

Devilishly Dapper Data

Neel Mehta, Javier Cuan-Martinez, Peter Youn, Enrique Casas

12/12. Adding final touches

- Reorganized the order of visualizations and the story for better impact and flow.
- Added finishing touches to the campus map visualization
 - Hue scale
 - Font size
 - Initial load without well
- Summary:

By gathering the data, gathering resources, and completing the project, we, as a group, have learned so much about the topic and its grave situation. The project has truly opened our eyes to the scope of the matter at hand and to the prevalence of sexual assault on college campuses across the nation, as well as the prevalence of sexual assault outside of college campuses. The subject is a multi-faceted issue, where a multitude of topics must be addressed in order to combat the problem and respond to it appropriately: not only does the act of sexual assault undermine basic human values, but it is also reported far less frequently than it should be - victims fear possible backlash, worry that the situation will arrive at a meaningless resolution, and turn away from having to relive the terrible experience while reporting the incident. By spreading knowledge of what constitutes sexual assault, and by spreading knowledge of resources to aid victims, we hope to make a meaningful impact for the greater good.
- Transcript for screencast video:

ALEXANDRA'S STORY

Our group focused on the issue of sexual assault because of the frustration that we all felt after reading stories like the one of Alexandra Le Blanc. She was a college student like us and just like all of our classmates. Sadly, like an alarming number of other female college students, she was sexually assaulted during her four years as a student.

QUIZ VISUALIZATION

Most people don't understand that sexual assault doesn't only happen in dark alleys. It is happening everywhere right in front of our eyes.

SURVIVOR VISUALIZATION

The most shocking insight that we gained while creating this project was the fact that 1 in 5 women will be sexually assaulted while in college. This means that if you are sitting in a college classroom as you watch this, and you look around, you will most likely see the faces of sexual assault survivors and future sexual assault victims. There's a chance that you will also see their assailant because 9 in 10 survivors know their assailant before he commits the crime.

We can see how the issue of sexual assault is multi-dimensional because the crime is committed by people the victims knew, it is a crime that is underreported, and it is a crime that results in long-term psychological and physical problems. We attempt to humanize and bring all of this data to life by allowing the user to hover over the figures and read students' personal accounts on sexual assault in college campuses.

MAP VISUALIZATION

These aren't isolated incidents limited to a handful of schools, it is a problem that is seen in schools across the country. With this visualization we were able to compare each school's rate of sexual assault against the national average rate nationwide.

ROULETTE VISUALIZATION

The American justice system is failing these students because there is only a 1 in 16 chance that the assailant will get arrested of the 5% of cases in which students report the crime.

REPORTED VISUALIZATION

Not only is the system failing female students, but it is failing women nationwide which has contributed to sexual assault being one of the least reported crimes in the country. Less than 40% of survivors report it to police nationwide.

HOPE VISUALIZATION

Sexual assault is still an issue in our country, but the rate of sexual assault has been dropping in recent years, so there is progress being made regarding this epidemic.

RESOURCES AND WHAT WE CAN DO VISUALIZATION

There are many resources available for victims of sexual assault and we can also help by supporting the organizations that help these victims by donating money or by signing on to volunteer our time.

12/11. Finalizing

- Javi: made awesome updates to survivors visualization so that it shows that 90% of survivors know their assailant
 - Still gotta add more steps
 - Completed,
- Source some info from here for reporting
 - <http://www.umd.edu/ocrsm/files/Why-Is-Sexual-Assault-Under-Reported.pdf>
- Added campus map visualization with data taken from 27 schools, per the AAU survey.
- Complete.

12/9. More work

- Enrique: Added quiz
- Javier: worked on the survivors visualization
- Still have to integrate Hendrik's suggestions
- Need to make a credits page

12/6. Meeting Hendrik

- Suggestions
 - Make cover photo darker and scarier - b&w
 - Remove the party photo from the story - make it just the woman icon
 - Definitely add the map with assault rates at colleges
 - Add a section at the bottom with our names, disclaimers, links
 - Explain the quirks in the data - data artifacts or trends
 - E.g. 2006 had different methodologies
 - Add a section explaining that the messiness of the data teaches us that we need to talk about this better and collect data better (data is sparse, messy)
 - The graph of rates over time isn't really that great, we should find some way to improve it
 - Maybe make the numbers more straightforward instead of "rate relative to 1996"?
 - Add labels
 - Add legend

12/5. Meeting

- Fixed tons of stuff based on feedback
 - Graphic design
 - Storytelling
 - Visualizations
 - Adding a new map viz
 - Minor tweaks (e.g. story typing speed)
- Washington Post viz/data on each of the 27 schools participated in AAU report, school official's response/statement regarding sexual assault (to use for specific info in viz):
https://www.washingtonpost.com/news/grade-point/wp/2015/09/21/what-a-massive-sexual-assault-survey-showed-about-27-top-u-s-universities/?utm_term=.05b936745bae
 - CSV:
https://docs.google.com/a/college.harvard.edu/spreadsheets/d/1bD7yspti6SAOGRtSmg0dJvXPS0dfW_nD3ZcN63yjJ8/edit?usp=sharing
- US States GeoJSON: https://bubinga.co/wp-content/uploads/jsonstates.min_.js

12/1. Feedback from project demos

- Make the spinner wheel appear clickable
 - Completed.
- Make the story text go faster
 - Completed.
- Roll the disturbing facts viz into the survivor square viz
- Show sources
- Make bar graph seem more differentiated - make it stand out just how uncommon sexual assault reporting is
- Add another coordinated view
- Make the name more specific and less frank
- We have a lot of white space in the ⅓ vis. We can stack the quotes
 - No longer on the agenda.
- Change the wording for the Spinner description
 - Completed.
- Link the definition of simple and aggravated assault
 - No longer on the agenda.
- Story at the end is not consistent. Change the order of the visualizations.
- For typewriter, click on it and the entire thing renders
 - No longer on the agenda.
- On hover of the navigation points, show the name of the header
 - No longer on the agenda.
- Better colors for the graphs and a legend
- How does Alexandra's experience connect back to that of the US.
- Add some kind of map
- Show state schools vs Ivy/other elite schools
 - Harvard: 31.2% of women are sexually assaulted in college
 - [https://harvardgazette.files.wordpress.com/2015/09/hyman_letter_final_9.21.2015.pdf?m=1442844014&utm_source=SilverpopMailing&utm_medium=email&utm_campaign=Mailing%209.21.15%20\(1\)](https://harvardgazette.files.wordpress.com/2015/09/hyman_letter_final_9.21.2015.pdf?m=1442844014&utm_source=SilverpopMailing&utm_medium=email&utm_campaign=Mailing%209.21.15%20(1))
 - Look at the other 26 schools they surveyed
 - Maybe use AAU survey but it's aggregate data
 - http://www.aau.edu/uploadedFiles/AAU_Publications/AAU_Reports/Sexual_Assault_Campus_Survey/Report%20on%20the%20AAU%20Campus%20Climate%20Survey%20on%20Sexual%20Assault%20and%20Sexual%20Misconduct.pdf
- Add legends
- Double down on alexandra story
- Make differences b/w stats more clear on the bar chart
- Useful resources

- <http://www.bestcolleges.com/resources/preventing-sexual-assault/x>
- For the choropleth map: <http://www.cnn.com/2014/02/03/opinion/sutter-alaska-rape-list/>

Great feedback from feedback sheets:

3. Rubrik:

Please give scores are from 0-5 (0 means bad, 5 means good)

Criteria	Points
Technical requirement 1 fulfilled (multiple coordinated views)	5
Technical requirement 2 fulfilled (one innovate view, either an extension of an existing visualization type or a novel visualization)	5
Effective visualizations <i>- a little repetitive</i>	4
Innovative visualizations	5
Level of technical difficulty	5
Clear storytelling	4
Visual design (including website)	5
Addresses the goals	5
Sensible and effective interaction	5

4. Please write down any other comments you might have:

- Add legends
- Need a little more of clarification for user interaction
 - ↳ Add labels to Nav bar
- A lot of wait time.

