Hello~ Our team name is chow mein, and we got a topic about water pollution in California states.

These are the index of our presentation. Reason chosen this topic and made movie, how to collect data and data visualization.

These day, many people are interested in environment, and water pollution problem is the hot issues. So, we wonder people behavior effect in environment.

We showed the movie at first part, because we want to visualize fluid data and developing web app was hard and took many times in hackathon day.  
  
This is the dashboard of tableau. Left California map showed you the which place\_type give more effect on pollution. The first is Utility, second is Industrial and Commerical facility.   
Below graph showed the California map chart to bar chart.  
This graph shows that urban rate affects the toxic percent.   
Percentage of x value means progress of urbanization.  
25%, 50%, 75% are almost same. But 100% urban area is higher than others.  
Right graph is the chart of pollution rate per year. From 2008 to 2012, pollution rate was grew up, after 2012 rate was reduced. Also, violation of pollution rates shows decrease phenomenon

We used three tables from data.gov website and collected various datas.

Our team focused on three concepts. Collecting, Searching and Showing.   
We gathered violation case counts using “ViolationID” columns. We showed the map using latitude and longitude from tables and searched average pollution rate per year and per landusecategory

Next part is the visualization. So Taehyung Kwon will introduce to you