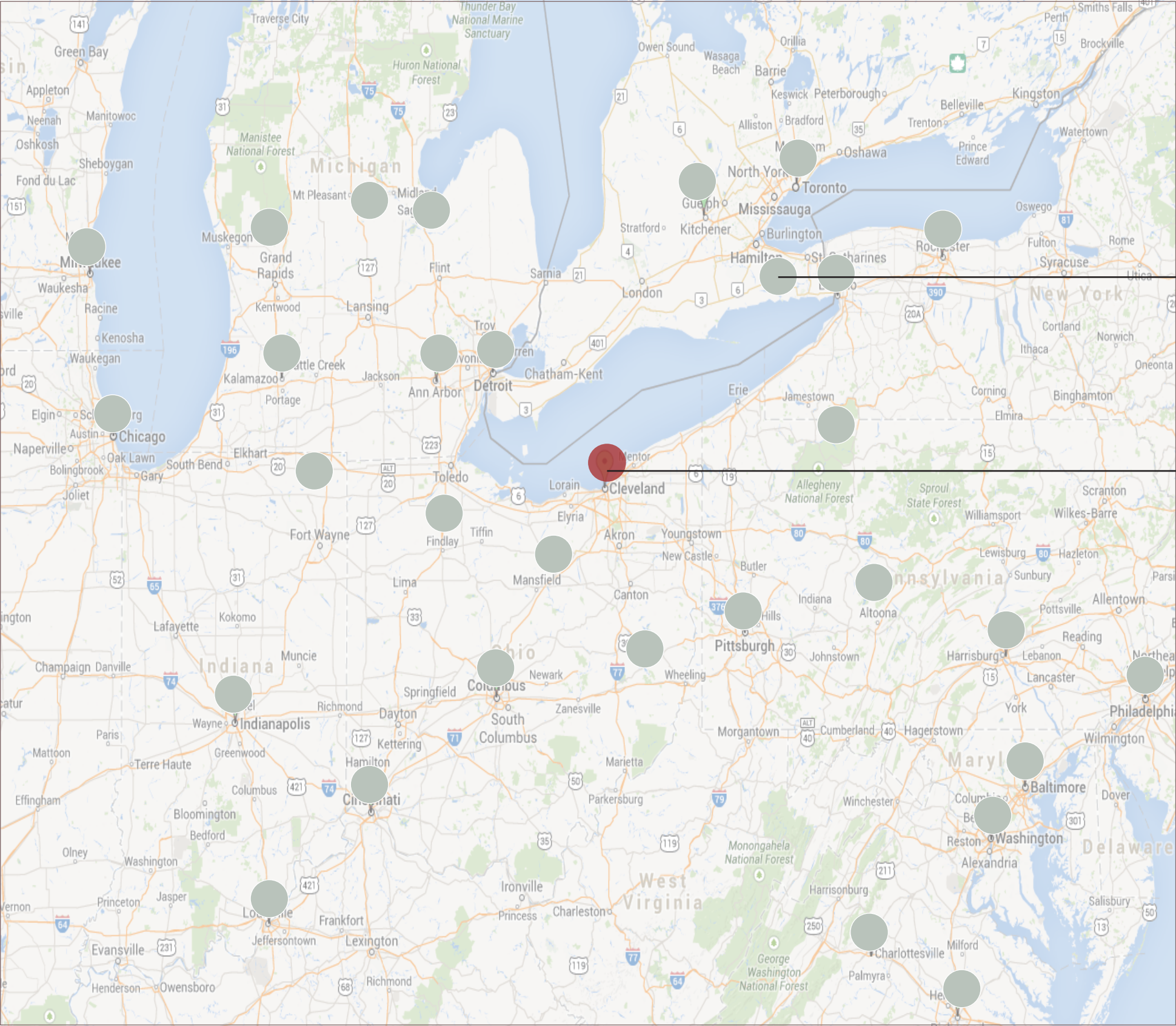
Step 4



Step 5



Step 1



The circle represents the center of the counties in Phoenix

The chosen county  
Will transition to next page

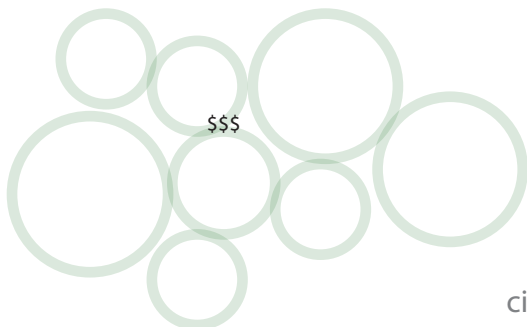
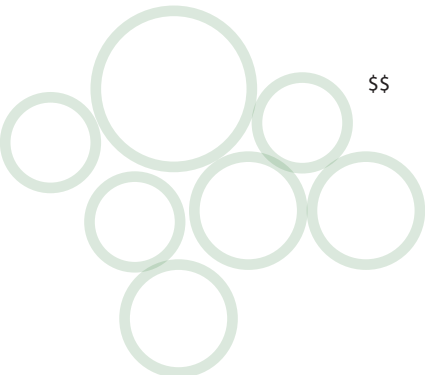
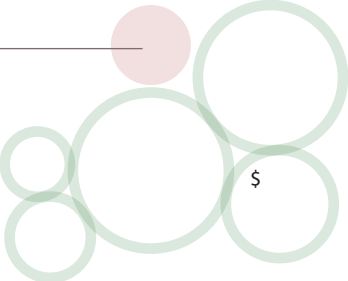
Step 2



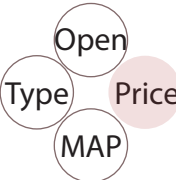
Step 3

Price

restaurant chosen  
will show detailed data

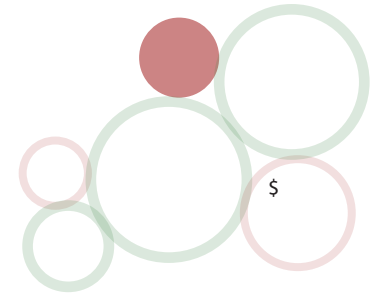


circles form clusters according to the choices( price for example)  
radius related to average score



