ACCESSIBILITY

A WORD ABOUT ACCESSIBILITY

A table can be translated to Braille, but that's not always possible for charts.

Describing the features and emerging structures in a visualization is a possible solution... **if they can be spotted.**

Analysts must produce clear and meaningful visualizations, but they must also describe them and their features in a fashion that allows all to "see" the insights.

This requires them to have "seen" all the insights, which is not always necessarily the case (if at all possible).

A WORD ABOUT ACCESSIBILITY

Data Perception:

- texture-based representations
- text-to-speech
- sound/music
- odor-based or taste-based representations (?!?)

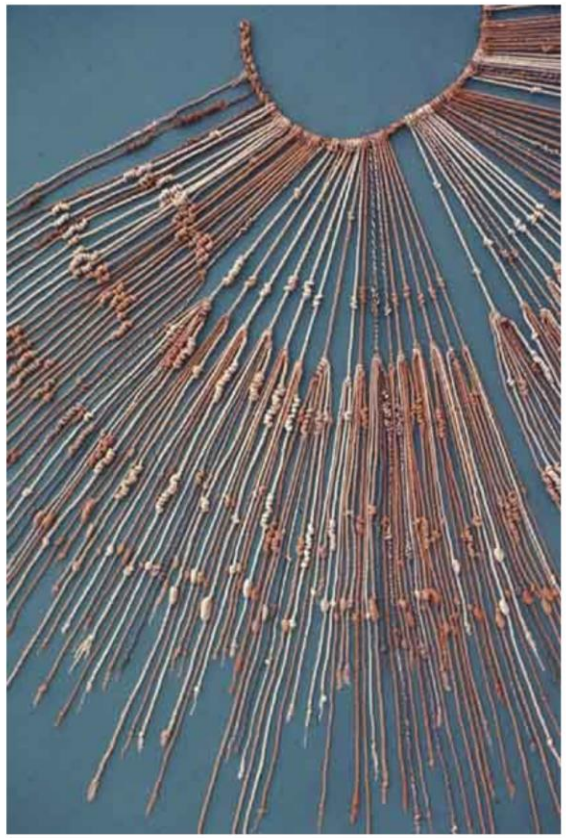
Sonifications:

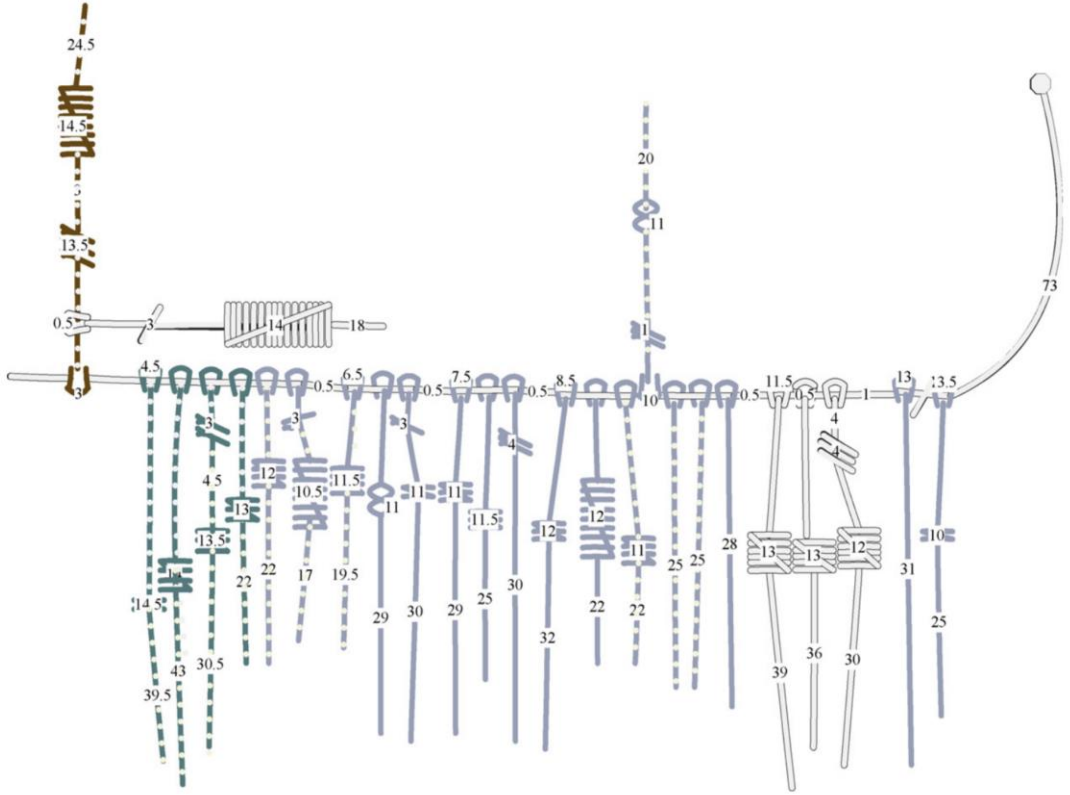
- TRAPPIST Sounds : TRAPPIST-1 Planetary System Translated Directly Into Music
- Listening to data from the Large Hadron Collider, L. Asquith

