Brainstorming

Maps

Map of US
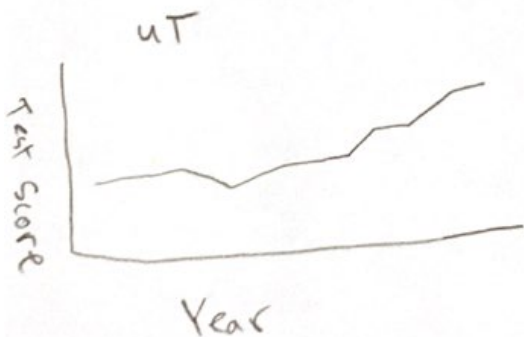
English

"Stack Bar" chart in each state for subjects.

Reading

Math

OR

group Bar   Graduated Symbols

saturation

for overall, Scores Nation wide.

or show stacked tests scores and funding

use squares for each state to deal with different shapes & sizes

ON State Click show historical scores

WA   ID
OR   NV
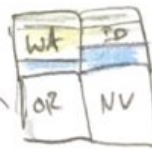
use SIZE to encode funding Variable

WA   OR

CA   NV   UT

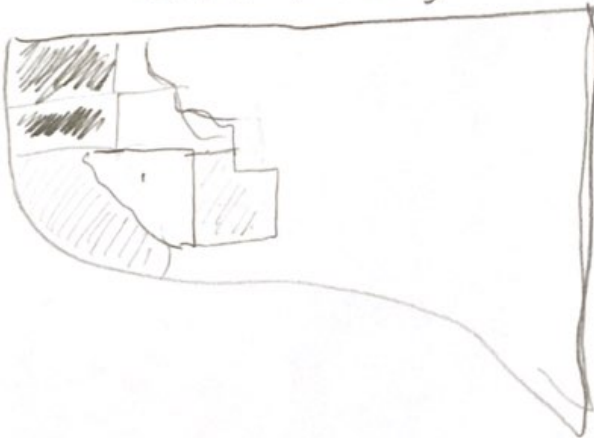UT
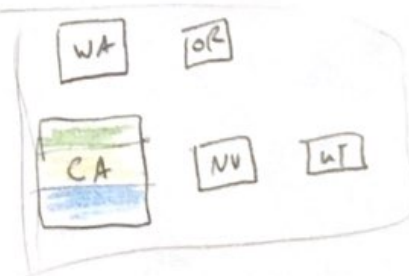
Test Score

Year

Simple Heat map

Initial Design 1
Juxtapose Heatmaps

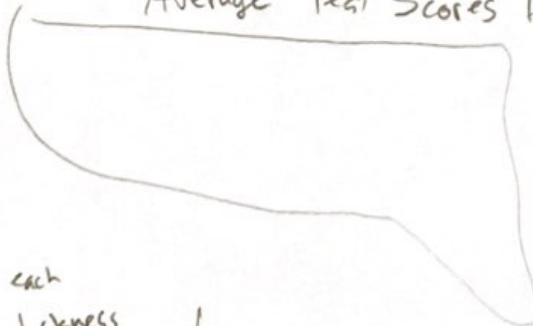Drop down to select year

2018 ▾

School Funding
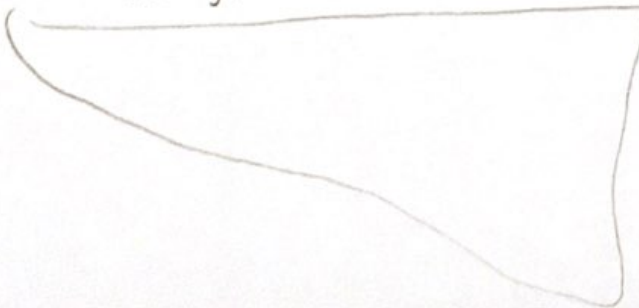

← Heatmap of school funding.

Darker color for more funding

↓

Average Test Scores Heatmap

←

3 colors for each subject and darkness of the color shows margin of subject.
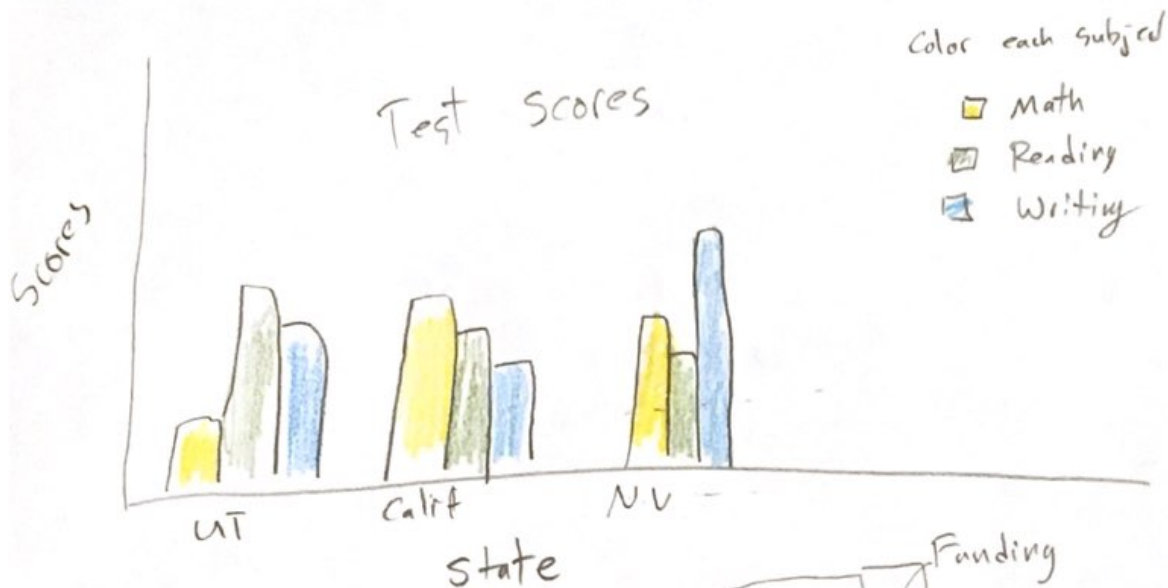
↓

Strongest Subject

PROS: - we can tell a story with each map,
- Not too cluttered

CONS: - Not good on space

- use of memory required jumping between maps.

