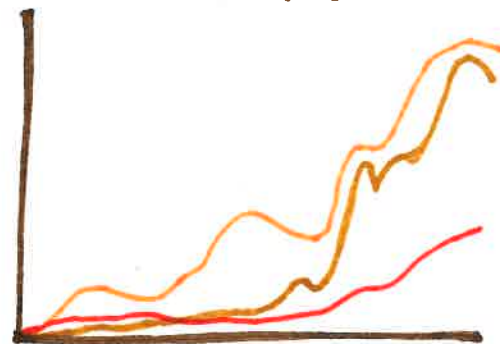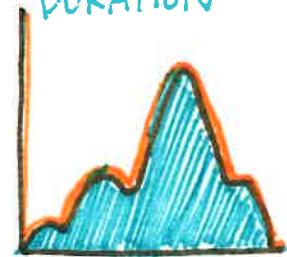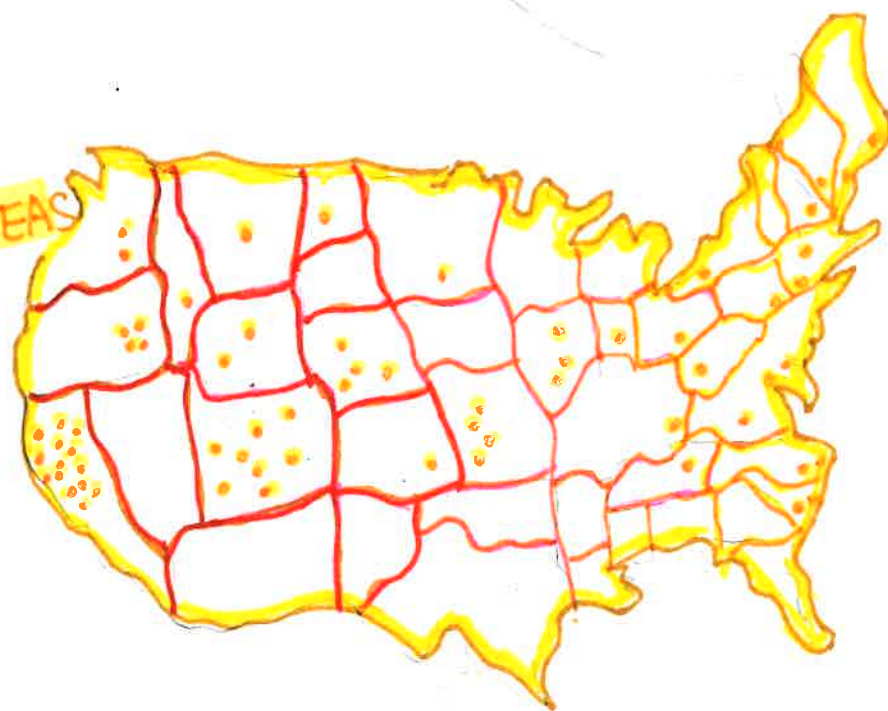UFO REPORTS BY YEAR

BY SHAPE

DURATION

IDEAS

- What areas of the country are most likely to have UFO sightseeings?
- Are there any trends in UFO sightseeings over time? Do they tend to be clustered or seasonal?
- Do clusters of UFO sightseeings correlate with landmarks, such as airports or government research centers?
- What are most common UFO descriptions?

● LAYOUT ⭐

color - UFO Reports per 100,000 people in U.S. (1000 km²)

by time (year, month, day of week)   angle - by country   length - by population/area

time

↑ 💡 ideas cont.

