

# Data Visualization

**Tips & Observable**

M126 | Maria Roussou

# Animation

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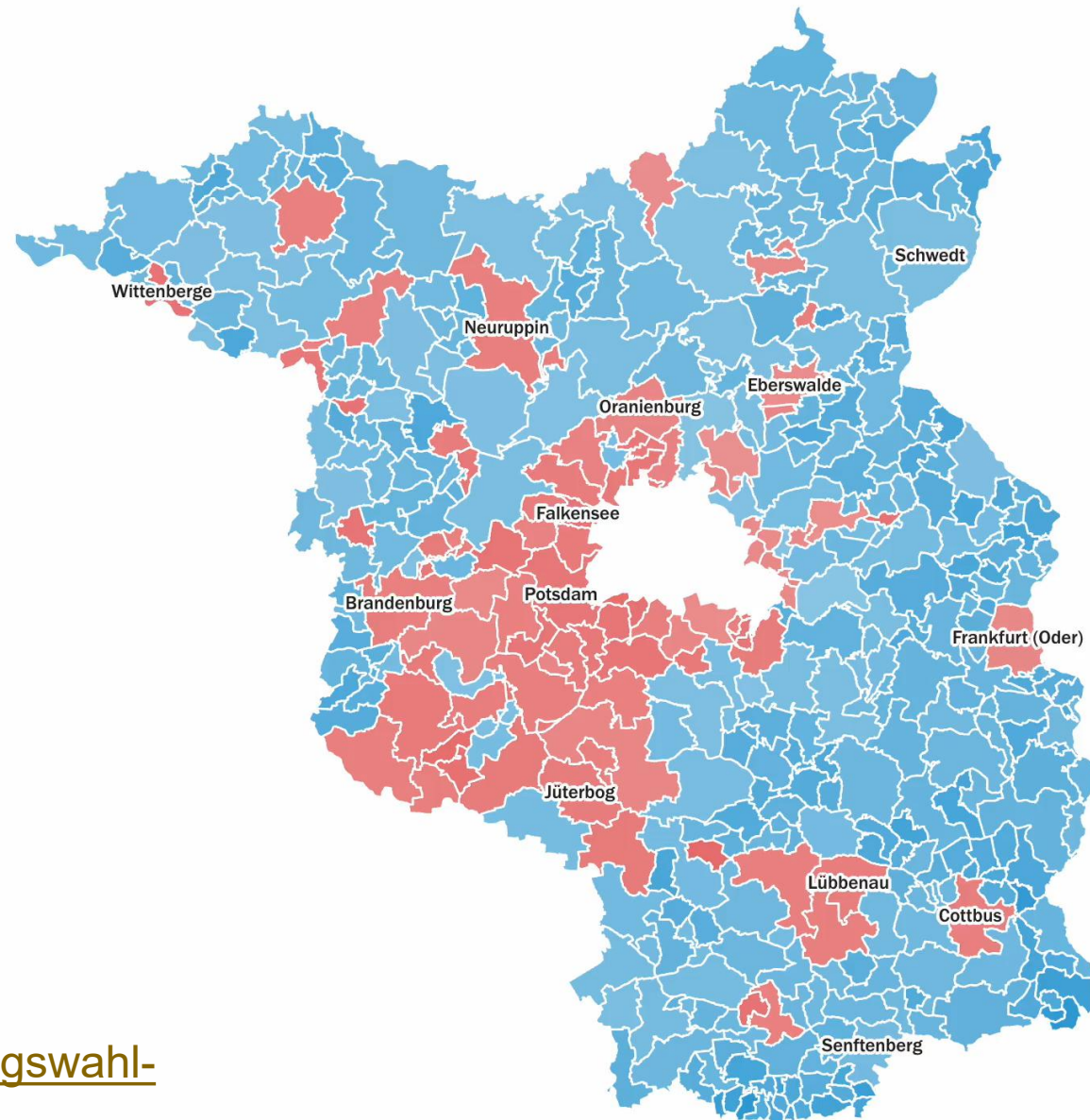
- Animation can enhance visualization by:
  - helping viewers make connections
  - showing them different perspectives
  - drawing them in to take a closer look

But it can add unnecessary complexity and distraction and turn into a gimmick.