### Step 3\_1

Price



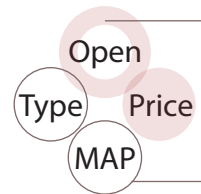
\$\$

- Restaurants are open

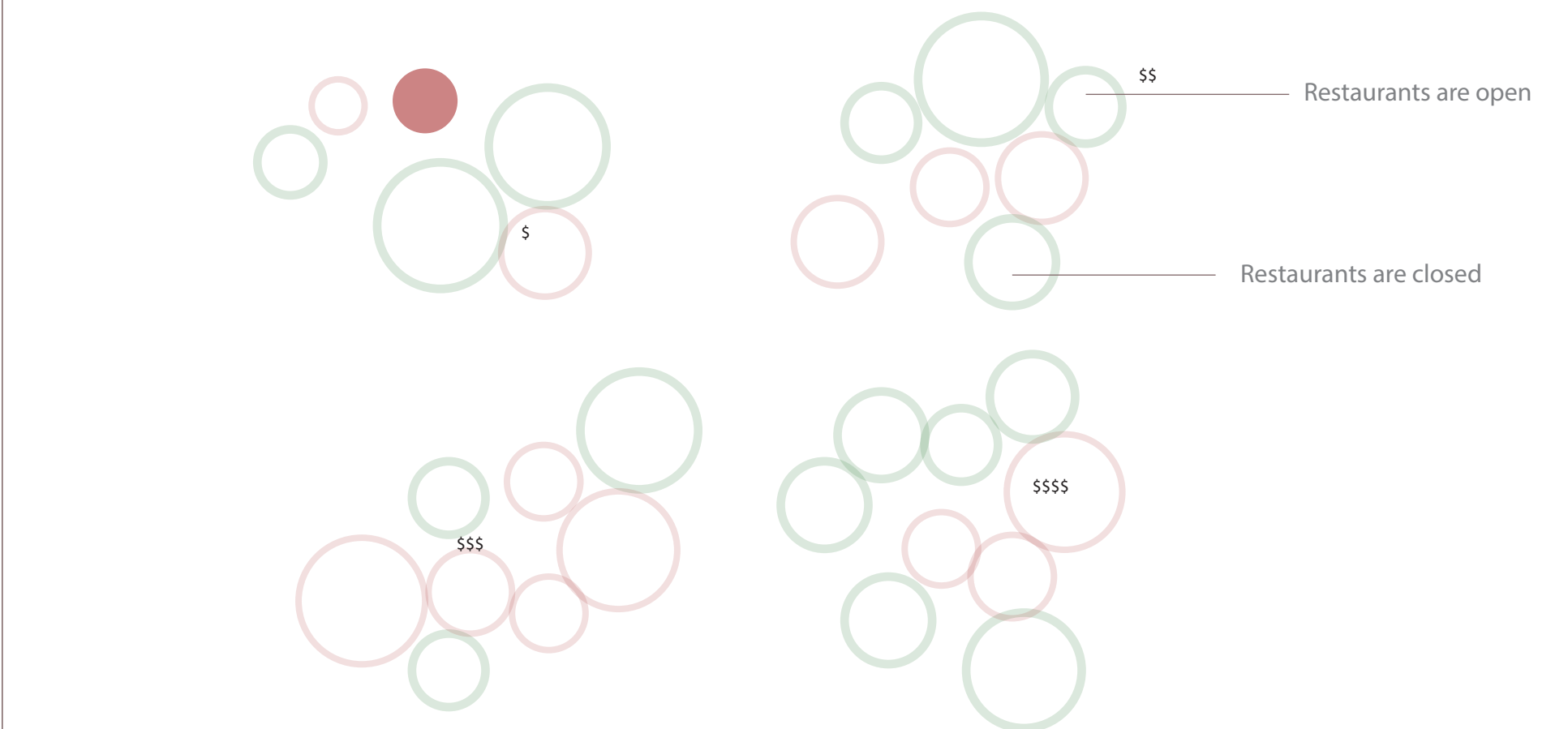
Restaurants are closed

When open is on  
It will color the circle according to the open status of the restaurants

\$\$\$\$

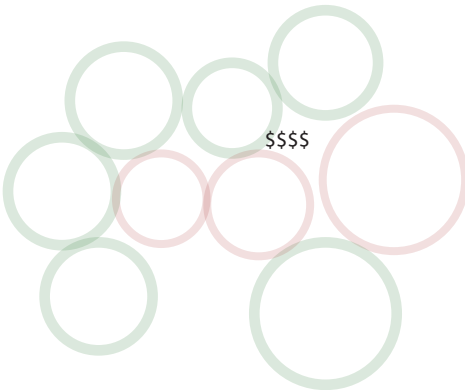
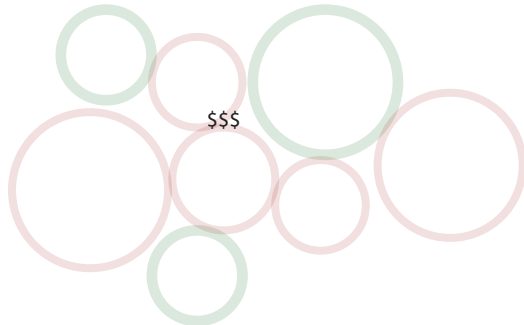
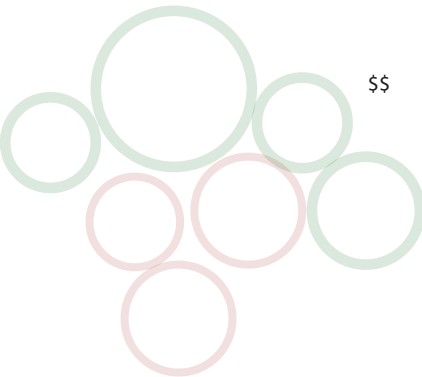
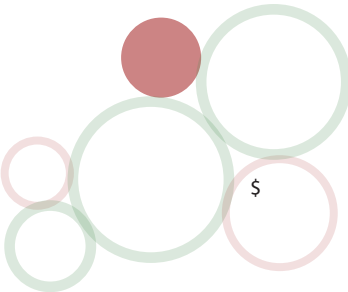
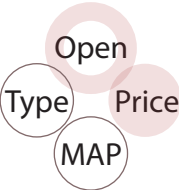


When click the map  
It will go back to the map or slide out the map again

Step 3_2	Price				
	<div><div>Open</div><div>Type</div><div>Price</div><div>MAP</div></div> <div><div>Parking</div></div>	<p>They will form new clusters according to foodtype. And we may build more options after finish the basic two types first. (such as parking or it will relate to the position of the circle maybe in each cluster, the easier parking restaurant will come closer to the center of the screen. )</p>			

