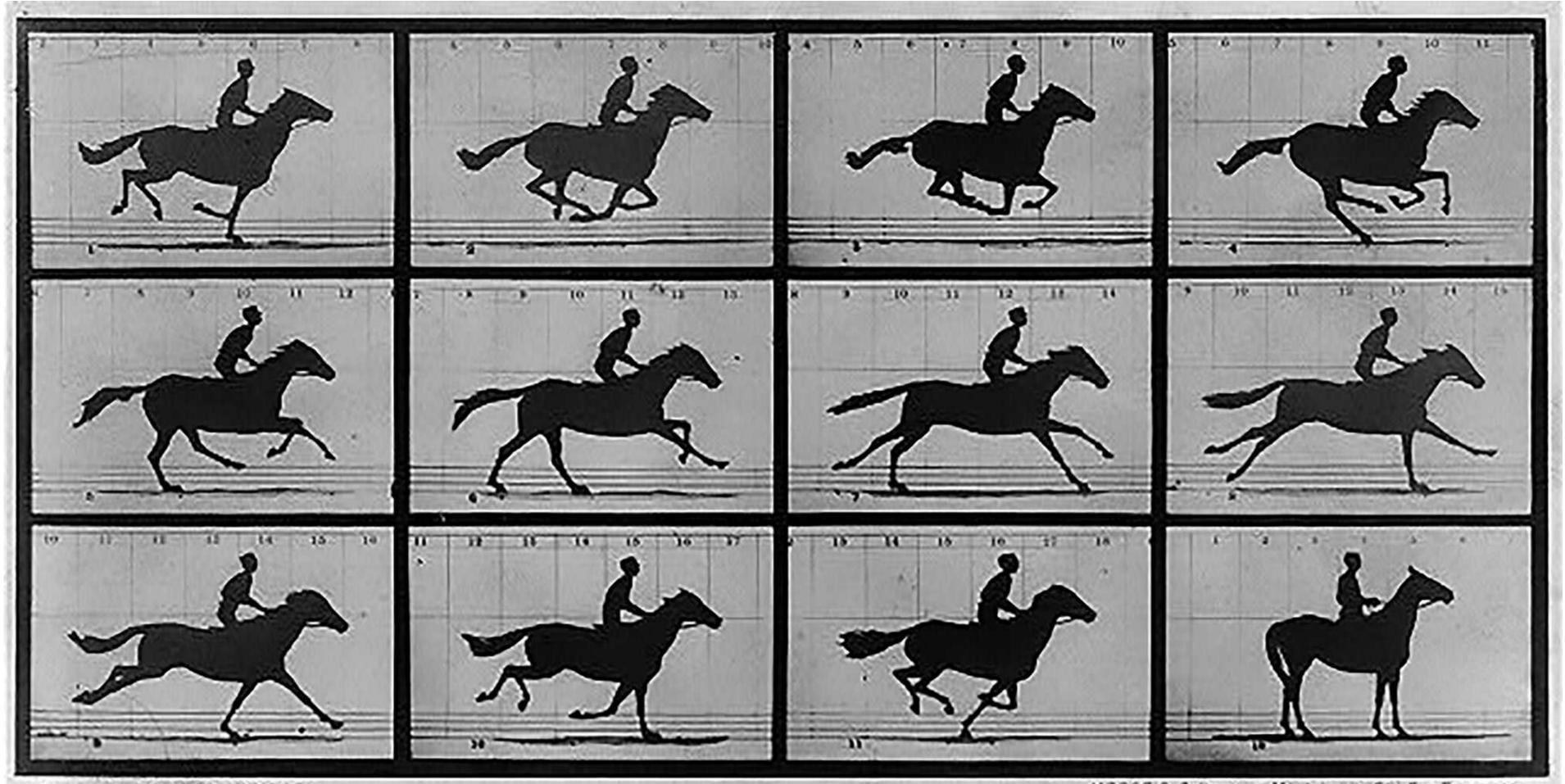
Lecture 10
DD 324:
Data Visualisation

## Interactivity & Motion

# Humans have been telling stories and making things move for ages.



Copyright, 1875, by MUYBRIDGE.

MORSE'S Gallery, 417 Montgomery St., San Francisco.

THE MORSE IN MOTION.

Electronick by MUYBRIDGE,

AUTOMATIC ELECTRO-PHOTOGRAPH.

"SALLIE GARDNER," owned by LELAND STANFORD; running at a 1.40 gait over the Palo Alto track, 19th June, 1878.

The negatives of these photographs were made at intervals of twenty-seven notices of chemics, and absorbe twenty-lifth part of a second of time; they illustrate consecutive profitions assumed in each twenty-seven inches of progress during a single stride of the mans. The ventical lines were twenty-seven suches apart; the inchestal force represent elevations of tour archive state. The exposite of each negative are less than the two-thousandth part of a second.