3. Rubrik:

Please give scores are from 0-5 (0 means bad, 5 means good)

Criteria	Points
Technical requirement 1 fulfilled (multiple coordinated views)	5
Technical requirement 2 fulfilled (one innovate view, either an extension of an existing visualization type or a novel visualization)	5
Effective visualizations	5
Innovative visualizations	5
Level of technical difficulty	5
Clear storytelling	5
Visual design (including website)	4
Addresses the goals	5
Sensible and effective interaction	4

4. Please write down any other comments you might have:

Might be able to combine some pieces

3. Rubrik:

Please give scores are from 0-5 (0 means bad, 5 means good)

Criteria	Points
Technical requirement 1 fulfilled (multiple coordinated views) <i>you have it, but I'm not sure the timeline is necessary.</i>	4
Technical requirement 2 fulfilled (one innovate view, either an extension of an existing visualization type or a novel visualization)	5
Effective visualizations	4
Innovative visualizations	5
Level of technical difficulty	5
Clear storytelling	4
Visual design (including website)	5
Addresses the goals	5
Sensible and effective interaction	5

4. Please write down any other comments you might have:

- Loved showing the 1 in 20 statistic and supplemented with quotes.
- I really liked how you grounded it in the experience of a real woman

3. Rubrik:

Please give scores are from 0-5 (0 means bad, 5 means good)

Criteria	Points
Technical requirement 1 fulfilled (multiple coordinated views)	5
Technical requirement 2 fulfilled (one innovate view, either an extension of an existing visualization type or a novel visualization)	5
Effective visualizations	5
Innovative visualizations	5
Level of technical difficulty	5
Clear storytelling	5
Visual design (including website)	5
Addresses the goals	5
Sensible and effective interaction	5

4. Please write down any other comments you might have:

on the bar chart possibly accentuate
the differences between statistics
possibly only compare one at a
time

3. Rubrik:

Please give scores are from 0-5 (0 means bad, 5 means good)

Criteria	Points
Technical requirement 1 fulfilled (multiple coordinated views)	5
Technical requirement 2 fulfilled (one innovate view, either an extension of an existing visualization type or a novel visualization)	5
Effective visualizations	5
Innovative visualizations	5
Level of technical difficulty	5
Clear storytelling	4
Visual design (including website)	5
Addresses the goals	5
Sensible and effective interaction	5

see notes on google doc

4. Please write down any other comments you might have:

see google doc

3. Rubrik:

Please give scores are from 0-5 (0 means bad, 5 means good)

Criteria	Points
Technical requirement 1 fulfilled (multiple coordinated views)	5
Technical requirement 2 fulfilled (one innovate view, either an extension of an existing visualization type or a novel visualization)	5
Effective visualizations	5
Innovative visualizations	4
Level of technical difficulty	4
Clear storytelling	5
Visual design (including website)	4
Addresses the goals	4
Sensible and effective interaction	4

4. Please write down any other comments you might have:

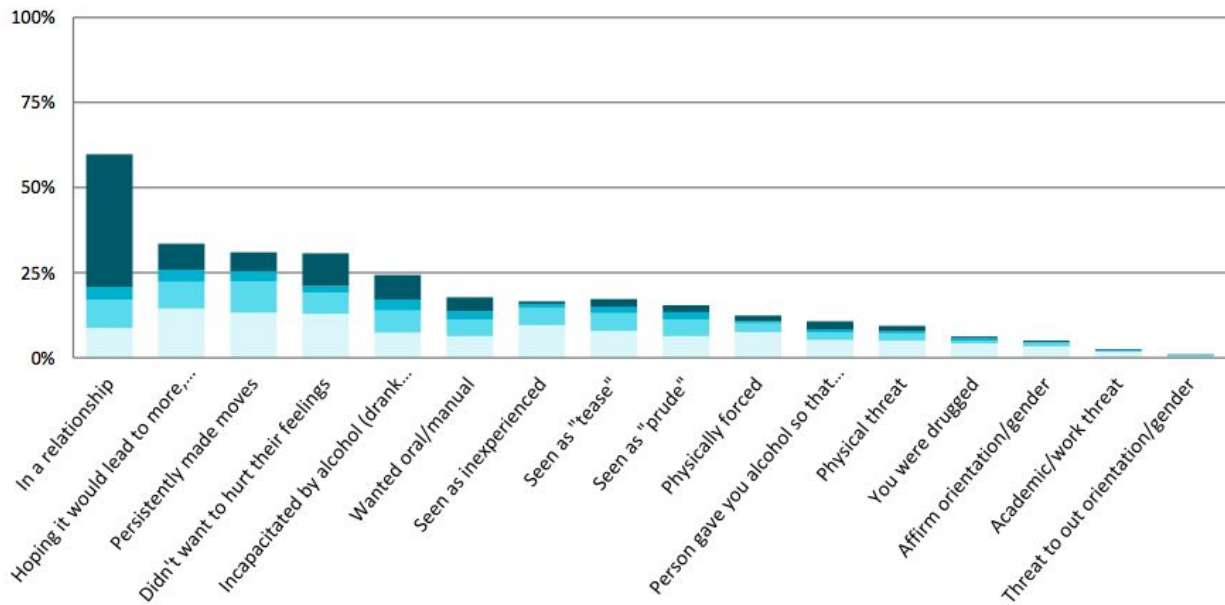
11/30. Making changes after Prototype 2

- Big changes planned after feedback.
 - Weave this all together into a story of a particular victim
 - Make the 100-person survivor grid visualization interactive - show stories on hover, and have several steps that show more stats overlaid on top
- New idea: to show the difficulty of getting someone arrested (6%), have a spinner you have to hit over and over till you get it
 - Many libraries available
 - <https://github.com/JavoByte/rouletteWheel>
 - <https://github.com/tehsis/jfortune>
 - <http://codepen.io/zadvorsky/pen/xzhBw>
 - Or we could just spin our own using the pie chart in d3
- Let's use this story
 - <https://www.washingtonpost.com/graphics/local/sexual-assault/>
 - Alexandra, american university
- Other ideas
 - do we need/want to look into data regarding repeat victim/offenders? -peter

New Data: Rape Incarceration Rates

- <https://www.rainn.org/statistics/criminal-justice-system>
- Out of 1,000 rapes, 994 perpetrators will walk free
 - 344 are reported to police
 - 63 reports lead to arrest
 - 13 cases get referred to prosecutors
 - 7 cases will lead to a felony conviction
 - 6 rapists will be incarcerated
- Out of 1,000 Robberies
 - 618 are reported to police
 - 167 reports lead to arrest
 - 37 cases get referred to prosecutors
 - 22 cases will lead to a felony conviction
 - 20 robbers will be incarcerated
- Out of 1,000 Assault and Battery Crimes
 - 623 are reported to police
 - 253 reports lead to arrest
 - 104 cases get referred to prosecutors
 - 41 cases will lead to a felony conviction
 - 33 perpetrators of these crimes will be incarcerated

HOW OFTEN HAVE YOU HAD VAGINAL OR ANAL SEX WHEN YOU REALLY DID NOT WANT TO?



WOMEN

Could be useful for the quiz
From confi.co

11/22. Coworking

- Neel: added the “disturbing facts” visualizations and made it use several slides
- Neel: improving the sexual assault rate visualization
 - Got multiple lines being drawn using new dataset
 - Just need to get a proper legend on there
 - Still need to remove the overall category
- Javi: working on survivors visualization

11/16-11/21. Coworking

- Neel: added stories
- Javi: started survivors vis
- Neel: added typewriter effect to stories to make them more dramatic
- Enrique: pushed updated line chart

11/15. Specifications for visualizations

Stories (at start)

Famous cases:

<http://www.teenvogue.com/story/campus-sexual-assault-cases-epidemic-universities-response-title-ix>

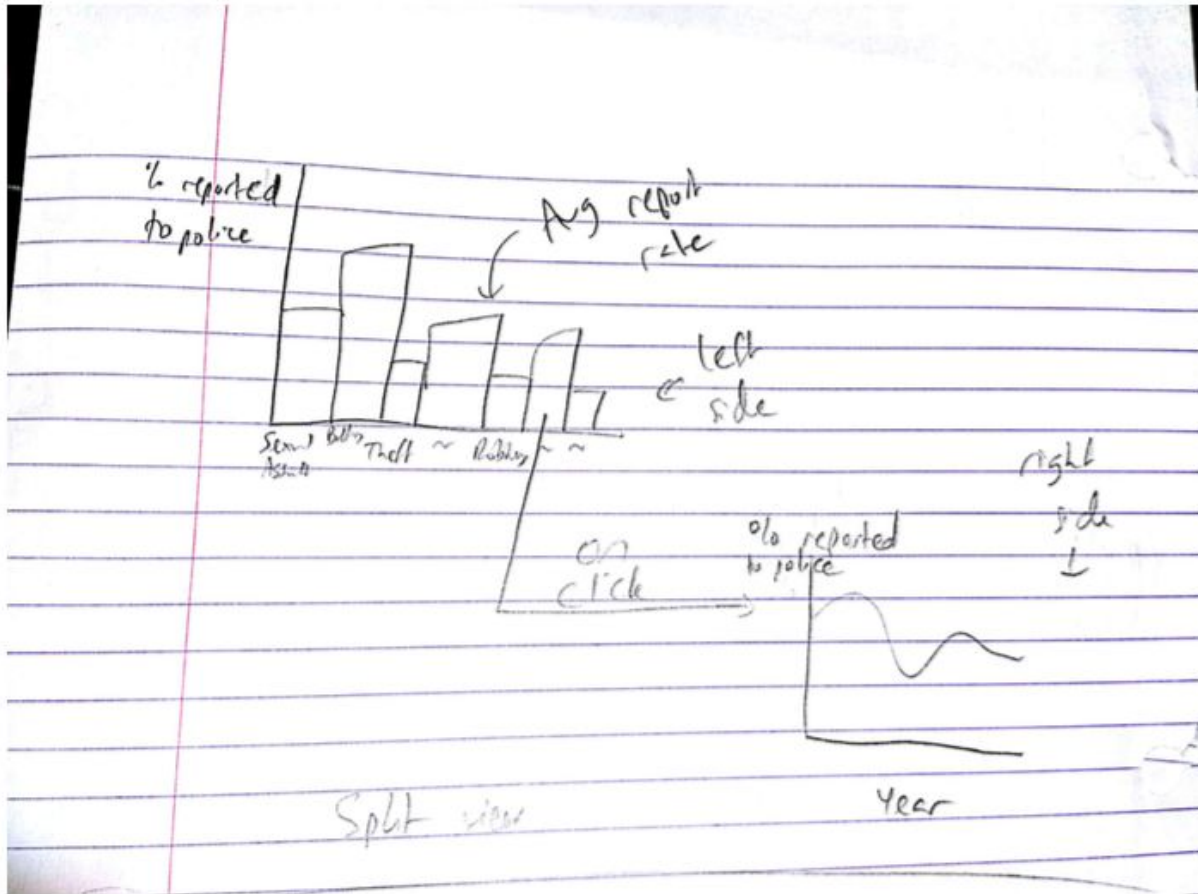
Personal stories: <https://www.washingtonpost.com/graphics/local/sexual-assault/>

Maybe we can type them out:

<https://github.com/yuanqing/malarkey>

Have slides left-right or up-down.