Examples from <https://observablehq.com/blog/effective-animation>

# Animation: Tweening

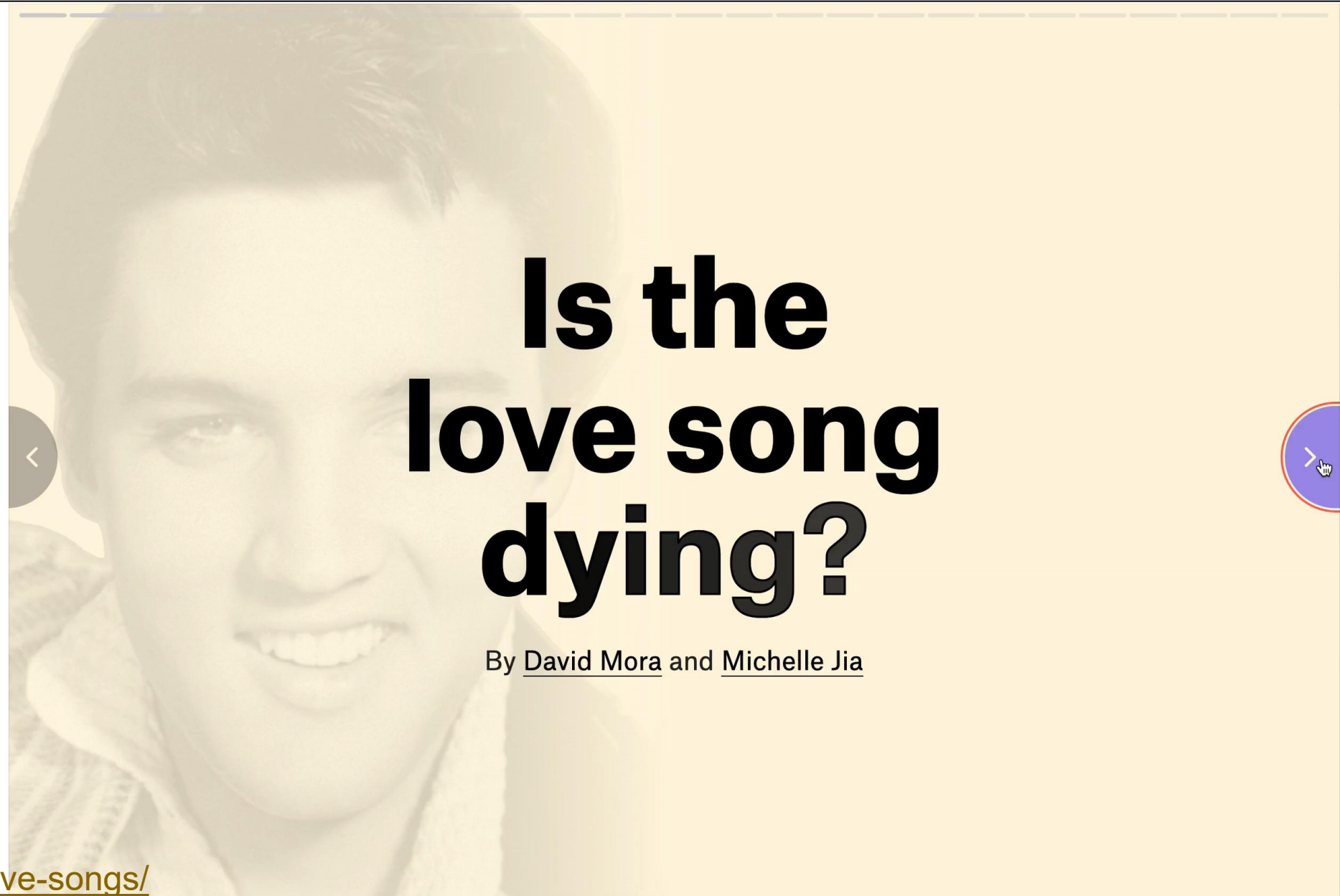
- to morph btw. different views



<https://interaktiv.tagesspiegel.de/lab/landtagswahl-brandenburg-rote-staedte-blaue-land/>