Eadweard Muybridge 1878



# Interactivity and motion are baseline expectations for content in 2025.

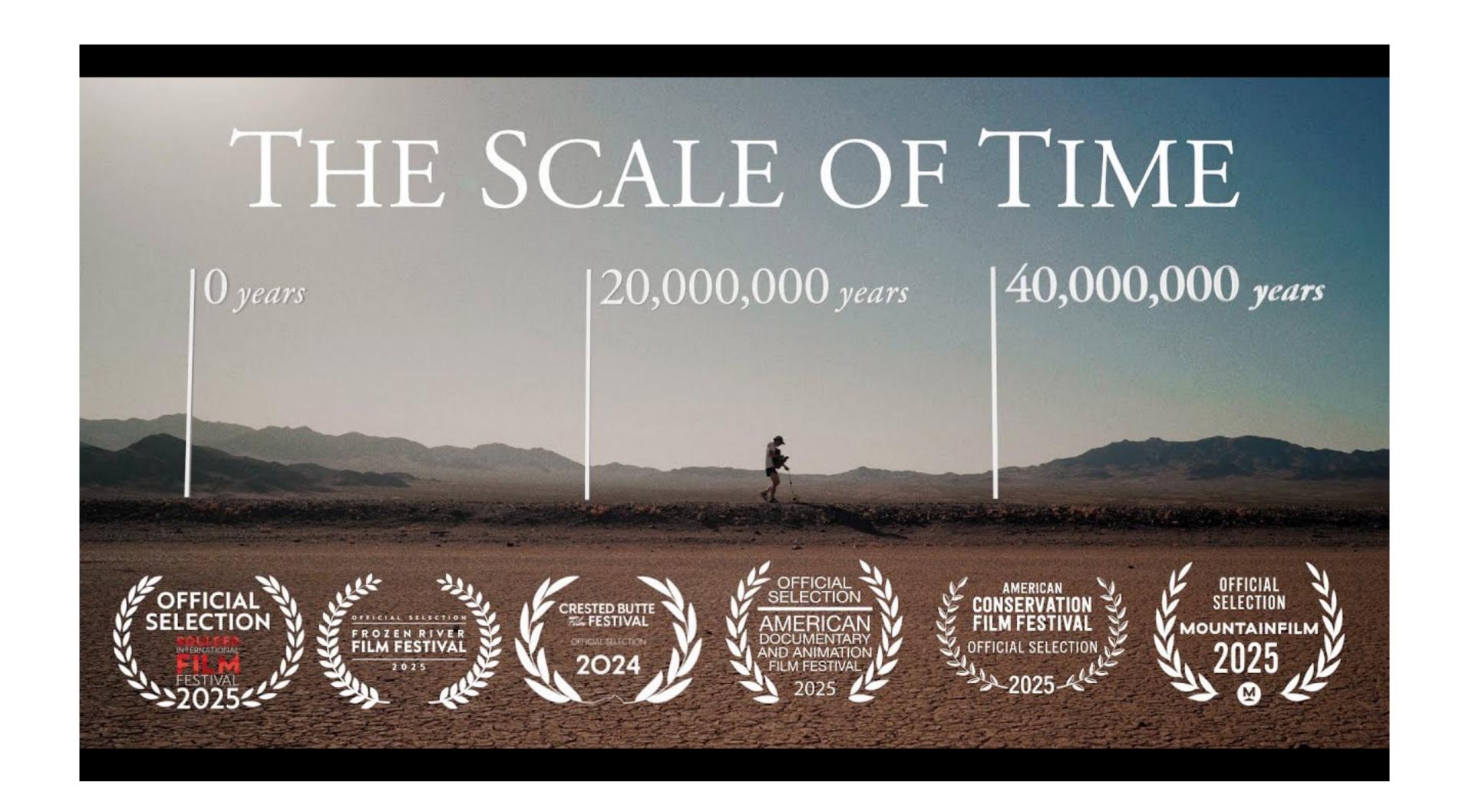


Animation can draw attention.

2

#### Motion can help transition:

- between parts of a visualisation,
- between different ideas,
- between different aspects of the same data.



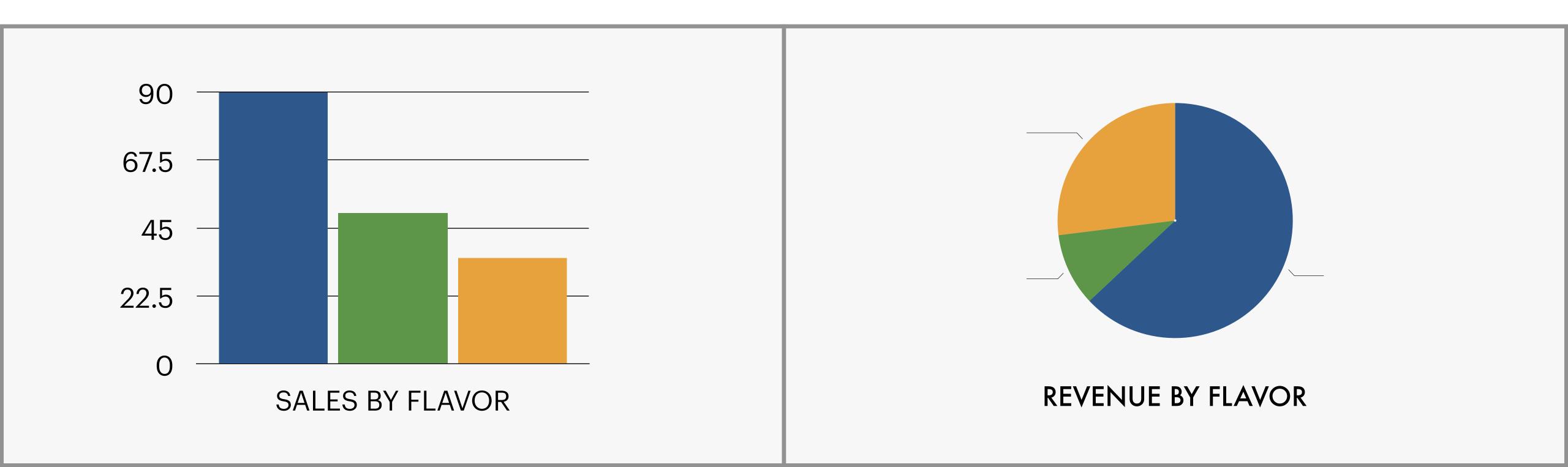
To Scale: TIME (Start at 3:00)