Police report rates visualization (Peter)

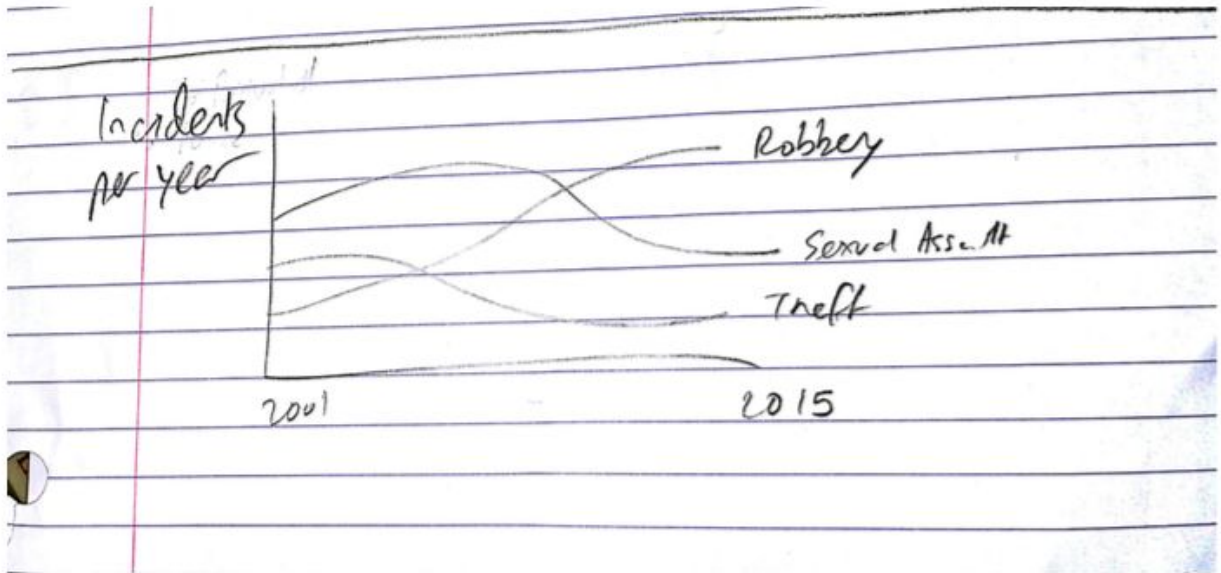


Create two linked visualizations shown side-by-side.

On the left, show a bar graph. On the x-axis, show the various kinds of violent crimes (sexual assault, theft, etc.) On the y-axis, show "% reported to police." The height of the bar corresponding to crime X should be equal to the average percent of X crimes that were reported to police from 2002-2013. For instance, if theft was reported 80% of the time in half the years and 70% of the time in the other half of the years, then the bar corresponding to theft should be at 75%.

When the user clicks on a particular bar, make a line chart on the right showing the percent reported of that crime over the years. (This is the same as our current line chart visualization, except we'll only show the line corresponding to the chosen crime.)

Incidents per year (Enrique)

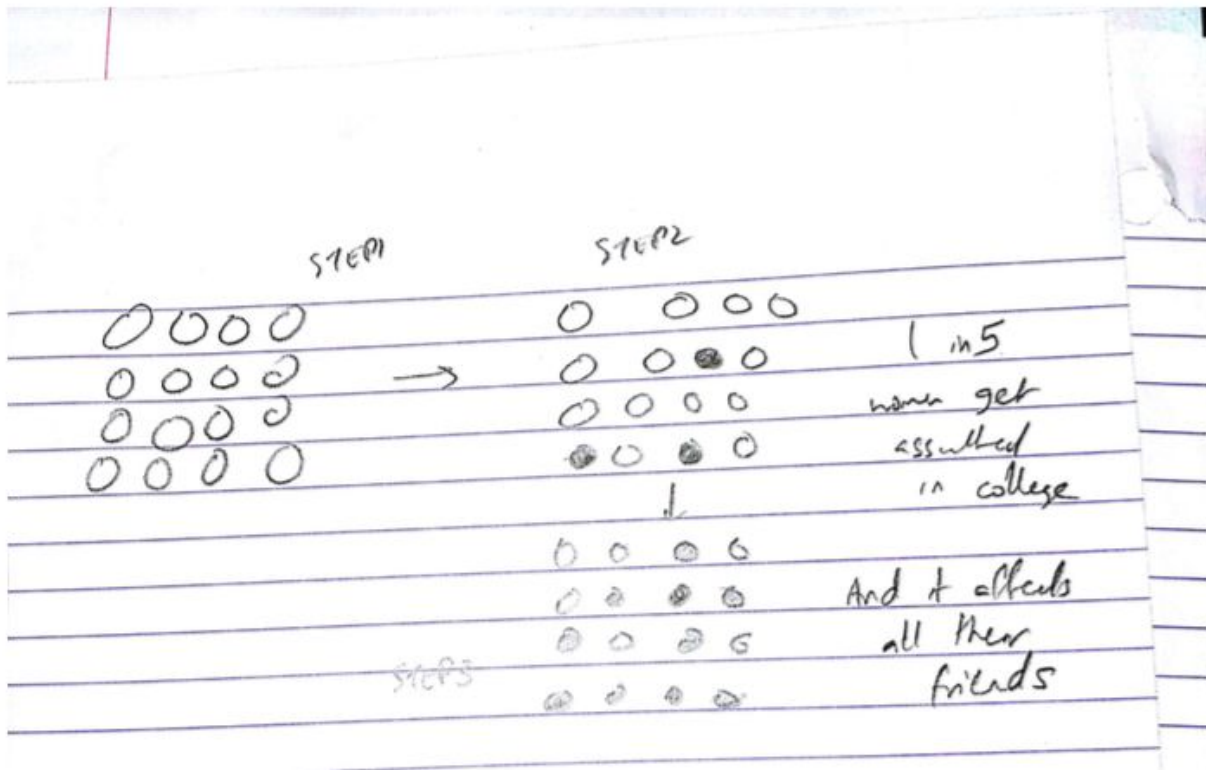


Instead of a bar chart, let's have one line chart that shows the number of each crime that was reported each year. For now we'll have 3 lines (violent crime, rape/sexual assault, robbery) but we can add more over time. This'll let people see all the rates at a glance, without having to switch between multiple views.

Total number of survivors

Have a ticker that counts from 0 up to the total number of victims over the years (3 million+.) Instead of using dots, let's use a state or city or something to visualize the big number.

“1 in 5 women in college” viz (Javier)



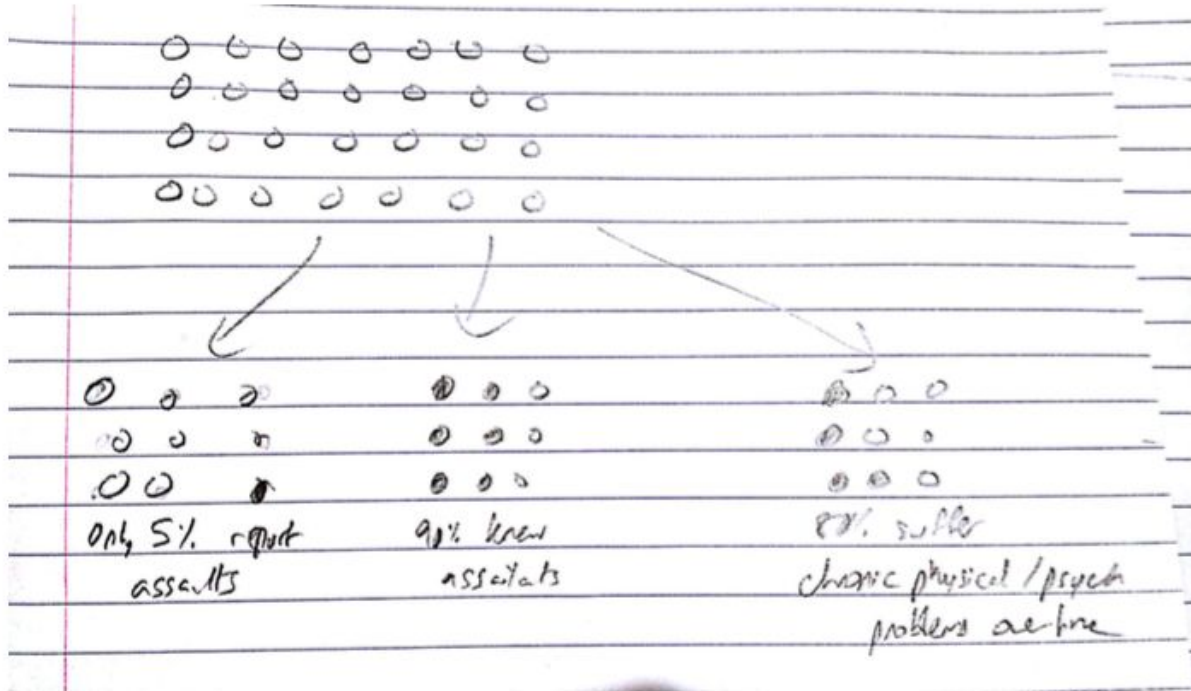
Show 100 dots. Randomly select 1/5th to be marked as assaulted and highlight them red.

