

Preventative Healthcare Via Accessible Data Tools

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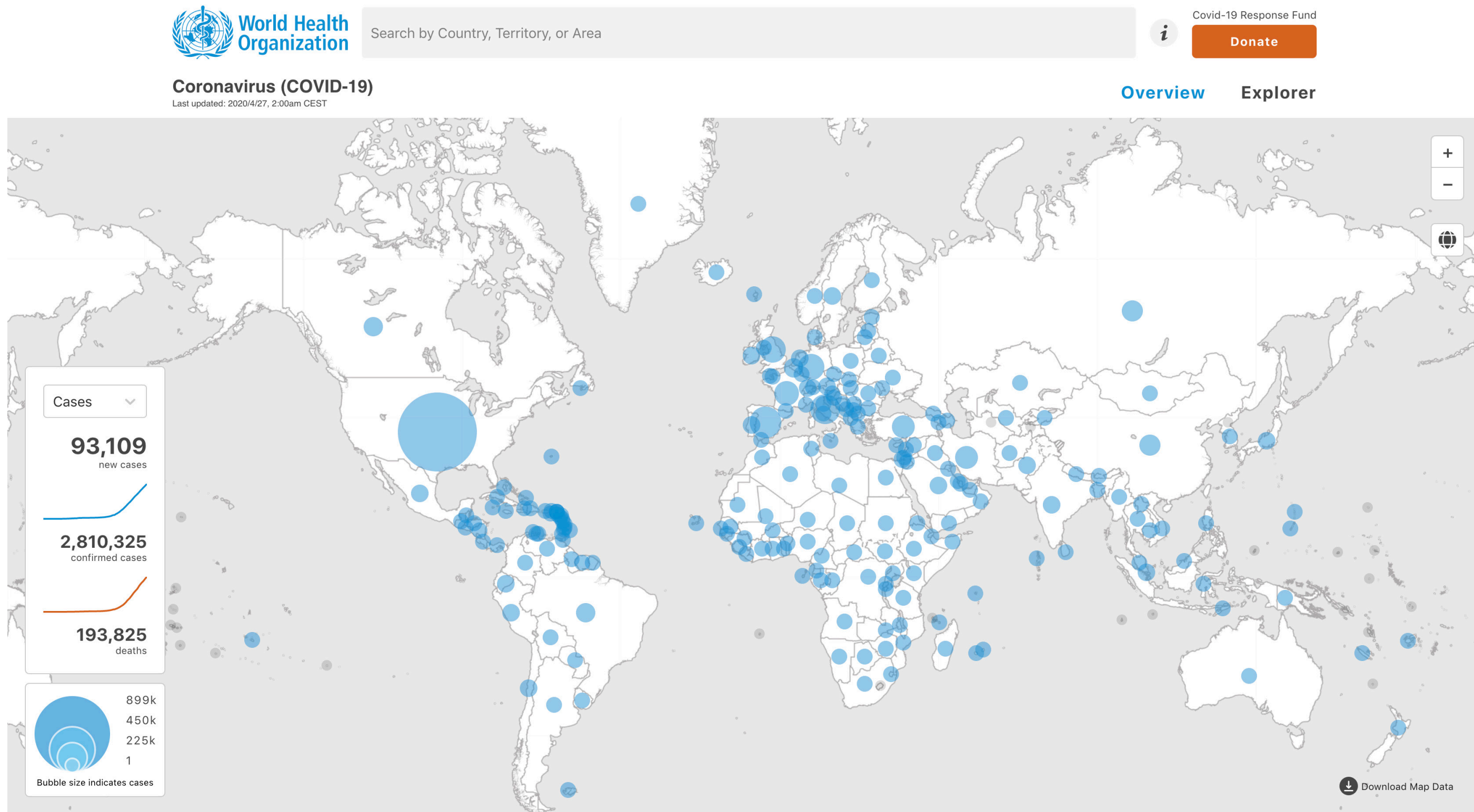


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Problem

In today's society, we are constantly inundated with examples of how data collection invades personal privacy and enables Orwellian oversight. However, we believe that this is an immense oversimplification of a complex topic. Like any technology, massive datasets can greatly improve the lives of everyday citizens just as easily as they can line the pockets of the rich.

Unfortunately, most people lack the expertise to analyze complex, multifaceted datasets on their own, and miss the benefits that they provide. The current pandemic is an excellent example. There is a wealth of information on the Internet, but it paints a very abstract picture of the issue. This makes it difficult for the average person to translate it into concrete, actionable information.



Despite the wealth of data that has been collected since the start of the pandemic, the general public has no way to leverage it. However, with the proper interface, we believe that it is possible to translate a complex process into a simple tool that everyone can use.

Solution

Our tool, Sidestep.app, aims to overcome the main roadblocks preventing widespread public use of CoViD-19 data

1. Disjunct datasets

- CoViD datasets are commonly distributed, making them difficult to work with. However, we found a tool that scrapes data from a variety of websites (coronadatascraper.com), providing us with a master data-source.