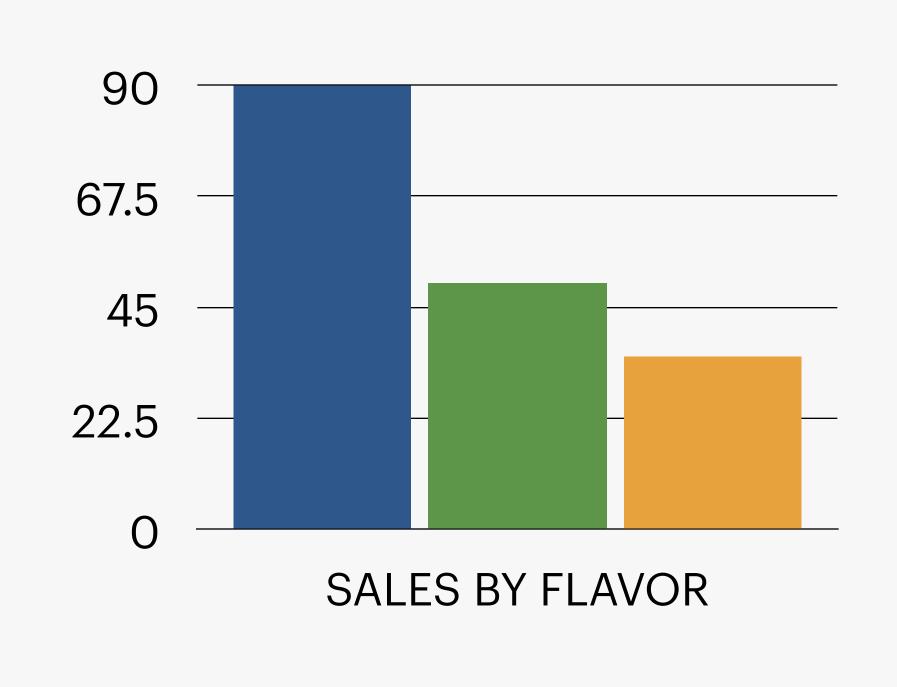


Why all world maps are wrong (Start at 4:35)

### Warmup exercise

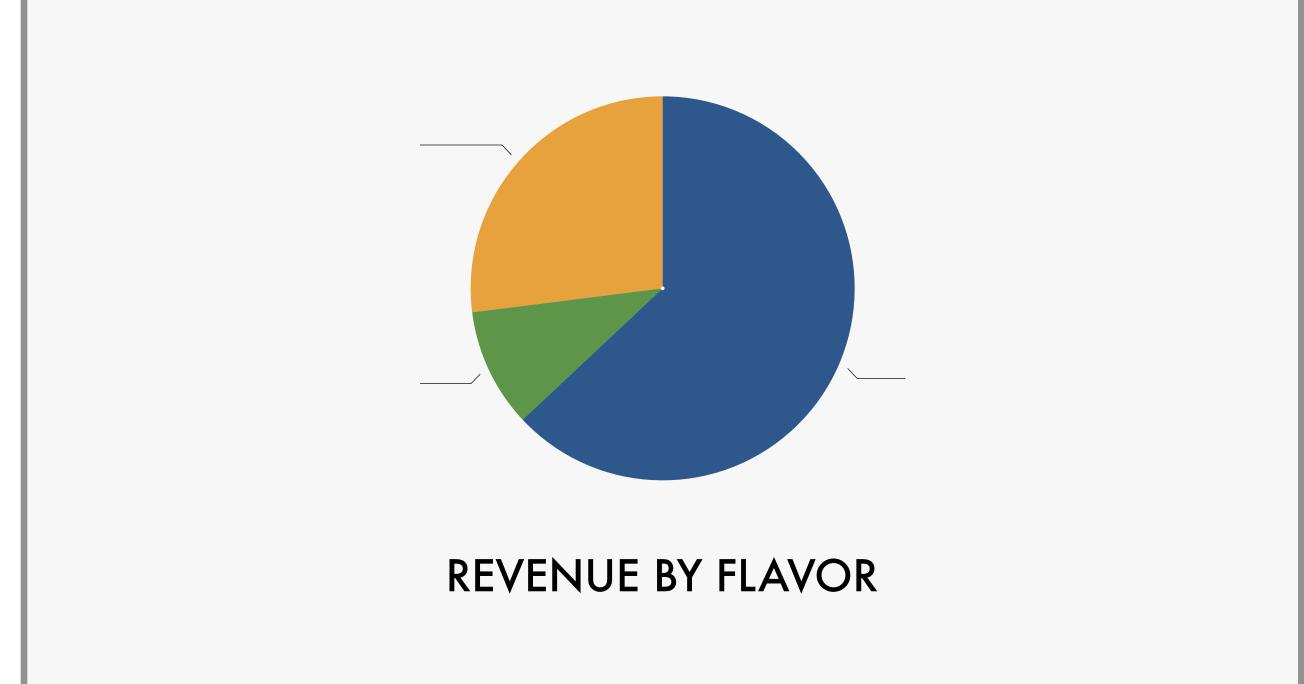
How would you transition from one chart to the other? Draw the 2 intermediate frames on paper.