First make an array of 100 people objects.

To choose the 1/5th, make an array of 20 1's and 80 0's, then use `d3.shuffle()` to randomize the order. Then map that array onto the people objects array, so that 20 are assaulted and 80 aren't.

Then use a D3 Grid Layout to draw dots (for now) for each person. Color the assaulted ones red, the other ones gray/white.

Shocking college facts



Show 100 dots (or we can just draw 20 women; “imagine an average 20-person college class”) representing survivors. Then let the user go through a series of steps. At each step, show a shocking fact and highlight the number of relevant dots. E.g. if 90% knew their assailants, then highlight 90% of the dots.

Can have multiple slides and one vis per slide.

- Imagine a 20-person college classroom full of women. All were sexually assaulted
- 19 (95%) wouldn't report
- 18 (90%) would know assailant
- 16 (80%) suffer chronic physical/psychological problems over time
- Etc

Other important stats:

<http://www.teenvogue.com/story/campus-sexual-assault-statistics>

“Nearly one in five students has seen someone behaving in a sexually violent or harassing manner. Of those who have, more than half said they did nothing and nearly one-quarter said they weren’t sure how to handle the situation. “

Men are more likely to be victims than to be falsely accused

Just include this text, it’s pretty powerful

Maybe have a drawing of many men side by side and have the “men” fill up. Or just have 2 stacked bars fill up.

Number of survivors visualization

Have a CountUp (<https://inorganik.github.io/countUp.js/>) showing the total number of survivors since 2002. Then draw a state/city (CT/Los Angeles?) to compare the number of survivors to the size of various places.

11/14. Coworking

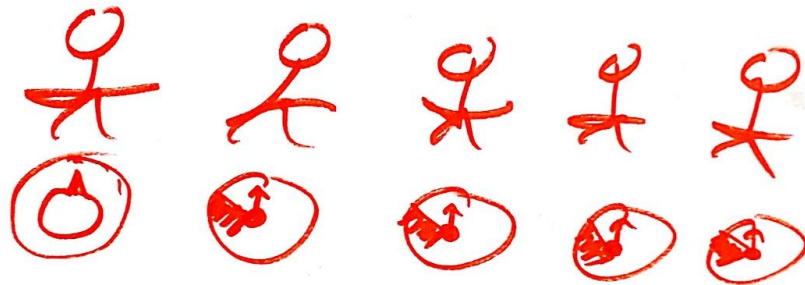
- Prototype is coming along well.
- Projects
 - Neel: structure frontend with storytelling
 - Got fancy one-page scrolling layout
 - Added attractive bootstrap
 - Added navigation around the scrolling layout
 - Javier: make line graph of police reports over time
 - DONE + merged
 - Working on factoring out into its own file
 - Next steps will be to create a visualization for the “% survivors statistic”
 - Enrique: viz of varying rates over time
 - Merged
 - Added bar graph visualization showing rates of crime in the United States
 - Looking into other creative visualizations to compare rates of other crimes and sexual assault in order to enhance storytelling and highlight how big of a problem it is within the context of crime in the United States
 - Peter: make visualization with dots for each survivor, built up over time
 - Looking into pack layout in order to implement dot visualization
 - Next steps will be to find the best way to have dots appear on page as a transition and have them cluster up in a group as they appear
- Having some challenges getting people who aren't on version control to get their stuff on Git without having massive merge conflicts. Working on it.
- Encountering problems while merging different visualizations due to more than one visualization using the variable name. Currently working on cleaning up project and making visualizations into objects in order to avoid this problem.
- Brainstorming best way to approach the storytelling of this sensitive subject while still providing informative visualizations. We plan on actively consulting with our final project TF in order to make sure that we are able to achieve both goals.

11/10. Lecture

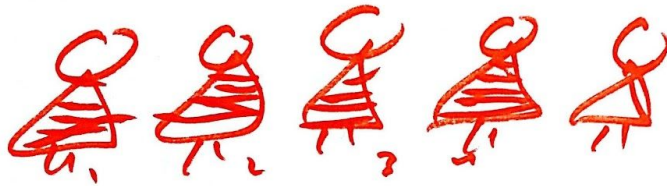
Customizing a visualization

- List of visualizations
 - Dots for every survivor
 - Choropleth
 - **Stacked bars**
 - Need to brainstorm.
 - line/area chart
- The stacked bar visualization
 - Showing various factors or shocking facts about sexual assault
 - E.g. 20% of women sexually assaulted in college
 - 90% of women know attacker
 - 95% of assaults unreported
 - User groups
 - General public who doesn't know much
 - Incentive to use
 - To explore, understand, be shocked, gain empathy
 - Brainstorms for redesigns
 - Have a bunch of women icons lined up, slowly fill them up to show shocking stats. E.g. fill in 9/10 women to show that 90% of victims know their attackers
 - Have a bunch of people icons lined up, color certain ones in to show the rates of sexual assault, robbery, etc
 - Line up a bunch of women icons and have a spinner under each. On click, spin each spinner - each one has a 20% chance of being sexually assaulted.
 - Beforehand we can ask people to consider 5 of their female friends, or enter a count of how many female friends they have
 - This is extremely emotional and builds a lot of empathy because it's so personal (you literally see people's fate being decided), but it might verge on too manipulative

20% of women get sexually
assaulted in college.



(Spinners, each one has a 20%
chance of landing on sexual assault
once you click or load page)



5 80% of victims were attacked

Acquaintance v	transitions
College?	
Alcohol?	

0000000000000000
0000000000000000

♀	♀	♀	♀	♀
♀	♀	♀	♀	♀

♀	♀	♀
♀	♀	♀

♀	♀	♀
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11/9. Coworking

- Todos
 - Get sexual assault data by state
 - Compile and start working with sexual assault trends
 - Prototype something with police report percent
 - Make a template
 - Imported! (enrique)
 - Clean up data: done!
 - [Got good datasets](#):
 - comparative-rates-over-time.csv: Rates of various violent crimes, per 1000 people, 1993-2012 (NCVS 2012)
 - percent-victims-over-time.csv: Breakdown of types of violent crime incidents (percentages), 1993-2012 (NCVS 2012)
 - report-to-police-percents.csv: Percent of each type of crime reported to police, various years (NCVS 2011, 2012, 2013)
 - violent-crime-over-time.csv: Count of number of each type of crime, 2001-2013 (NCVS 2006-2013)
- Up next
 - Add a dropdown (eventually a slider) to choose a year
 - Completed.
 - Prototype our “creative” visualization: dots for every survivor, with more dots joining every year
 - Prototype some simple bar/line chart
 - Make a responsive website

11/8. Studio & Data Wrangling

- Gathered data from National Crime Victimization Survey
 - Data from 2009-2013 come directly from the NCVS bulletins published by BJS. Currently, the links for these bulletins are:
[2009](<http://www.bjs.gov/content/pub/pdf/cv09.pdf>),
[2010](<http://www.bjs.gov/content/pub/pdf/cv10.pdf>),
[2011](<http://www.bjs.gov/content/pub/pdf/cv11.pdf>),
[2012](<http://www.bjs.gov/content/pub/pdf/cv12.pdf>), and
[2013](<http://www.bjs.gov/content/pub/pdf/cv13.pdf>).
 - We have data on the number and rate (per 1000 people) of sexual assaults for every year since 2001
 - Also have data on the percent of crimes (including sexual assault) that are reported to police
 - Sexual assault is the least reported of any of the major types of crime
- Trying to find data on sexual assaults by state

11/7. Team meeting to create detailed project plan

Detailed Project Plan Specs

1. Scan in a signed copy of a **'team expectations agreement'**.

The team expectations agreement should be a single piece of paper and include your names, and list the rules and expectations you agree as a team to adopt (e.g., preparation for and attendance at group meetings, making sure everyone understands all designs and code, communicating frankly but with respect when conflicts arise, etc.). Each team member should sign the sheet, indicating the acceptance of these expectations and intention to fulfill them.

Completed.