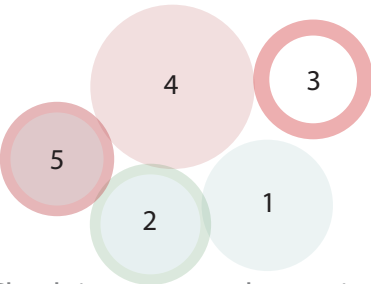
Step 4

Price



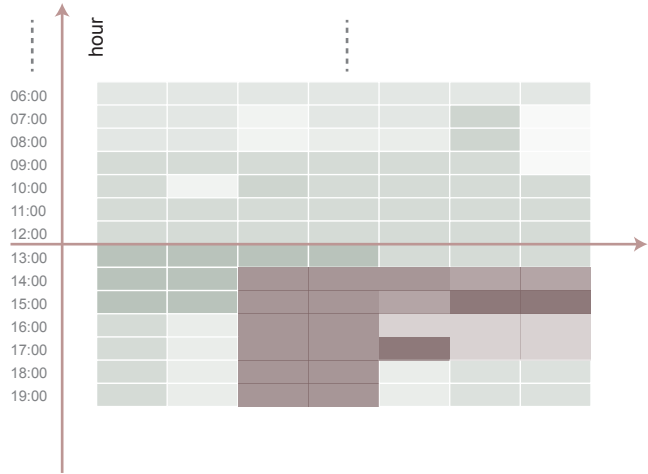
Alive Lobsters  
Star

Show the detailed information of the restaurants clicked  
Check-in



Check-in patterns, the x-axis represents the from Sunday to Saturday  
The y-axis represents the hour, and the color and the transparency  
indicates the times of check-in

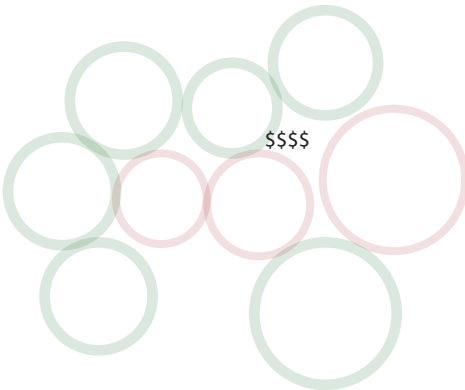
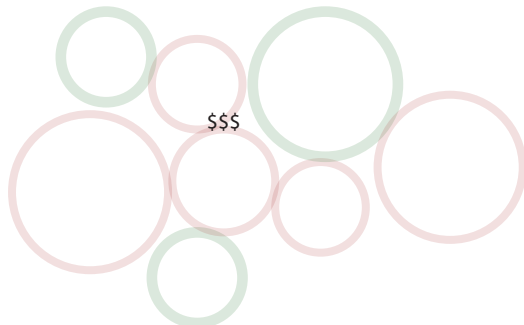
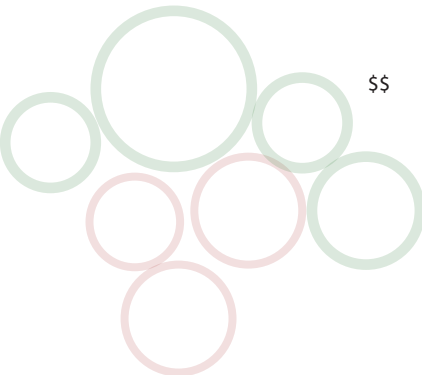
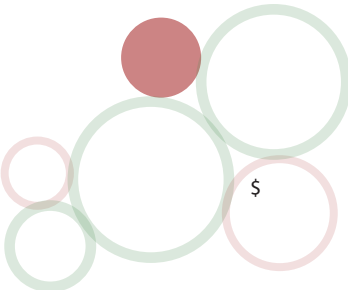
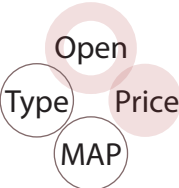
radius related to number of reviews





Step 5

Price

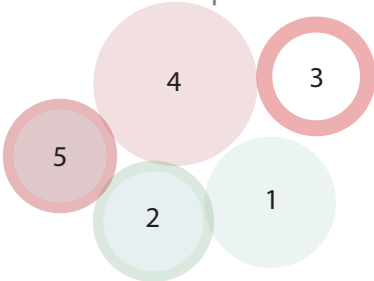


Alive Lobsters

Star



A play function will be added in the end to go through restaurant one by one to see the differences in their detailed patterns.



Useful

Funny

Helpful

We want to recalculate the stars or score of the restaurant according to the votes of the reviews.  
If one review has 10 votes of useful, it may count for two times for the new average score.  
And user could set their own weight they want to use for the votes.

Check-in