## Animation: Tweening

- to morph btw. different views



## Animation: Tweening

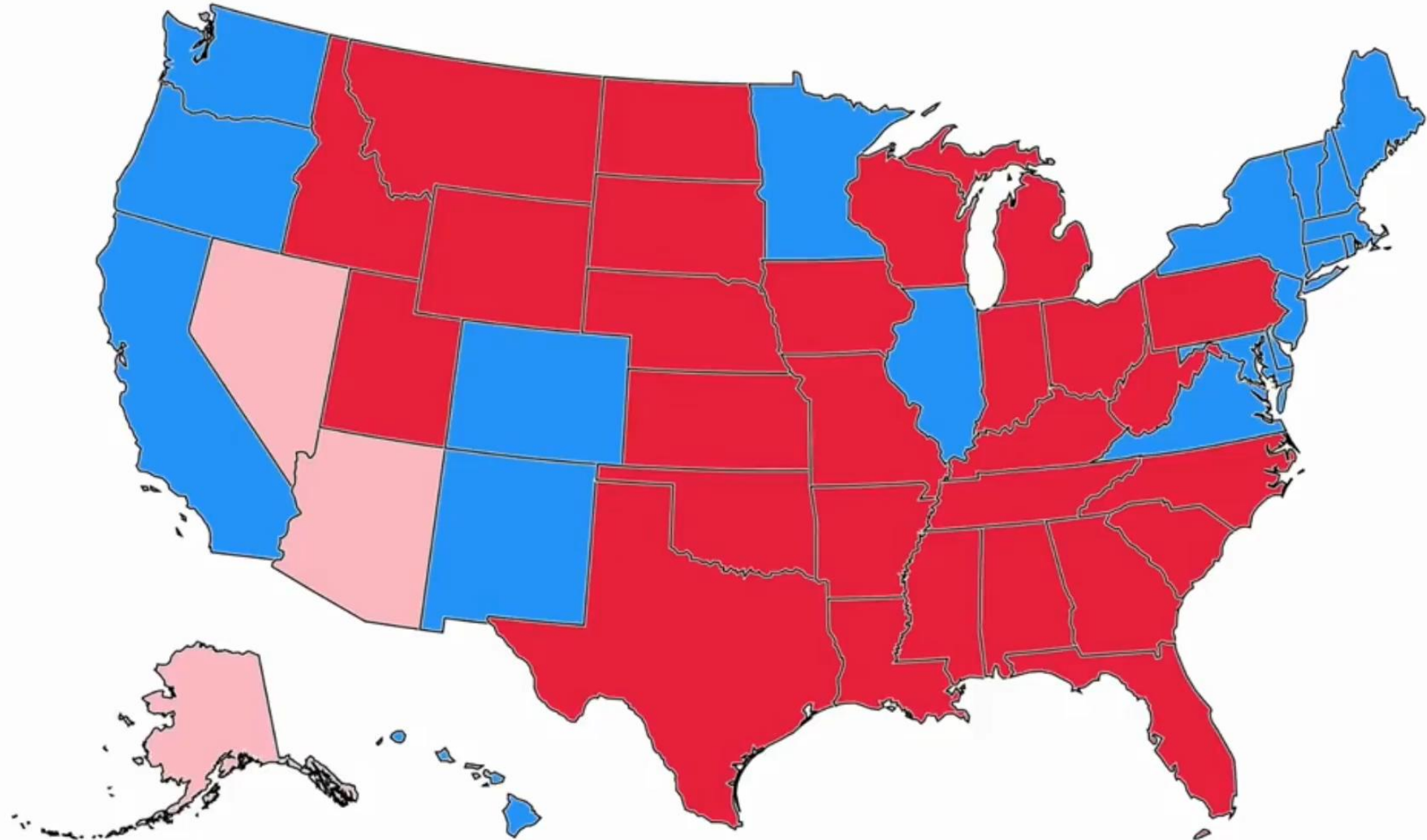
- to morph btw. different views

Transition btw. traditional map and cartogram



## 2024 US PRESIDENTIAL ELECTION

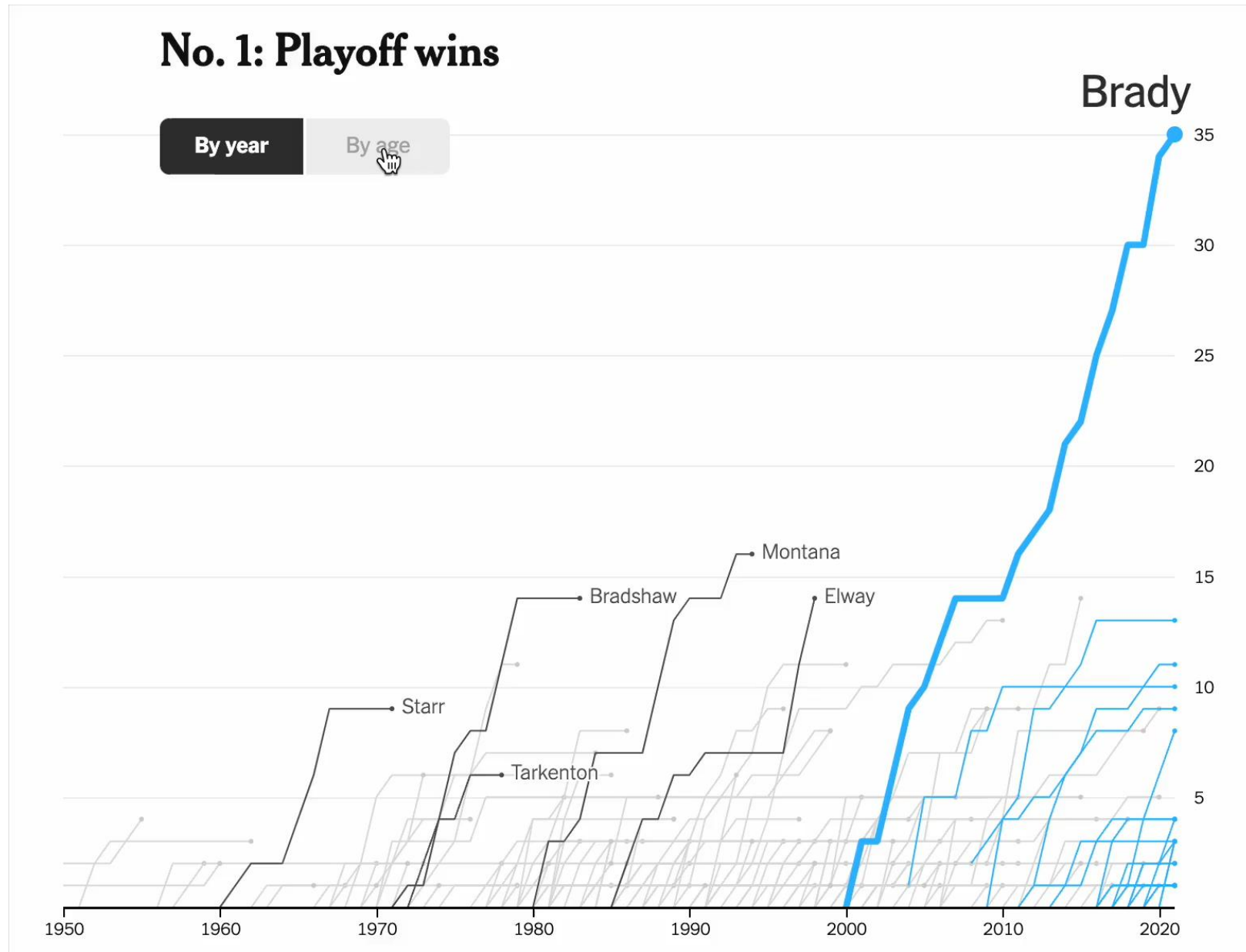