2. Detailed Project plan:

- Definition of **goals and tasks** of the final project (1-2 pages)
- A **description of your data** and where you will get the data from (at least concrete ideas on where to acquire the data)
- At least **3 sketches** of visualization ideas for your project
- An sketch of an **interaction storyboard**
- A sketch of your **webpage layout/storytelling**
- A **project timeline** (with milestones when you are planning to finish which feature)
- A **feature list** (with must-have, good-to-have, and optional items)
- A **description of team roles**

3. Start a process book, and submit your entries for the first week

4. Prepare slides for a **3 minute presentation** of goals/tasks/sketches/data for peer feedback in your studio and include the presentation slides in your submission (DCE students: please prepare a 3 minute screencast instead)

- Started detailed project proposal:
 - <https://docs.google.com/document/d/1TXGG2jEpsLGSWPm1UIsMZP3SfLgIXRDgmObx2aSstjl/edit#>
- Determined approximate dates for parts of the project
- Created sketches and interaction storyboards, listed data sources, defined goals and tasks
- Separated individual roles in relation to the project
- Finalized team expectations agreement

- Created presentation:
 - <https://docs.google.com/presentation/d/1JKAGVdJRJVxf3TQGS-GoojQe0QATDPnmX6znqiu330I/edit?ts=58210912#slide=id.p>
 - did some practice/review/refinement
- Added more stuff to our GitHub
 - <https://github.com/hathix/cs171-final-project>
- Refined deliverables for submission

CS171: Detailed Project Plan

Neel Mehta, Javier Cuan-Martinez, Enrique Casas, Peter Youn

Goals and tasks

Sexual assault is a dangerous, complex problem across college campuses and the country. It's a topic that everyone needs to understand, and at the same time it is a very sensitive issue and as such needs to be discussed with utmost care. In this project, we will make a visualization-enhanced storytelling experience to help readers understand the magnitude of this problem, trends and patterns that expose the underlying reasons behind sexual assault, preventative measures, and steps we can take to start attacking the problem.

Drawing data from sources ranging from private colleges to the US government (e.g. the Department of Justice and the National Institutes of Health), we will create visualizations to explore how the problem has evolved over time and how various factors correlate with sexual assaults. We will consider parameters including geographic region, the role of alcohol, previous relationship with the assailant, location, gender, and sexual orientation of the sexual assault survivor. We will use compelling visualizations to show the severity of the problem at hand, what factors are really causing it, and what steps we can take to improve the situation at hand. While we realize that many of the preventive actions required may be difficult, if not simply impossible, for us to perform directly, increasing awareness of the problem and preventative actions can sway thought leaders and policymakers to start implementing these changes.

We will start our project by understanding the problem area through reading literature about sexual assault. We will then create a high-level storytelling arc to flesh out the story we want to tell readers and the emotions we want to evoke. Because this is a sensitive topic, we will be sure to use only appropriate, correct, and gentle language, ideally sourced from experts who have already developed messaging frameworks. Then, upon reviewing and cleaning up our data, we will craft our visualizations and insert them into the storytelling flow. Then we will adapt our creations to ensure that they are providing the right content, message, and (very importantly, given the importance of the topic) tone.

Description of data & where we'll get it

We've compiled lots of data from official government and nonprofit sources, including the following:

- [What is Sexual Assault?](#) (PACT5)
- [The Victimization of College Women](#) (US Department of Justice)
- [High-Risk Drinking in College](#) (National Institute of Health)
- [Sexual Assault on Campus](#) (US Department of Justice)
- [National Crime Victimization Survey](#) (Bureau of Justice Statistics)
- [Impact of Rape Reform Legislation in Six Major Urban Jurisdictions in the United States, 1970-1985](#) (Department of Criminal Justice)
- [Statistics about Sexual Violence](#) (National Sexual Violence Resource Center)
- [NCVS](#)

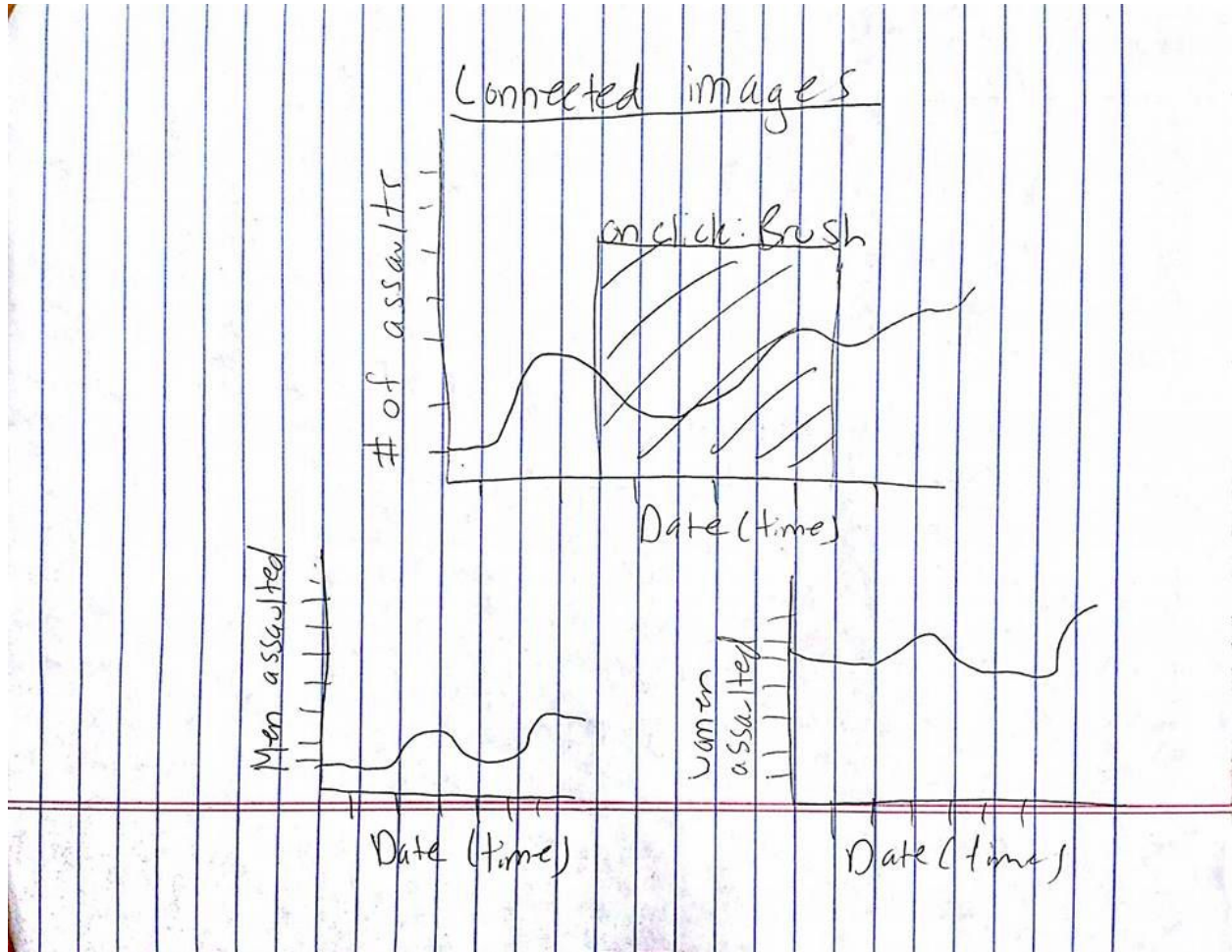
We want to get data about the prevalence of sexual assaults over time and across various demographics and regions. We also want to get data about factors involved in sexual assaults (e.g. if the victim knew the assailant.) We'll also want information on and off college campuses so we can draw comparisons.

As we convert these into CSVs, we'll put the data on our GitHub repository:

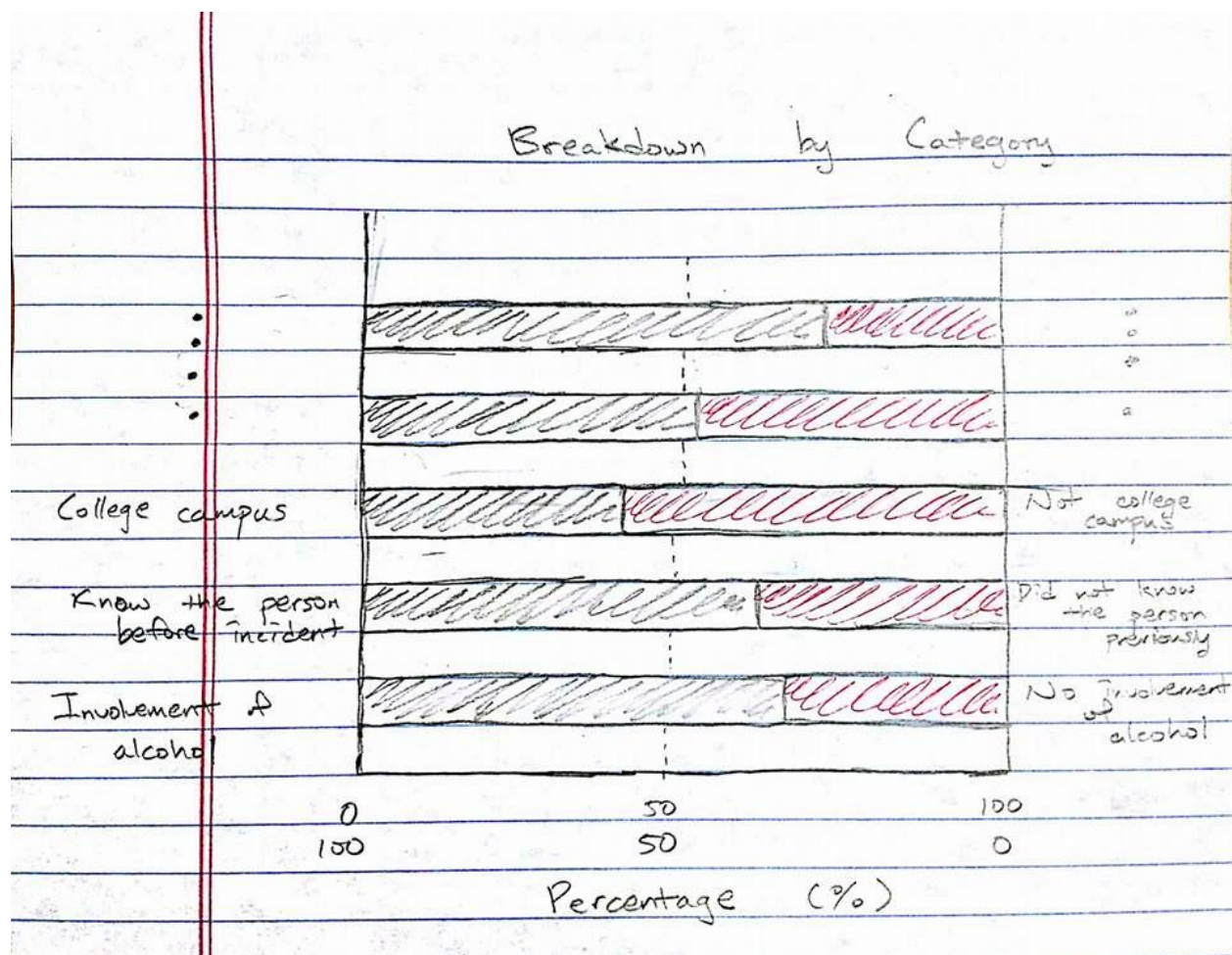
<https://github.com/hathix/cs171-final-project/tree/master/datasets>