● FOCUS/ZOOM

SHAPE   **DURATION**   ← color: time
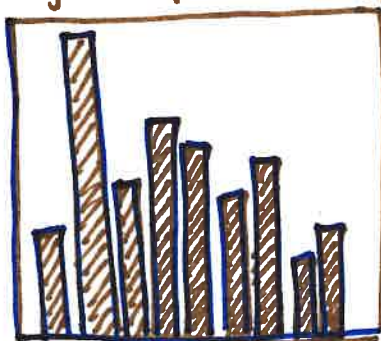
shape: shape   size - duration

other variables:
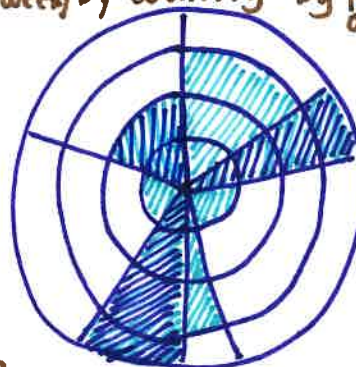- difference between the sightseeing & the date posted

● TITLE
UFO sightseeings in U.S. viewing through geo map

● TASK
show the relationship between geo data and quantity of shape/duration, clustering etc. in U.S. map
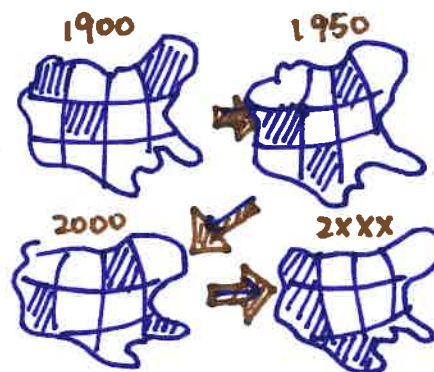- allow interaction to further zoom in the details in particular geo areas

● OPERATION
/# ANIMATION! */
- zoom in/out would display details in that particular region based on shape/position/duration in multiple views
- shape of the data point, sequential color - time...

● DISCUSSION
- how about oth data attributes like date posted? (date posted - date discovered?)
- clustering makes the individual point hard to observe
- is time good for color mapping?
- the implementation of the animation? (time lapse, color etc.)

1900   1950

2000   2XXX

✸ ANIMATION ⭐⭐ ⭐
A changing map based on time line, individual data points distributed based on time
(can also do shape/duration)
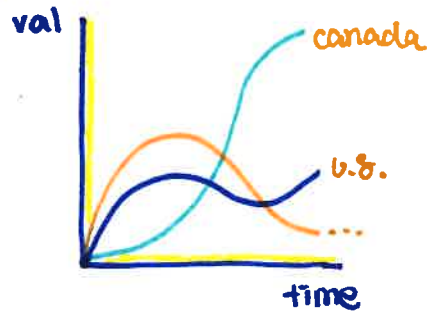/# Animated from the first year to the last year. */

● LAYOUT (TEXT)

· wordcloud?

light
seen oval moving large
       east bright white
one speed Sky fast red
     observed lights report
              low

scary
bright fast large
       Sky
friendly

size-frequency
color-?
on a map?
corresponds to
individual data point?
mouseover-?
POSITIONING?

⚠ OPERATION

· click on a state
may zoom out/in
more specific
details about
that state.

· moving the mouse
/cursor may provide
additional coloring/
highlight of that text

▣ TASK

· to display descriptions
of the reports by its
corresponding positions

· to identify possible
correlation between
geo & text.

▼ DISCUSSION

· How to choose these word is difficult.? frequency?
figure of speech etc.
· clustering may make the text hard to visualize
· don't expect any correlation between description
and other data attributes.
· how to clean up text data?
· how to position it to reduce clustering?

◐ LAYOUT (〰) (lineplot)

val

canada

u.s.

...

time

★ ORERATION

· click, expand to its
children's lineplot
· shift + click, back to
its time plot
· (val would be view
in density (/1000km²)
e.g. or (/100,000 popu
-lation)

