1. Ideas

- chloropleth showing areas of highly active conflict

- time based → use slider?

- simultaneous highlighting of price contributions and conflict

- area graph with selective highlighting for pricing contribution. line chart?

- volume contribution instead of price?

- use a glyph for a callout?

- several areas of focus → saturation may indicate relative contribution

- have play option instead of or in addition to a slider?

- hovering over an area should call out history

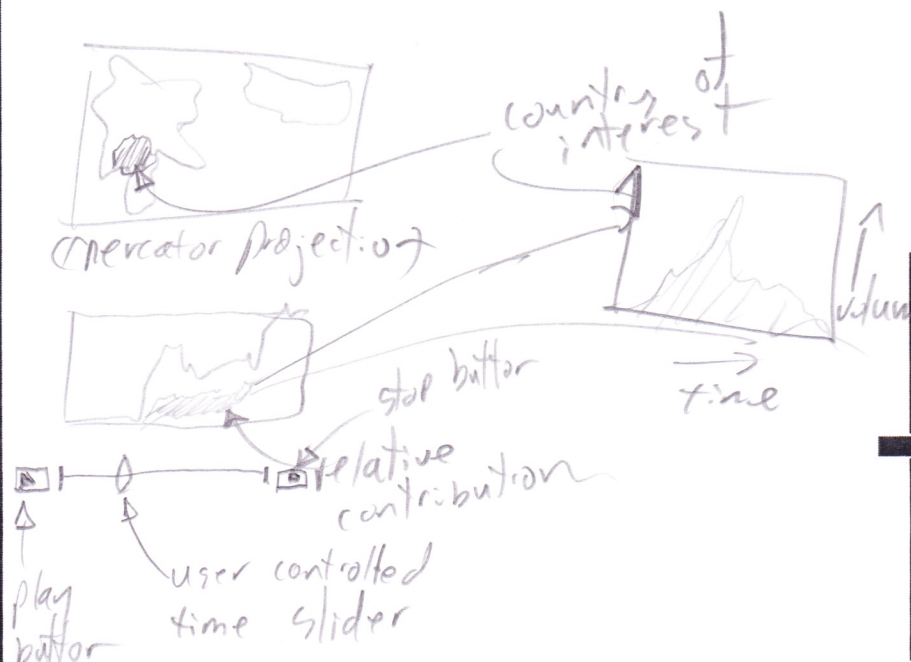- heat map with axes determined by political sphere + conflict activity

2. Filter

- use time slider to progress vis

- volume in certain currency better than price

- no glyph, but maybe hot link to drill down to specific data

- show area graph and chloropleth simultaneously

- background should include price but should not be focus. volume is better

3. Categorize

- price data (quantitative)

- volume data (quantitative)

- country contribution (categorical)

- relative contribution (quantitative)

- time based aspect (quantitative)

4. Combine and Refine

mercator projection

countries of interest

volume

time

stop button

relative contribution

play button

user controlled time slider

5. Question

Layout
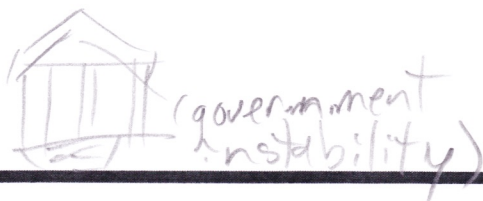
time

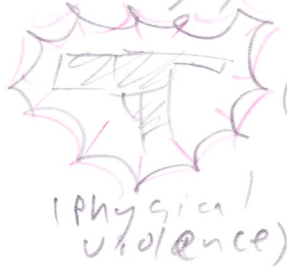(Mercator projection
of the world)

Title: Map Projection
Auther: Jason Orender
Date: 18 oct 17
Sheet: #2
Task: Flesh out Map

Operations

- the individual countries should be clickable for extra info
- a slider to move through time
-