Sketches of visualizations

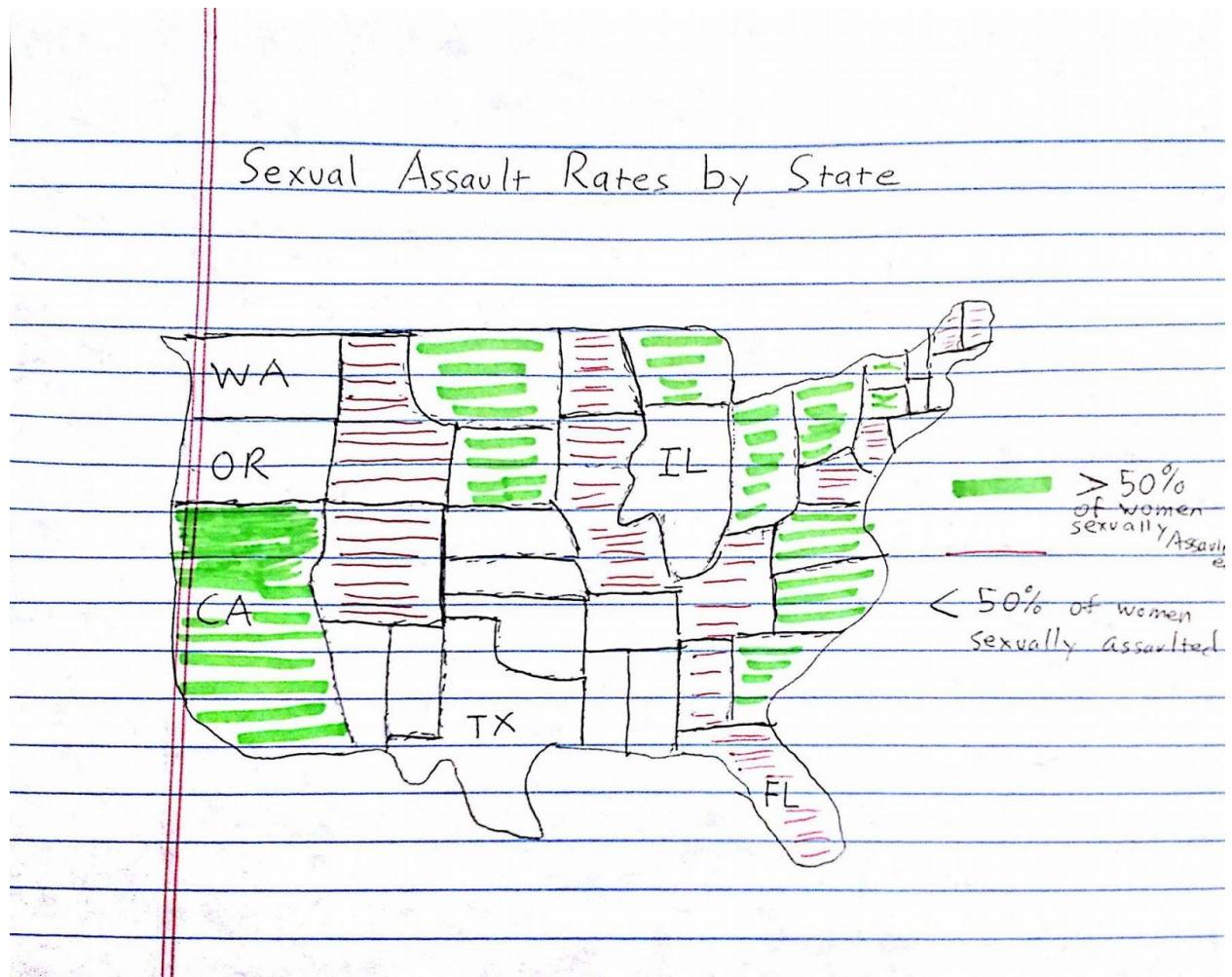
Timeline of sexual assaults & interaction storyboard



