Seth Dumaguin

Geog 186

Alicia Cowart

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Project Proposal

1. The title of my project would be: “What is the Safest Route in Berkeley?”
2. The general idea that I am trying to portray on my map is what is the safest route a student can take to get to their apartment or dorm from campus. I am looking at the routes where a person can take that has the least amount of past crimes and the routes where there are traffic lights and street lights. I think that the routes that has the most street lights and least old crime setting would be the safest route to get a student home.
3. The extent of the mapped area would be UC Berkeley and the neighborhood around the campus. I am thinking the farthest that I would go on the map is what I think the furthest a student lives at.
4. The method that I am planning on using to portray my data is using different methods for each different type of data. First, for the street lamp data, I was thinking of simply using points to show the location where each street lamp is at. I am also thinking that for the different zooms, the street lamps would merge together since if there are multiple street lamps, the map would look flooded with those points. For the streets with traffic lights, I was also thinking of using the same method as I was talking about with the street lamps. For the crimes that has happened around UC Berkeley, is using both a heat map and also point map. I am thinking of using both of these methods for each zoom level or the viewer of the map has an option to pick which method they want to see the data to be portrayed on the map. The heat map would show the harshness of the crime that is committed on a certain area. The color would of the heat would be darker if the crime is harsher than the other. For the point map of the crimes, I am also thinking of color coding each point based on the severity of the crime. The crime would be on the legend that will also be included on the map.
5. Different kinds of interactivity that I would include on my map are clickable points where it shows more information on the crime that happened, such as the kind of crime, if the criminals were caught, and the time of the crime. Another interactivity that I am thinking of adding is having a search bar where it lets user pick the time they are going home and see where most crimes happen during a certain time. Most of the interactivity I am thinking for this map is playing with what layer the user would want to see to give themselves the information to get to their home safely.
6. The different data that I will be using for this map is found City of Berkeley Open Data. The links provided below directs you to the data set that I will be using to map the idea I have.

Berkeley PD Calls for Service: <https://data.cityofberkeley.info/Public-Safety/Berkeley-PD-Calls-for-Service/k2nh-s5h5/data>

Berkeley Street Lamps: <https://data.cityofberkeley.info/City-Government/Streetlights/w9v4-y3pu>

Berkeley Traffic Lights: <https://data.cityofberkeley.info/Transportation/Traffic-Signals/ye5w-tc93>

1. I think this map should be made because a lot of the students that go to UC Berkeley has or might experience some type of mugging or robbery. I think with this map, this would inform UC Berkeley students on where most crimes happen in campus and during what time so they will most likely stay away from those areas if they choose to walk home during that time. I have had a friend that was mugged and I would not want anyone else that I am close with have that type of experience, so I think with this map, people will be more informed as to where to stay away from if they are walking home late.