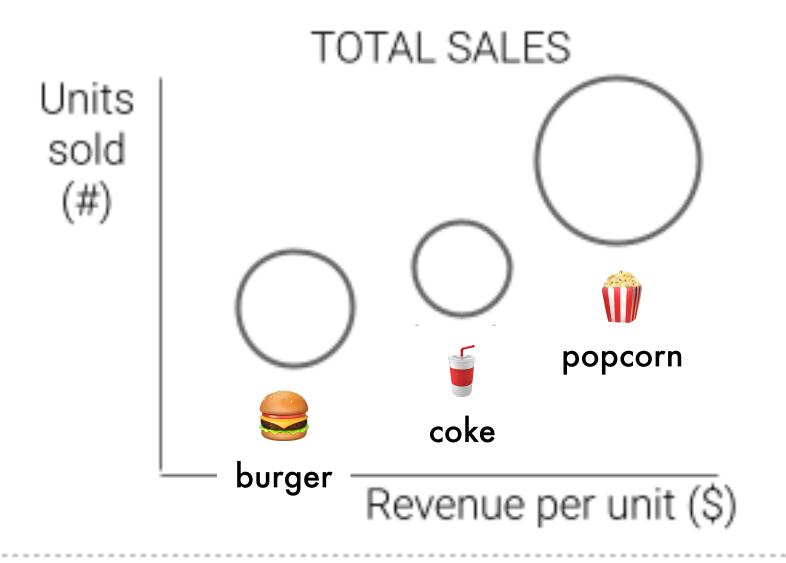






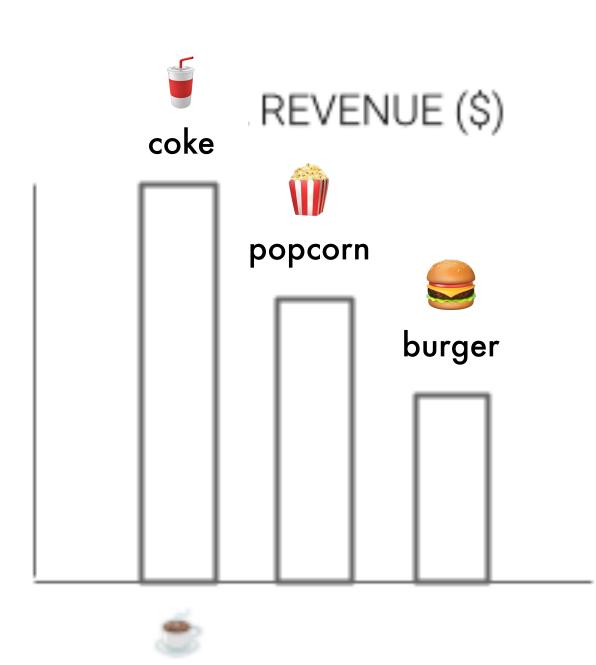




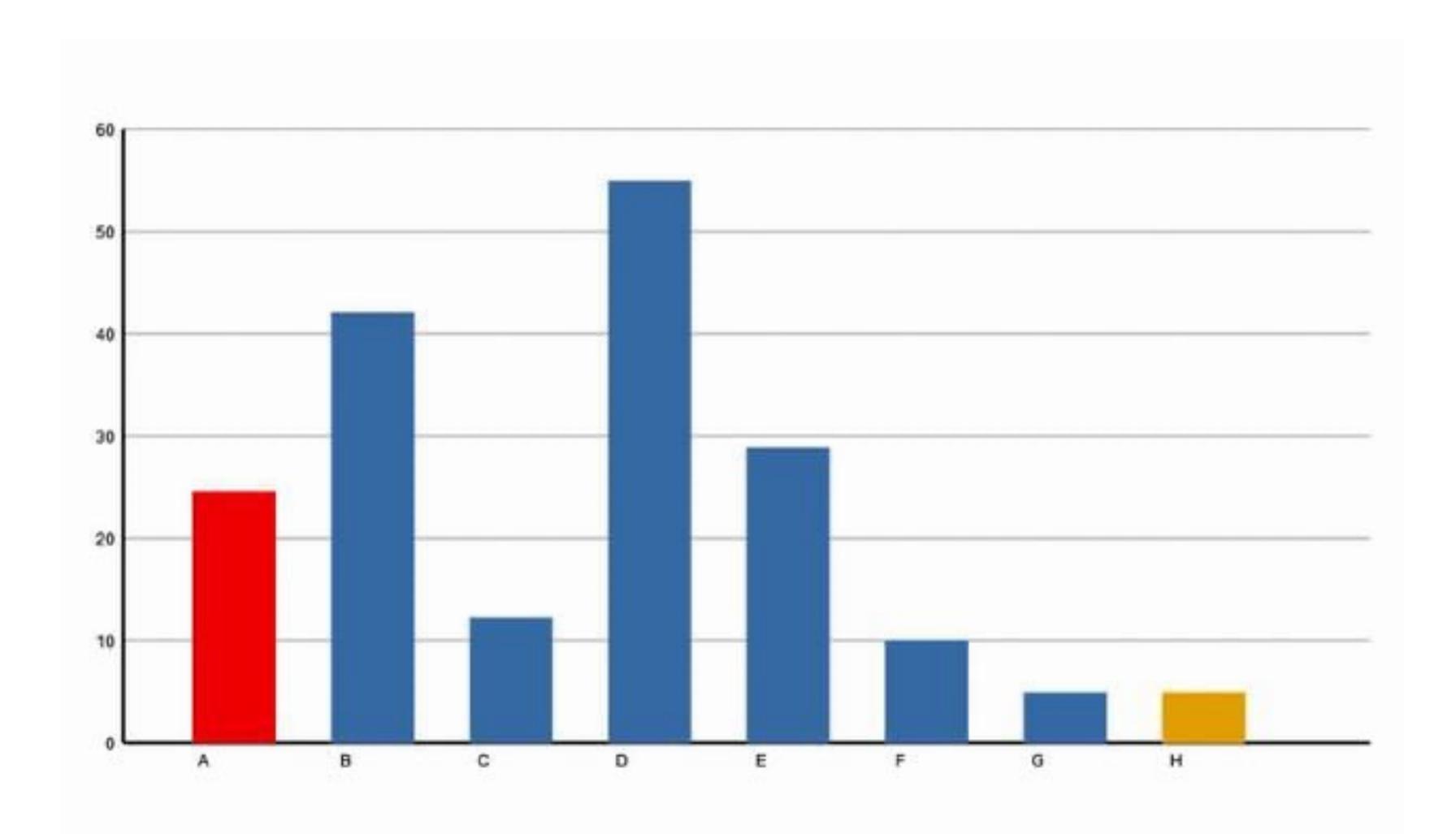


Radius = inventory (#) 2





3