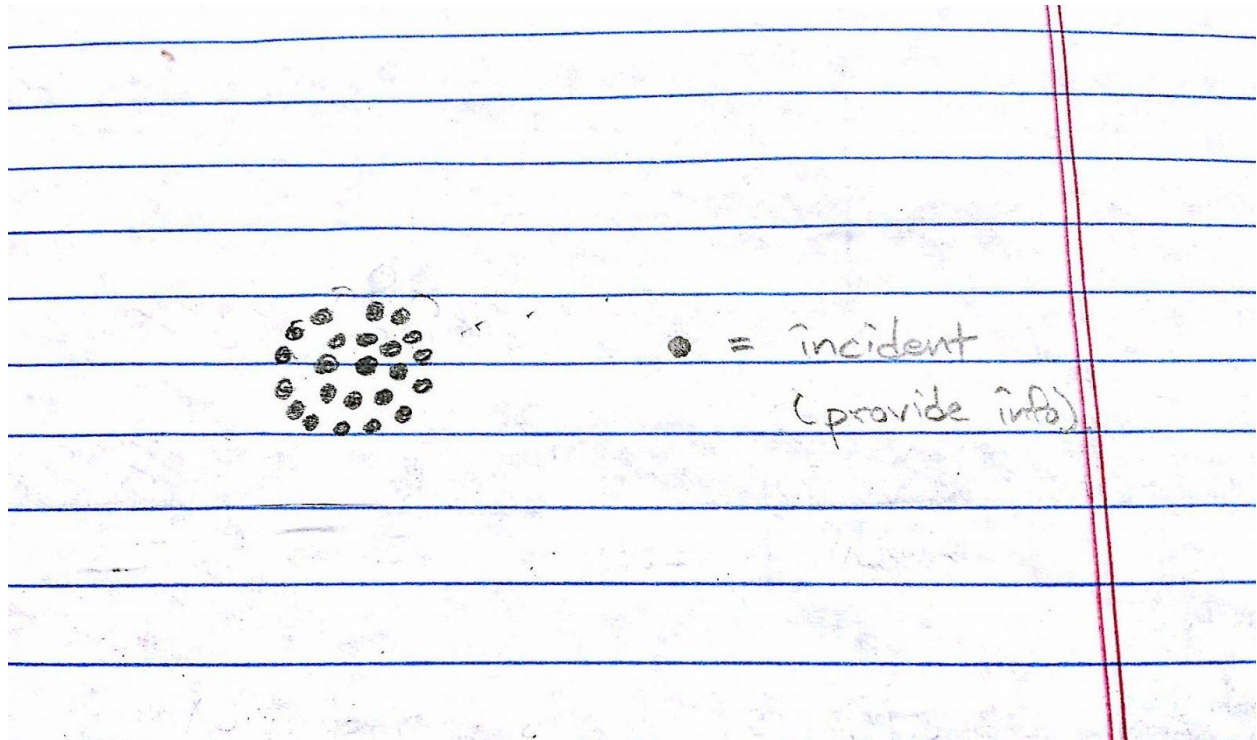
Comparison of factors



Choropleth of sexual assault rates

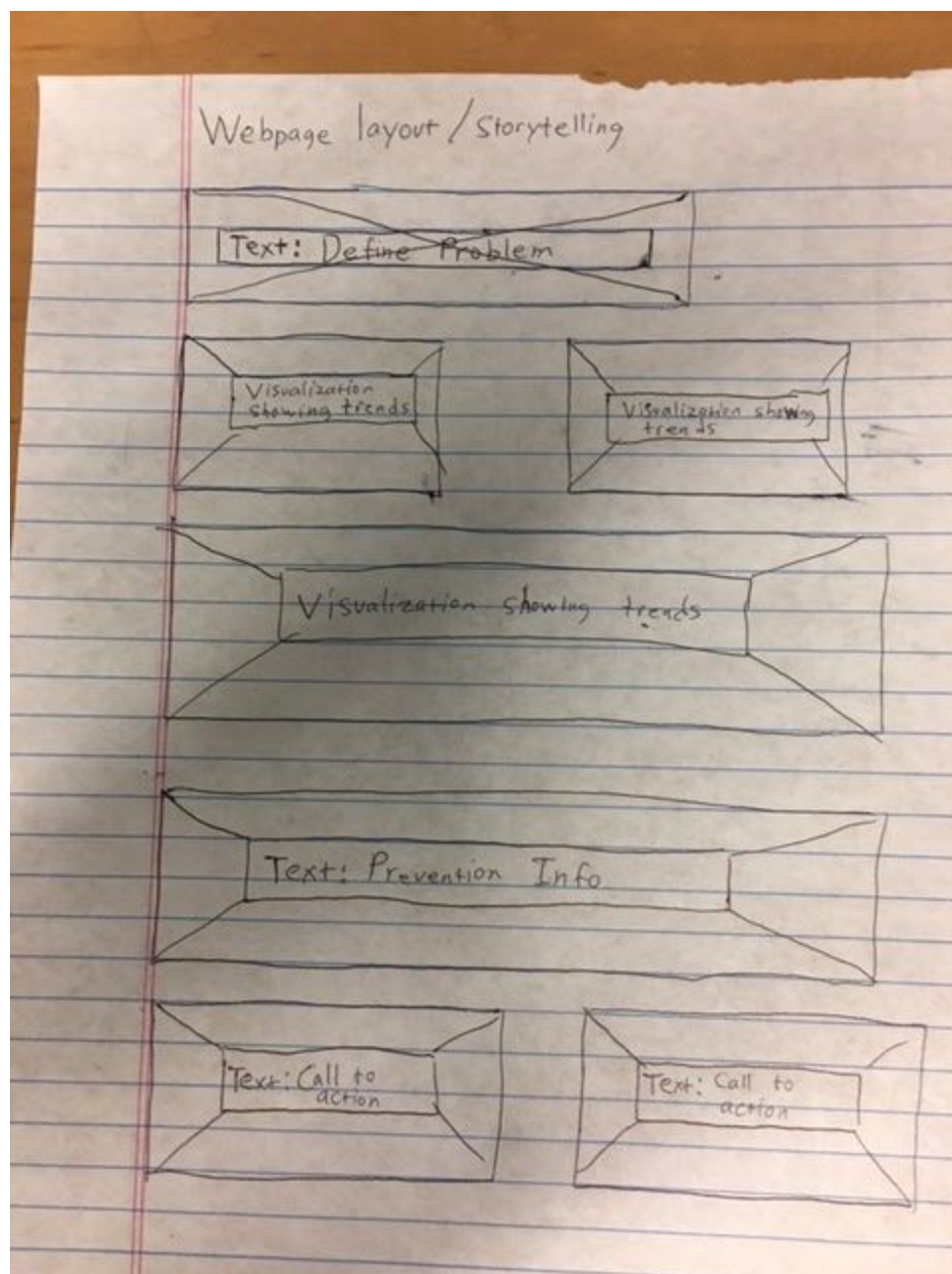


1 dot per sexual assault survivor

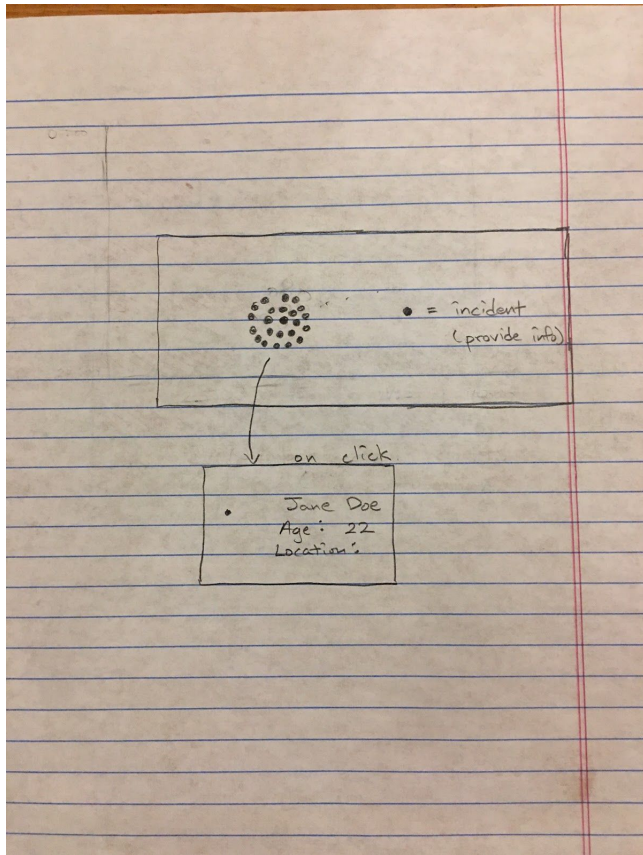


Sketch of website layout & storytelling

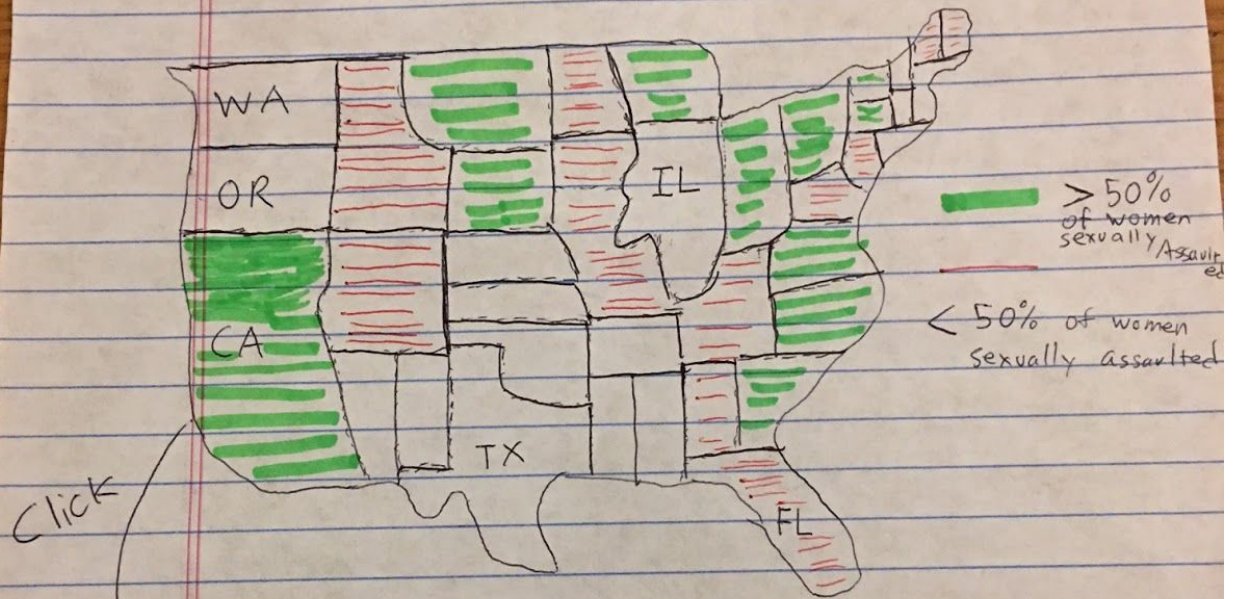
- Define problem
- Use visualizations to show trends
- Prevention information
- Call to action