2. Lack of time and/or skills

- Not everyone has the time or skills to work with massive datasets, and web-based applications allow a small team to easily supply tools to a wide audience.
- By spending time to implement an online tool, the overall benefit-to-time ratio increases for everyone

3. Lack of portability

- Tools are pointless unless people want to use them. A mobile website allows for simplicity, portability, and ease of use that a programming environment doesn't.

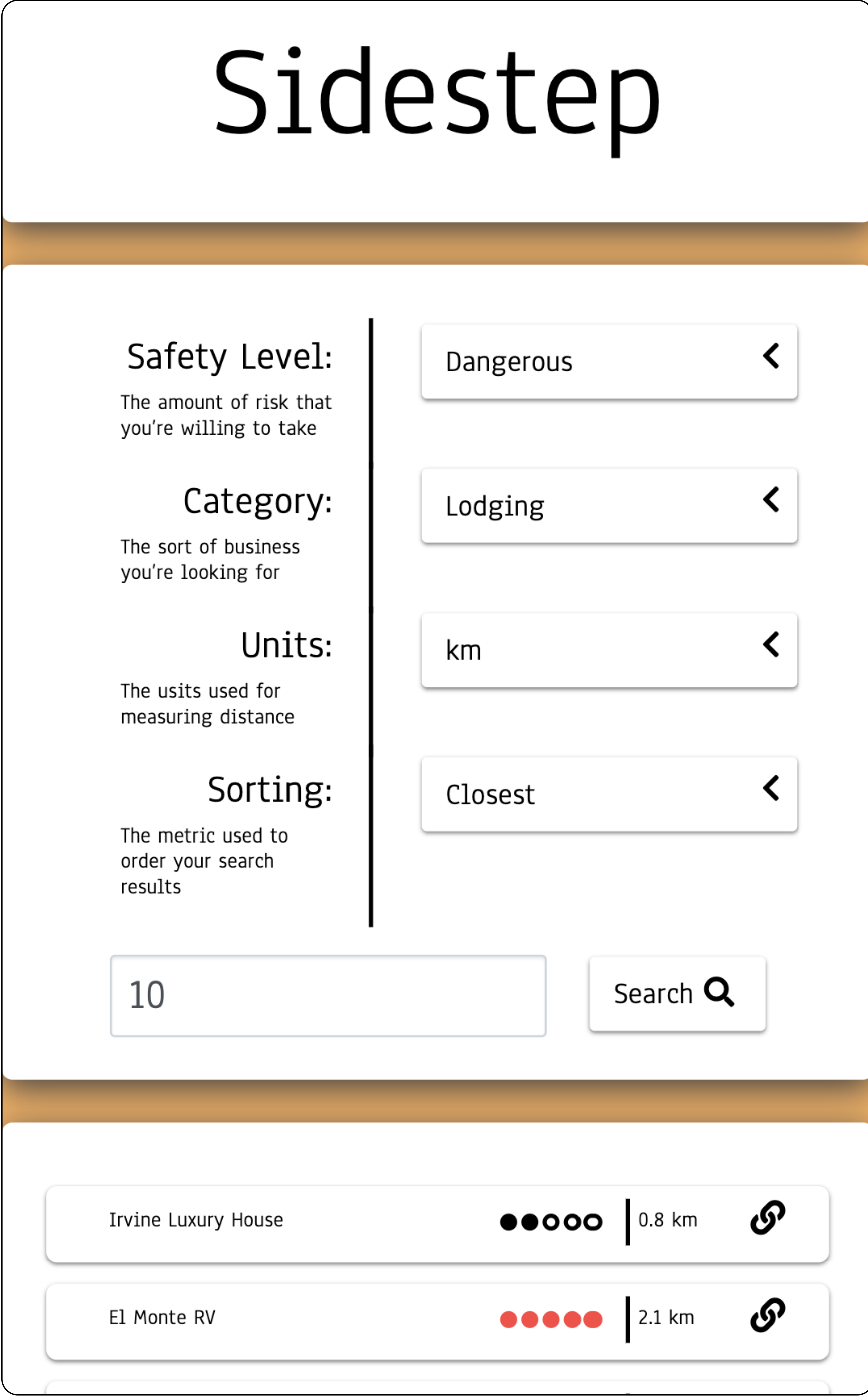
4. Lack of domain knowledge

- We aren't experts by any means. However, since GitHub hosts Sidestep, experts can publicly critique our methods and make suggestions as they see fit.



Result

With these design considerations, we were able to build a clean, simple, and responsive tool that provides democratized data analysis



Sidestep finds all of the businesses within your search radius, and then computes the danger level at each location.¹ If the location is more dangerous than your desired level of risk, it is removed from the search results.

The results are listed with pertinent information, including dots indicating the level of danger, and a link that will open the location in google maps.

¹ Danger = (n/d)•k
n = number of infected in an area
d = distance between a business and that area
k = a constant to scale the result