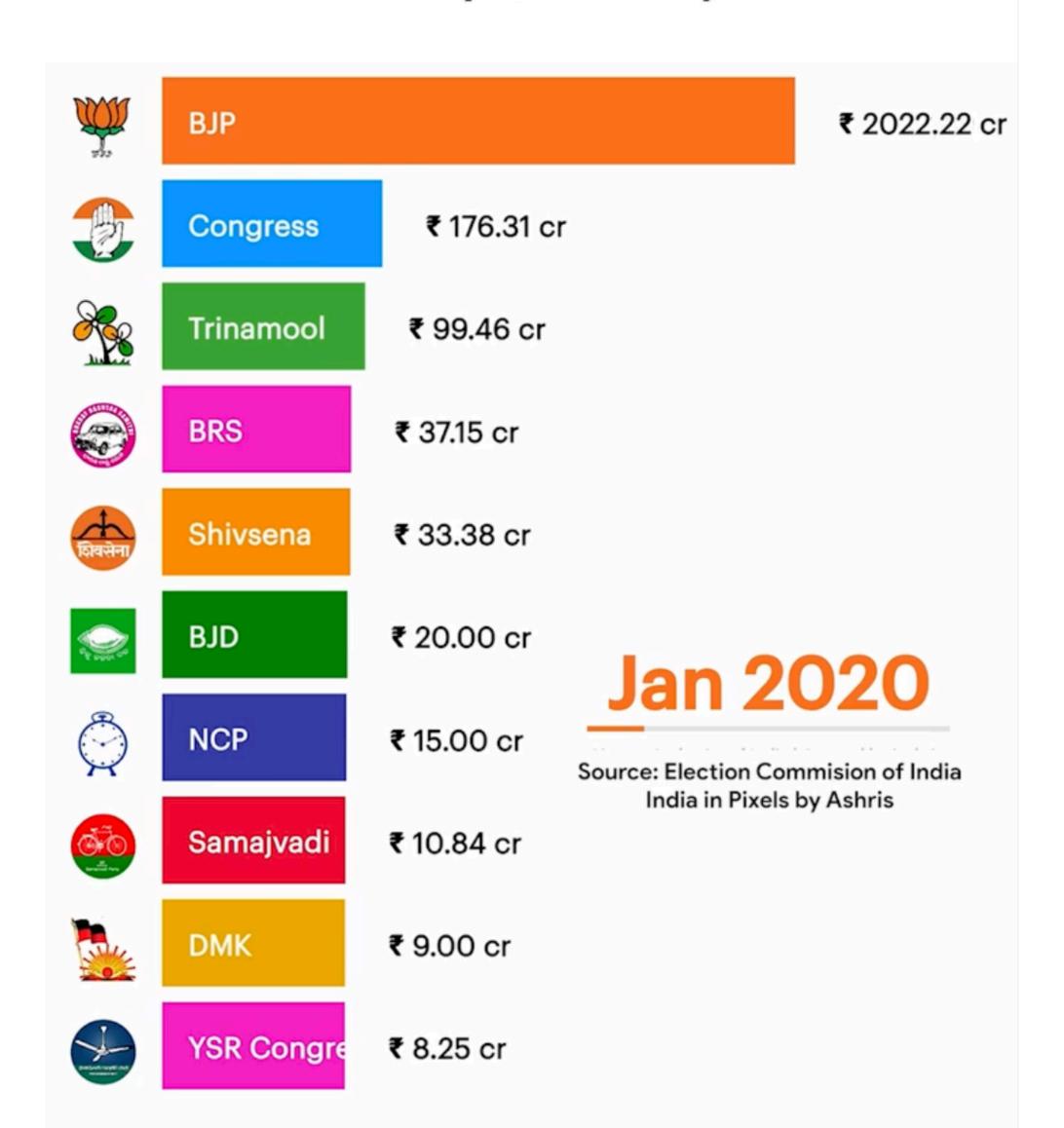
VIDEO: Animated Transitions in Statistical Data Graphics

3

Time can be used as a channel and can give you an additional dimension to play with.