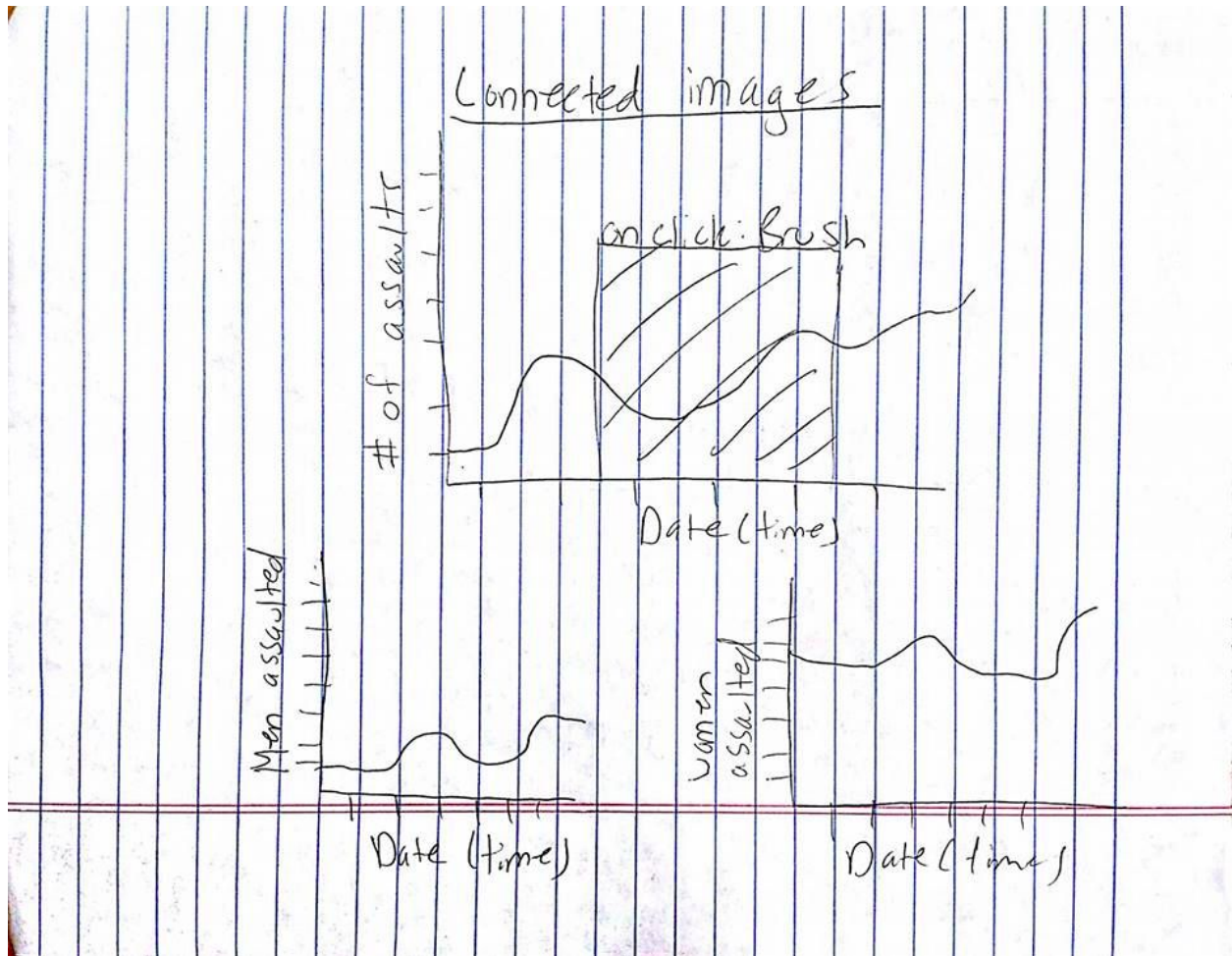
Interaction Storyboard



Sexual Assault Rates by State



California Breakdown	
Number of cases	
By Age	
By Race	
By City	



Project timeline

- Meeting every Monday and Wednesday from 4-6
- Have datasets as CSVs by Nov. 11
- Have a working prototype by the week of Nov. 14th
 - Seek feedback
- Improve prototype by Nov. 21th
 - Seek more feedback
- Have a working semi-final version Nov. 28th
- Final version: Dec. 4th

Feature list

- Must-haves
 - Timeline of sexual assaults
 - Linked visualizations
 - At least 3 visualizations

- Information about the scope of the problem
- Supporting stats, quotes, factoids from various resources
- Prevention information
- Advanced visualization
- Raw CSVs
- Text/image resources from trusted sources
- Nice-to-haves
 - Other visualizations
 - Information about prevention
 - Call-to-action
 - Nice color scheme
 - Dropdown menu in which we can choose which category to filter
 - Definition of consent
- Optional
 - Links to resources for sexual assault survivors
 - Donation or other ways to raise money or awareness

Description of team roles

All team members will work together on each part of the website

Name	Responsibilities
Javier Cuan-Martinez	Data Wrangling: Will be in charge of cleaning raw data and formatting in such a way that it is easier to use in the visualizations.
Neel Mehta	Target: Will be in charge of deciding which datasets to use, which visualizations to create, and the general storytelling and messaging of the page. Implementation: Reviewing everyone's code for the visualizations and website, offering feedback, and organizing into the final page layout.
Enrique Casas	Design: Will be in charge of general style of the project (CSS and aesthetics), as well as designing the structure and UI design of the webpage. Creating a messaging framework and ensuring we have the right tone and mood is key.
Peter Youn	Evaluate: In charge of testing the visualizations and ensuring that the story that is being presented is appropriate, understandable, and flows well. Will provide feedback to other team members and work with TFs/peers to gather their feedback.

11/3. Lecture

Elevator pitch

- Problem
 - *Sexual assault is a dangerous, complex problem across college campuses and the country. We don't know what underlying factors are causing it - what's the role of alcohol, being in college, demographics, or regional factors?*
 - Sexual assault is a big, thorny, complex problem - we don't know what underlying factors are causing it, and we need to attack it at the root
 - Role of alcohol
 - Knowing the other person
 - Being on college campus
 - Demographic
 - Regional
- Solution
 - *To answer that, we made an interactive visualization that lets you find correlations and pinpoint which factors are the biggest causes of sexual assault.*
 - Integrated, interactive visualization that lets you find interesting correlations between these factors and sexual assault rates to pinpoint factors in sexual assault
- Benefit
 - *With this, we can create better targeted policies to attack the most critical factors at the root.*

Sexual assault is a dangerous, complex problem across college campuses and the country. We don't know what underlying factors are causing it - what's the role of alcohol, being in college, demographics, or regional factors?

To answer that, we made an interactive visualization that lets you analyze real-world data to find correlations and pinpoint which factors are the biggest causes of sexual assault.

With this, we can create better targeted policies to attack the most critical factors at the root.

Datasets to investigate

- Sexual violence (college + national)
 - <https://catalog.data.gov/dataset/campus-sexual-assault-csa-study-4aa5d>
 - <https://catalog.data.gov/dataset/sexual-victimization-of-college-women>
 - <https://catalog.data.gov/dataset/webinar-sexual-assault-on-college-campuses-e7bcd>
 - <https://catalog.data.gov/dataset/national-sexual-violence-resource-center-nsvrc>
 - <https://catalog.data.gov/dataset/campus-sexual-assault-how-americas-institutions-of-higher-education-respond-a13f1>
 - <https://catalog.data.gov/dataset/national-intimate-partner-and-sexual-violence-survey-nisvs>
 - <http://www.jrsa.org/dvsa-drc/available-data.shtml>
 - <http://www.jrsa.org/dvsa-drc/sa-data.shtml>
 - <http://www.nsvrc.org/publications/resource-pages/data-sets-and-related-violence-against-women>
 - <http://catalog.data.gov/dataset/resolutions-related-to-sexual-violence>
 - Statewide data: http://www.cdc.gov/violenceprevention/nisvs/state_tables.html
 - Pdfs
 - <https://www.ncjrs.gov/pdffiles1/nij/182369.pdf>
 - <https://www.ncjrs.gov/pdffiles1/nij/grants/221153.pdf>
 - Raw data
 - <http://www.jrsa.org/dvsa-drc/available-data.shtml#national>
 - <http://www.jrsa.org/dvsa-drc/available-data.shtml#state>
 - <https://wonder.cdc.gov/>
 - National crime victimization survey: <http://www.bjs.gov/rawdata.cfm>
 - Sexual assault on campus: <https://www.ncjrs.gov/pdffiles1/nij/182369.pdf>
 - Example of visualizations: <http://pact5.org/what-is-sexual-assault/>
 - <https://www.collegedrinkingprevention.gov/media/FINALPanel1.pdf>
 - <http://www.nij.gov/publications/pages/publication-detail.aspx?ncjnumber=205521>
 - Other useful datasets
 - Harvard's sexual assault survey:
<http://sexualassaulttaskforce.harvard.edu/Final-Report>

10/31. Deciding a project

Brainstorming and initial voting

Everyone gets 5 “1”s to distribute to ideas:

Yelp - reviews, tips, biz attributes	
Bullying	11
Food waste	1
Military drone strikes in pakistan	
Campus safety and security	111
College scorecard	
Student debt	111
Free and reduced price lunches	1
Census dataset	
Youth drug use	
Hospital procedure costs	
Medicare healthcare spending	1
Police brutality	111
American community survey	
Rising rents in neighborhoods (gentrification)	1
Public housing costs	
Food data	
Sexual violence	111
Harvard sexual assault data	1
Campus crime stats	1
Food atlas	
Potential for renewable energy	
Crimes every year in chicago	
Leading causes of death	
Baby names by mother's ethnic group	1

Demographics by zip code	
Sat scores	

Final voting

Everyone gets 2 “1”s to distribute to ideas:

Bullying	1
Student debt	1
Police brutality	11
Sexual violence (college + national)	1111

Dataset brainstorming

- Bullying
 - <http://research.cs.wisc.edu/bullying/data.html>
 - <http://www.chatcoder.com/DataDownload>
- Student debt
 - <https://catalog.data.gov/dataset/college-scorecard>
 - <https://catalog.data.gov/dataset/consumer-complaint-database>
 - <https://catalog.data.gov/dataset/2000-baccalaureate-and-beyond-longitudinal-study>
 - <http://www.nytimes.com/2015/09/11/upshot/new-data-gives-clearer-picture-of-student-debt.html>
 - <https://catalog.data.gov/dataset/federal-student-loan-program-data>
- Police brutality
 - <http://www.nytimes.com/topic/subject/police-brutality-misconduct-and-shootings>
 - <http://www.policebrutality.info/2011/04/police-brutality-statistics.html>
 - <http://mappingpoliceviolence.org/>