PHYSICALIZATIONS

Inca Quipus

- used as a data storage device
- it is believed that **color**, **relative position of knots**, **knot types**, and **rope length** were used to encode the variables.

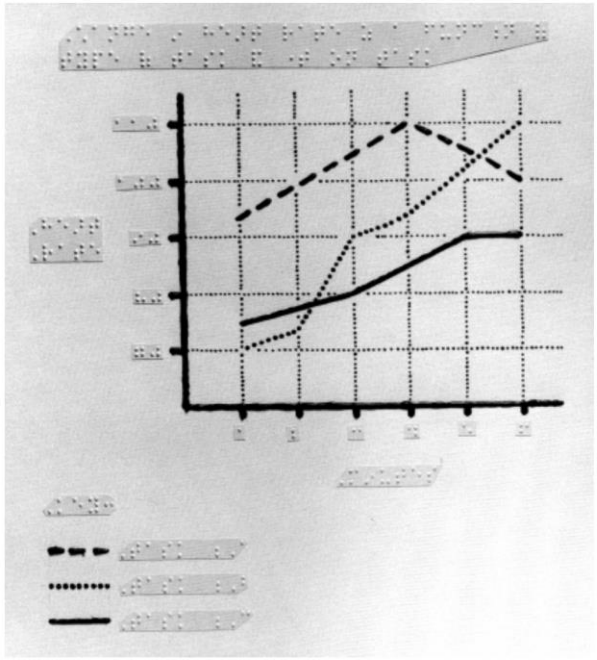


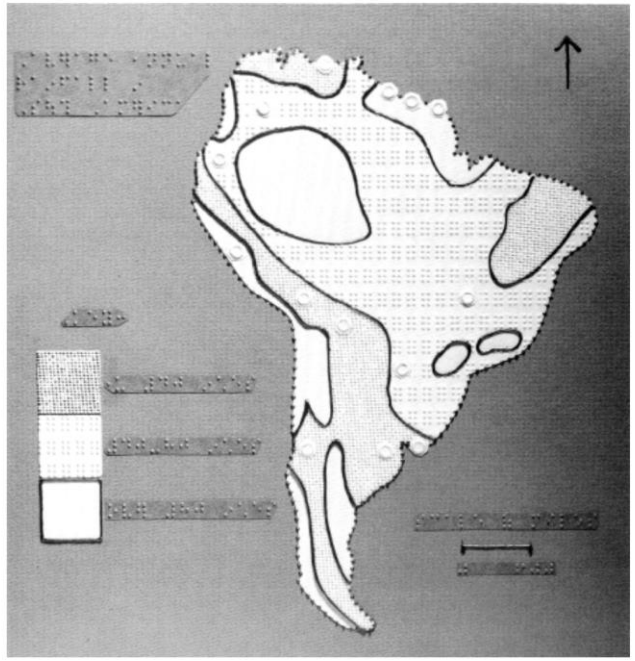


PHYSICALIZATIONS

Tactile Infographics

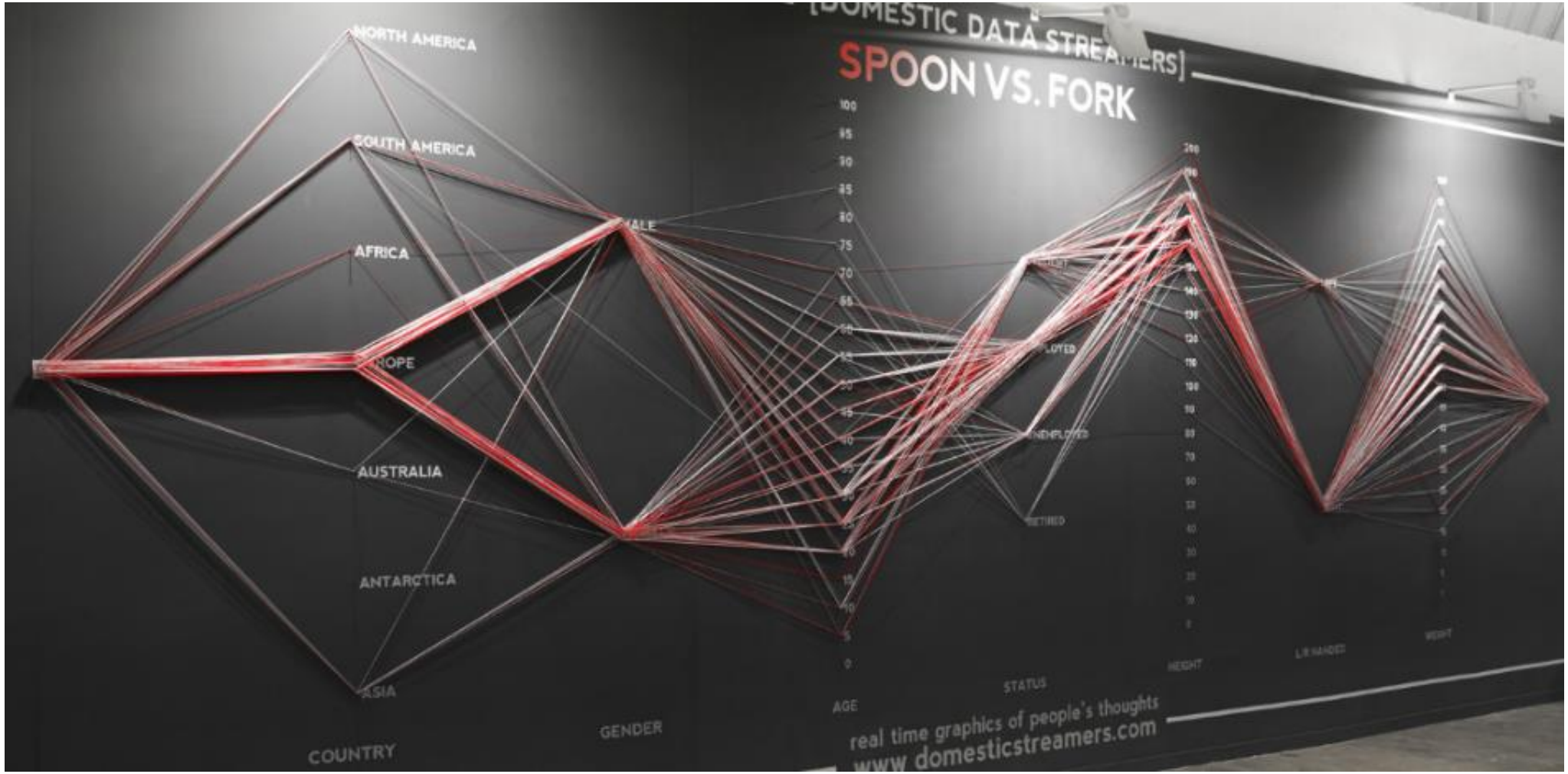
- **thermoform:** heated sheet of plastic sealed on a physical model
- **swell paper:** thermoform-lite
- **tactile map variables:** vibration, flutter, pressure, temperature, size, shape, texture, grain, orientation, and elevation.
- **audio tactile maps:** use software with audio files to convey information as the user's finger rolls over features or symbols





[domesticstreamers.com]

Spoon vs. Fork



Are there any issues with data collection? Where do you think this event took place? Is the spoon/fork question a red herring?