#### Electoral Bond Donations By Parties 2019-2024

visualized by @india.in.pixels



**SOURCE** 

# Much of what can be achieved with motion can also be done with interactive media.

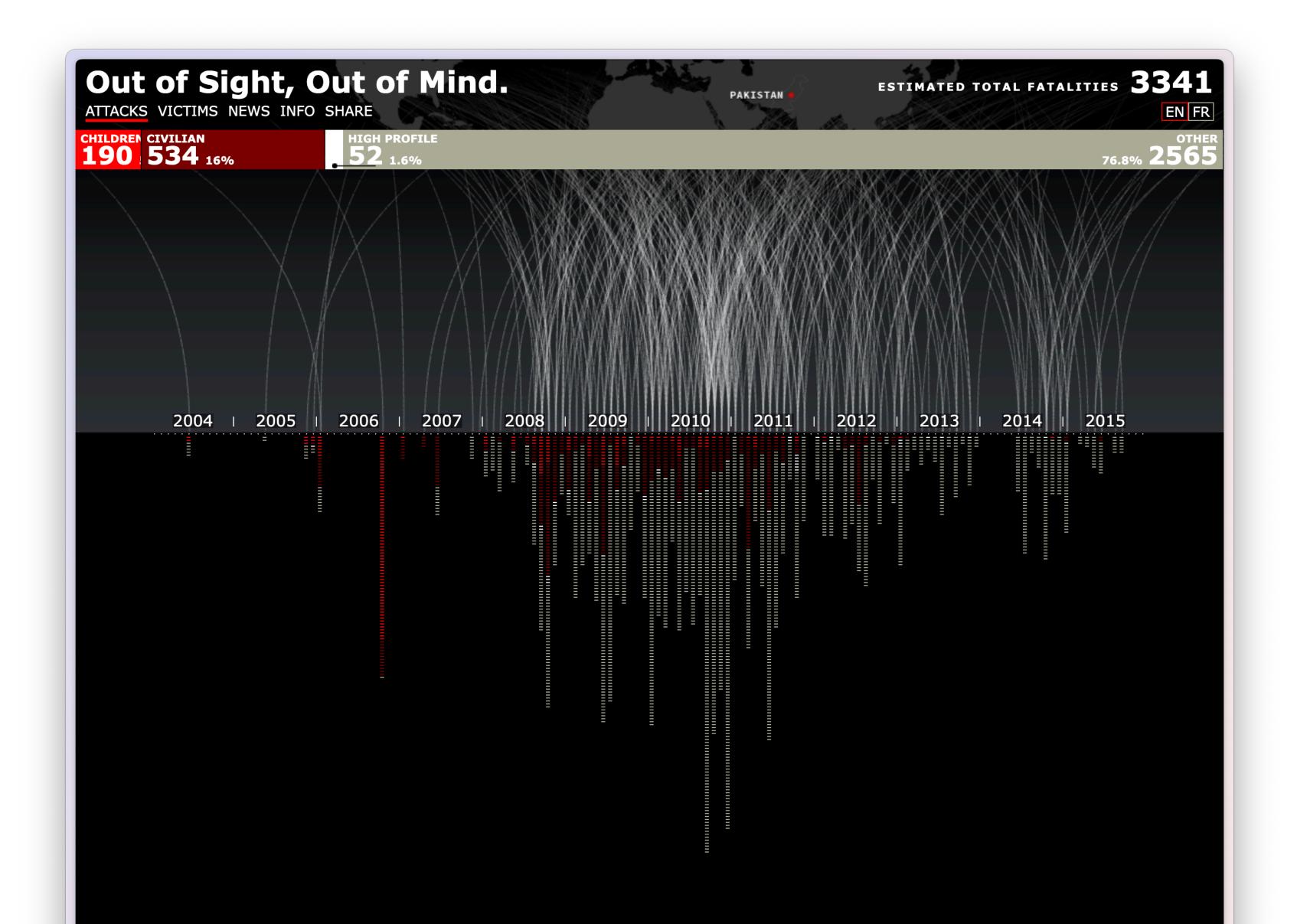
#### INTERACTIVE

Changes when you interact with it.

#### **VIDEO**

Changes on a fixed timeline.