Focus

- Add a glyph representing the type of activity?
- possibly just symbology iconography as opposed to glyph

(financial chaos)

(physical violence)

(terrorism)

(government instability)

Discussion

- This would take up a lot of space
- location is important because the same event may impact multiple countries in close proximity

Layout

Forex Rate

(← □ → ————————) time

Exchange Rate Vs US$

Operations

- the time slider controls this graph as well
- hovering over a spot should provide a callout on the graph
- selection of a country in map view should provide

Focus

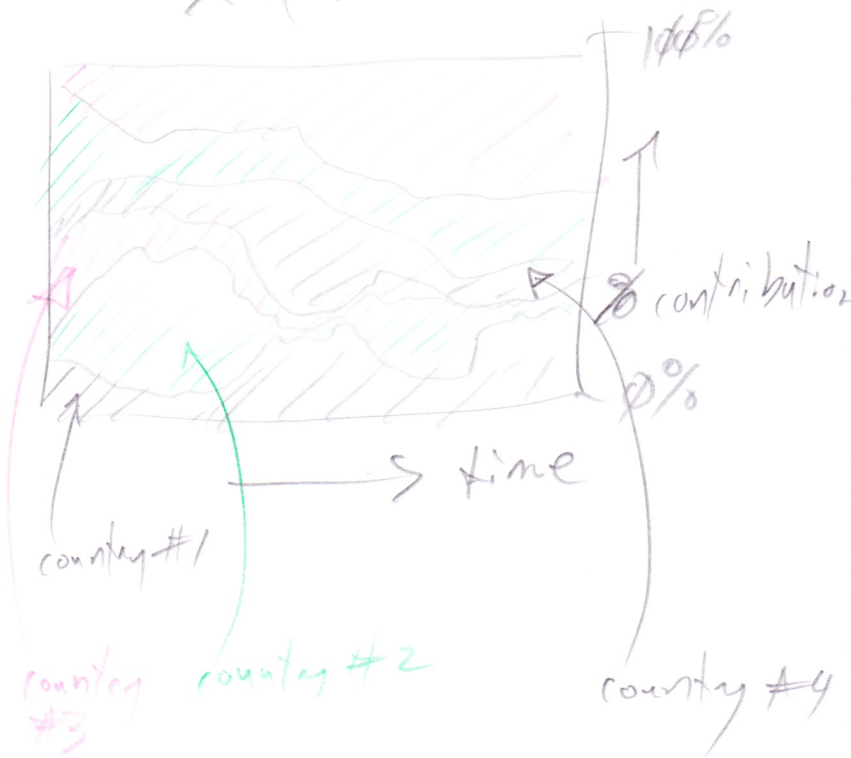← select country

see specific forex graph

Discussion
focus here, as well!

- this will provide a moving window of forex rate vs. time, with a window about a month wide
- slider should (control) the midpoint of the window

Layout

sand Plot

100%

% contribution

0%

→ time

country #1

country #3 country #2

country #4

Operations

- normalized area chart (sand plot) used to describe each country's relative contribution to crypto-currency price

- Always visible
- takes up full width of display

Focus

- not tied to time slider or map view

- should provide an unchanging overview of the entire time period being considered

- iconography could also be super-imposed here, but probably as an overlay that could be turned on and off to avoid overcluttering the display

Discussion

- based on local bitcoins data
- color coded to country

Layout

} scatter plot

} map

} forex detail

time slider

Operations

- Moving the time slider and selecting a country will update the lower part of the screen.

- Some iconography should also be visible on the top portion to provide guidance on when/where might be of interest

Focus

- data is largely already gathered

- iconography will take some work, but in general should not take long

- coding the map and graphs in D3 will take the most time and effort

- some refining of the data will also be necessary to ensure that all times are synchronized between data sets

Detail

- country-specific data will be derived from localbitcoins data and Google Trends

- Forex data will come from Yahoo Finance

- Bitcoin pricing/volume data will come from blockchain.info data