Initial Design 2

Grouped Bar charts and Table

Test Scores

Color each subject
- ☐ Math
- ☐ Reading
- ☐ Writing

Scores

UT   Calif   NV

state   Funding

State	Math	Reading	writing	Overall	
Utah	20	50	31	60	4100
Calif.	30	22	37	50	90
~					

Pros.. Less space used.
- A lot of info available

Cons: Loss of spatial correlation

Not Really eye catching or attention holding

Initial Design 3
Symbol   Map

- 🟨 Math
- 🟦 Reading
- 🟩 English

Click

Select State for a   Funding Comparison

Test Scores   Funding

↑ california test scores   ↑ California Fundin
↑ National Average   ↑ average funding
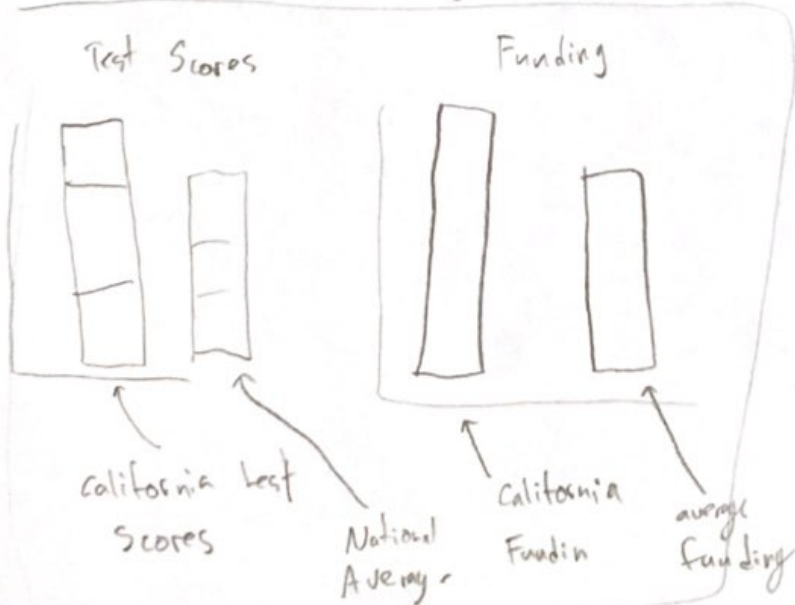
PROS: We can see all the scores for each state.
. If we stack them we can also see the Best overall.

Cons: Hard Compare funding between the states.
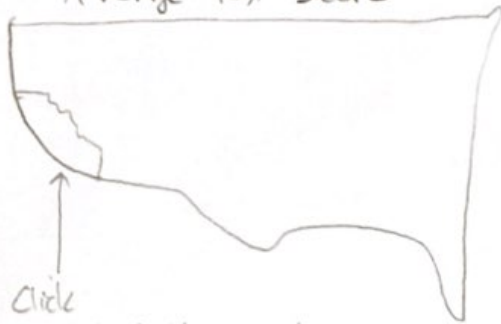
- Clutter on Map.

Final   Prototype

Justapose Heatmaps with Interactive graphs

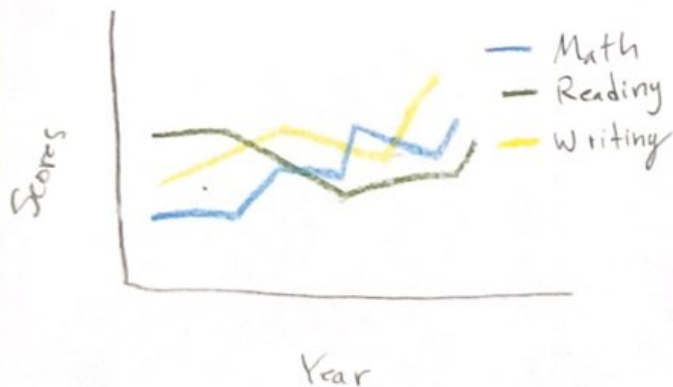### (MAP 1)
Average Test Score

Click
and highlight states on Both maps
(outline)

(MAP 2)
Funding By State

SELECTIONS

Year	v

Map 1	v

Map 2	v

If Clicked on one state Clicked
CA. Scores over time

— Math
— Reading
— Writing

Scores

Year

I 2+ States Clicked

Math
Reading
Writing
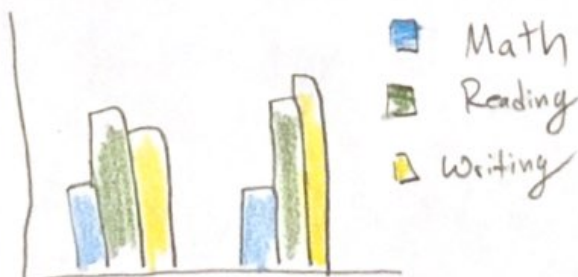
PROS!   this takes up
less space than #1, and
is easier to compare the
two values we want to
Side by side,
- More info is provided when
needed.

CONS: May be a better way
to compare 2 attributes on
the Same Map.
→ 2 maps Requires Memory.