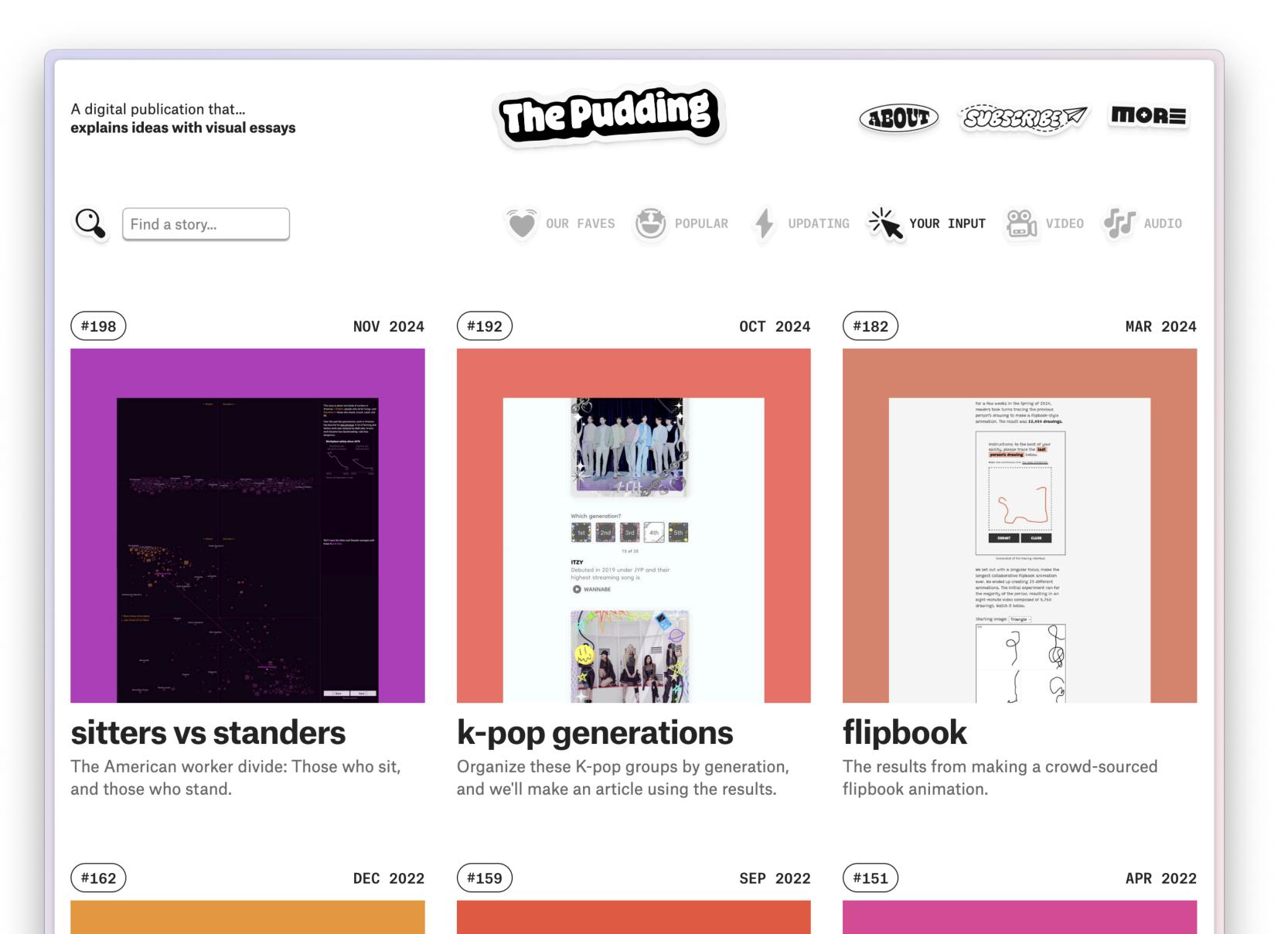
#### drones.pitchinteractive.com



Similiar to a video, just created with code.

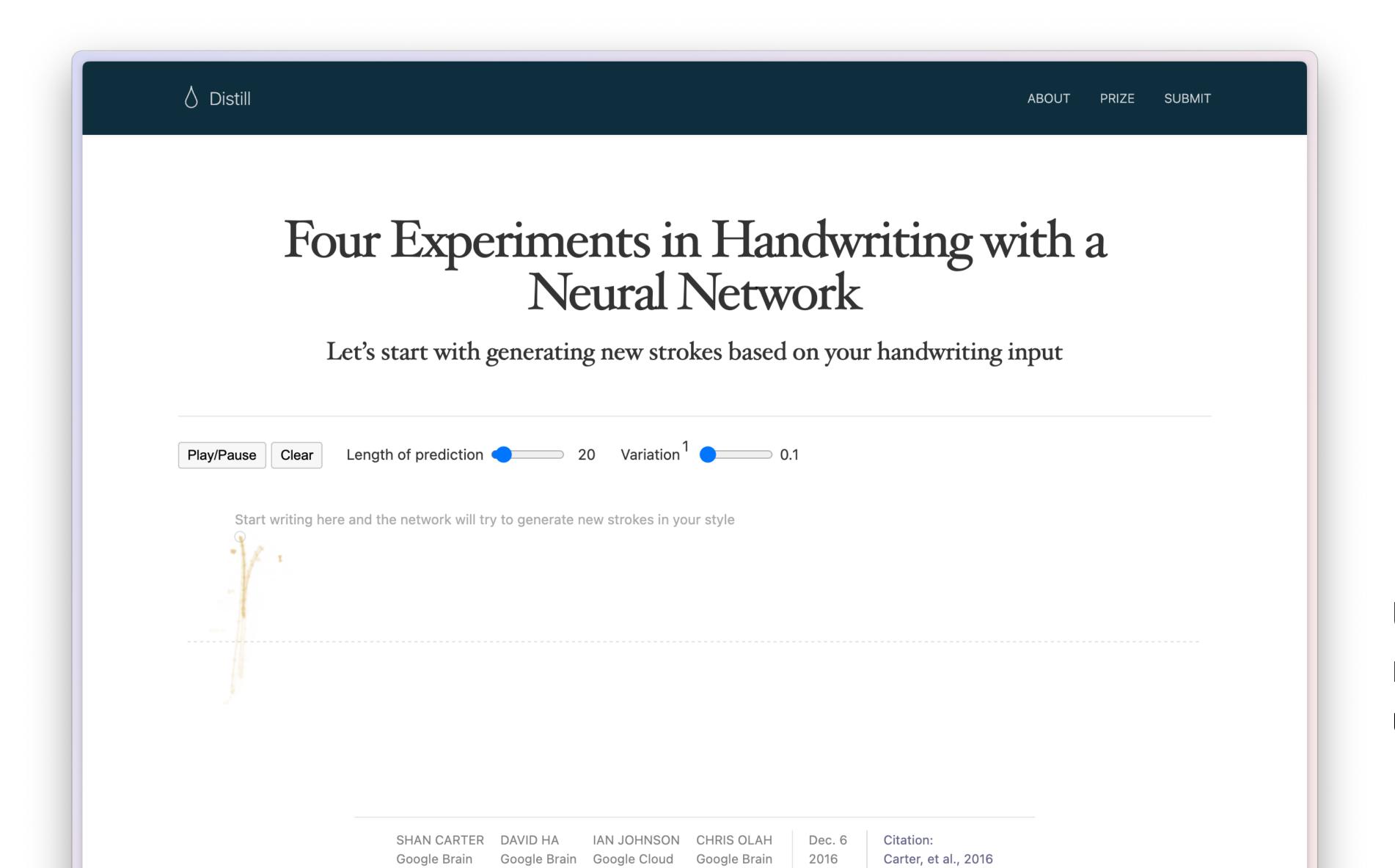
Hover interactivity.