◆ DISCUSSION

· how should we assign the color?
· too many children for states in u.s.
- limit the children's leaf level to country?
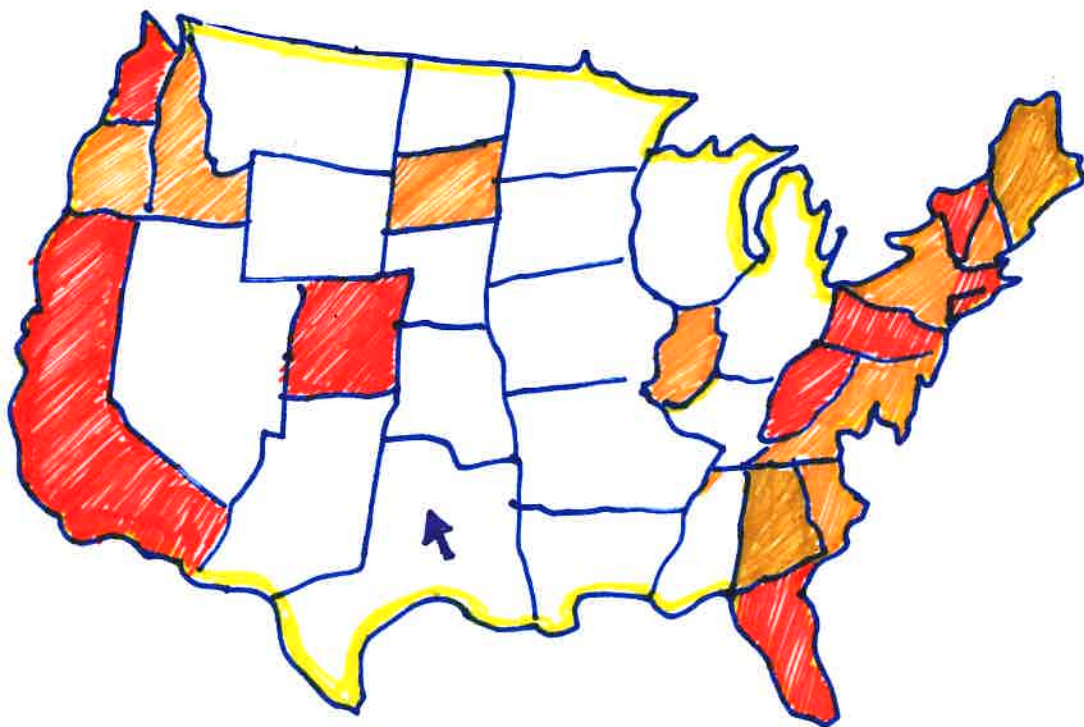· frequency, time duration val as y-axis

▲ TASK to identify pattern / correlation.
between time and another variable.
compare & contrast between
different region.

Final (Basic) Visualization

LAYOUT

the map has sequential color by the quantity of data in a state (/population or area)

OPERATIONS

- click a point (a state) then display the three charts on the right side of the U.S. map
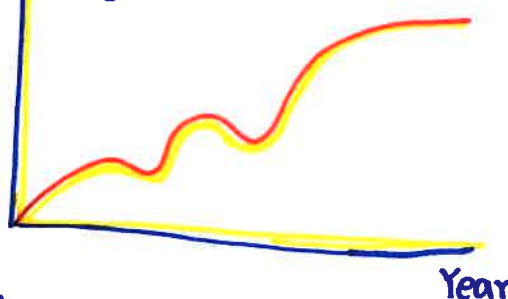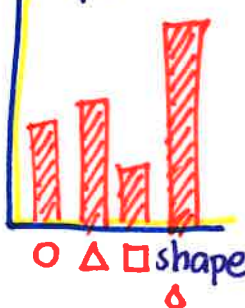- hover through map would highlight the selection.

DETAILS

- the scale of the x-axis of duration subgraph would be log scale since most data's duration is short wheras some are really long
- the map would color based on LAB sequentially
- time scale in the time graph
- aggregate data based on state's population/area

Texas time

Year

By (shape)

O △ ▢ shape
◇

By (duration)

duration

DISCUSSION

- Additional (optional features) /Interaction
- zoom (in/out) • animation • display individual data on map
- world map /other countries (Germany, Canada, Great Britain)
- No text analysis • simultaneously click on multiple states

- how to set up the scale of the axes... (duration, log, scale?)
- too many shape categories