#### pudding.cool



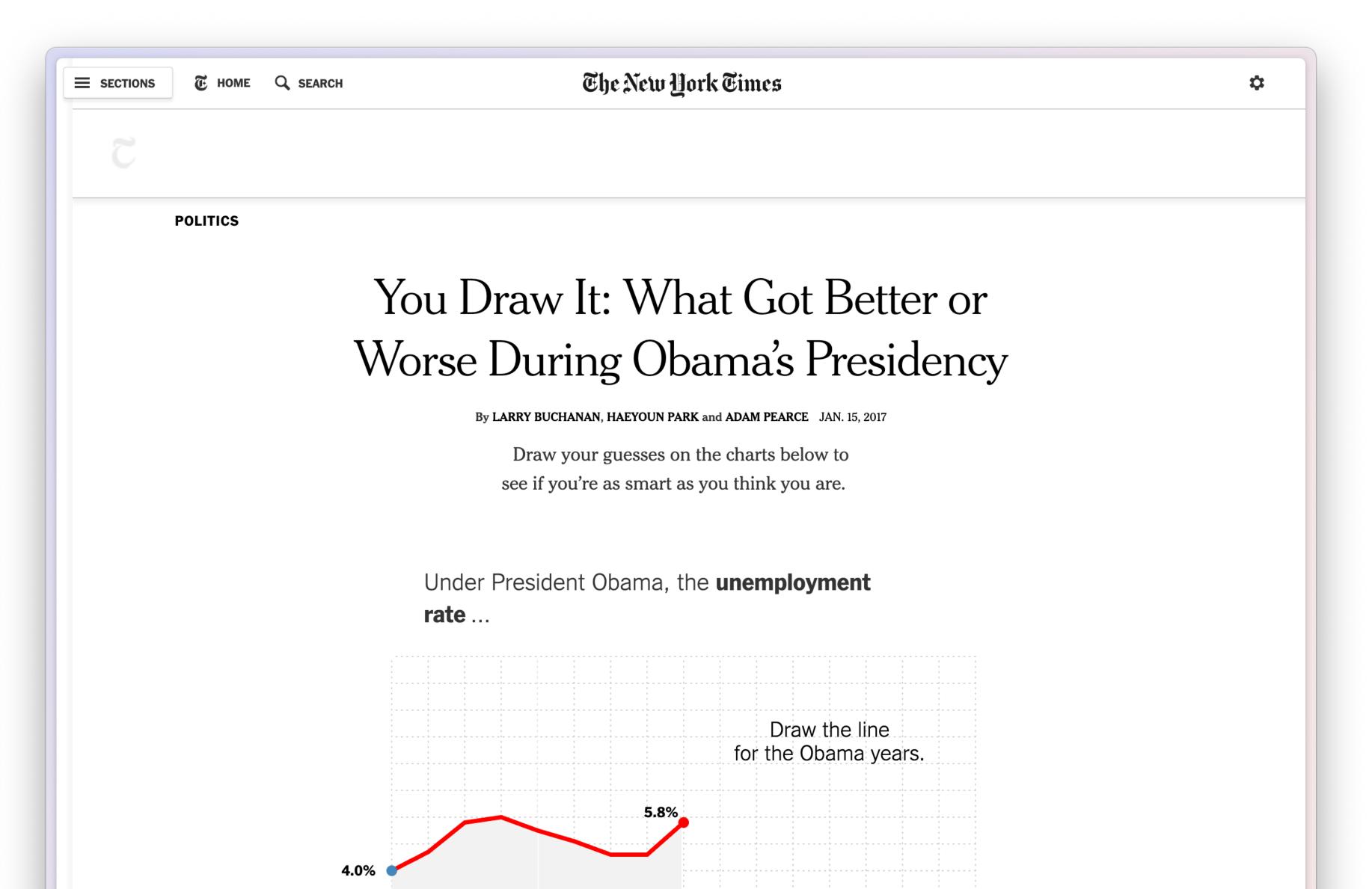
User input is recorded and added to the dataset live!

#### Four Experiments in Handwriting with a Neural Network



User input is recorded and used to explain.

#### You Draw It: What Got Better or Worse During Obama's Presidency



User input shows difference between user's mental model and reality.

# "The universe is made of stories, not atoms."

-Muriel Rukeyser

#### significantobjects.com



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**NEWS** 



Significant Objects, a literary and anthropological experiment devised by Rob Walker and Joshua Glenn, demonstrated that the effect of narrative on any given object's subjective value can be measured objectively.

The project auctioned off thrift-store objects via eBay; for item descriptions, short stories purpose-written by over 200 contributing writers, including Meg Cabot, William Gibson, Ben Greenman, Sheila Heti, Neil LaBute, Jonathan Lethem, Tom McCarthy, Lydia Millet, Jenny Offill, Bruce Sterling, Scarlett Thomas, and Colson Whitehead, were substituted. The objects, purchased for \$1.25 apiece on average, sold for nearly \$8,000.00 in

total. (Proceeds were distributed to the contributors, and to nonprofit creative writing organizations.) All the project's stories are archived on this site.

Glenn and Walker are now pleased to announce that a collection of 100 of the project's finest stories has been published by Fantagraphics in a highly impressive volume, masterfully designed by Jacob Covey. It is available now via Powell's, Amazon, B&N, or wherever finer books are sold.

Follow the latest news and other interesting notes on objects, stories, and value at significobs.tumblr.com. We're also on Twitter, and Facebook, and sometimes we even post in the news section of this very site!

























trinkets from thrift stores and garage sales

trinkets from thrift stores and garage sales \$3,612.51

trinkets from thrift stores and garage sales \$3,612.51

priceless treasures with stories attached to them

### What is the value of a story?

\$128.74

trinkets from thrift stores and garage sales \$3,612.51

priceless treasures with stories attached to them

### What is the value of a story?

\$128.74

trinkets from thrift stores and garage sales



\$3,612.51

priceless treasures
with stories attached
to them

## Literacy

## Literacy

Graphicacy?

### Graphicacy

the ability to understand and present information in the form of sketches, photographs, diagrams, maps, plans, charts, graphs and other non-textual formats.

# GUEST 162 LECTURE

### From numbers to narratives

#### **NEEL LAKHWANI**

Designer, Tibba Design Studio

(also my brother)

Make the viewer think about data insights, not the method of representation or the technology