MAPPING ELECTORAL INFLUENCE



# Animation: Comparisons

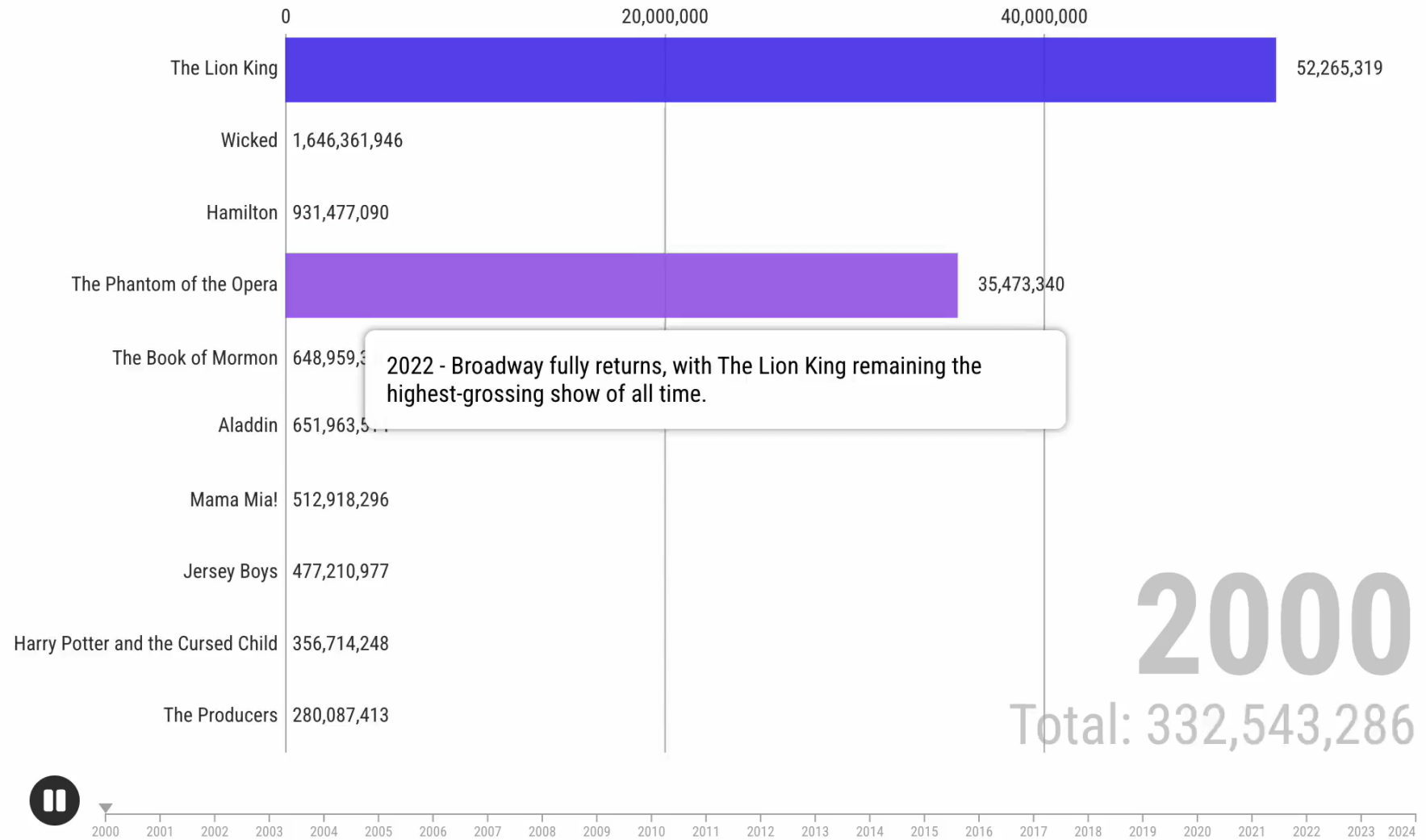
the ordering updates over time or across different metrics

<https://www.nytimes.com/interactive/2022/02/02/upshot/tom-brady-career-stats.html>



# Animation: Comparisons

- Racing bar chart



<https://nightingaledvs.com/racing-bar-charts/>

Type ■ Disney ■ Classic ■ Movie Adaptation ■ Book Adaptation ■ Historical ■ Revival ■ Jukebox ■ Dance ■ Comedy ■ Contemporary ■ Rock ■ Rock Opera ■ Concert

# Animation: Comparisons

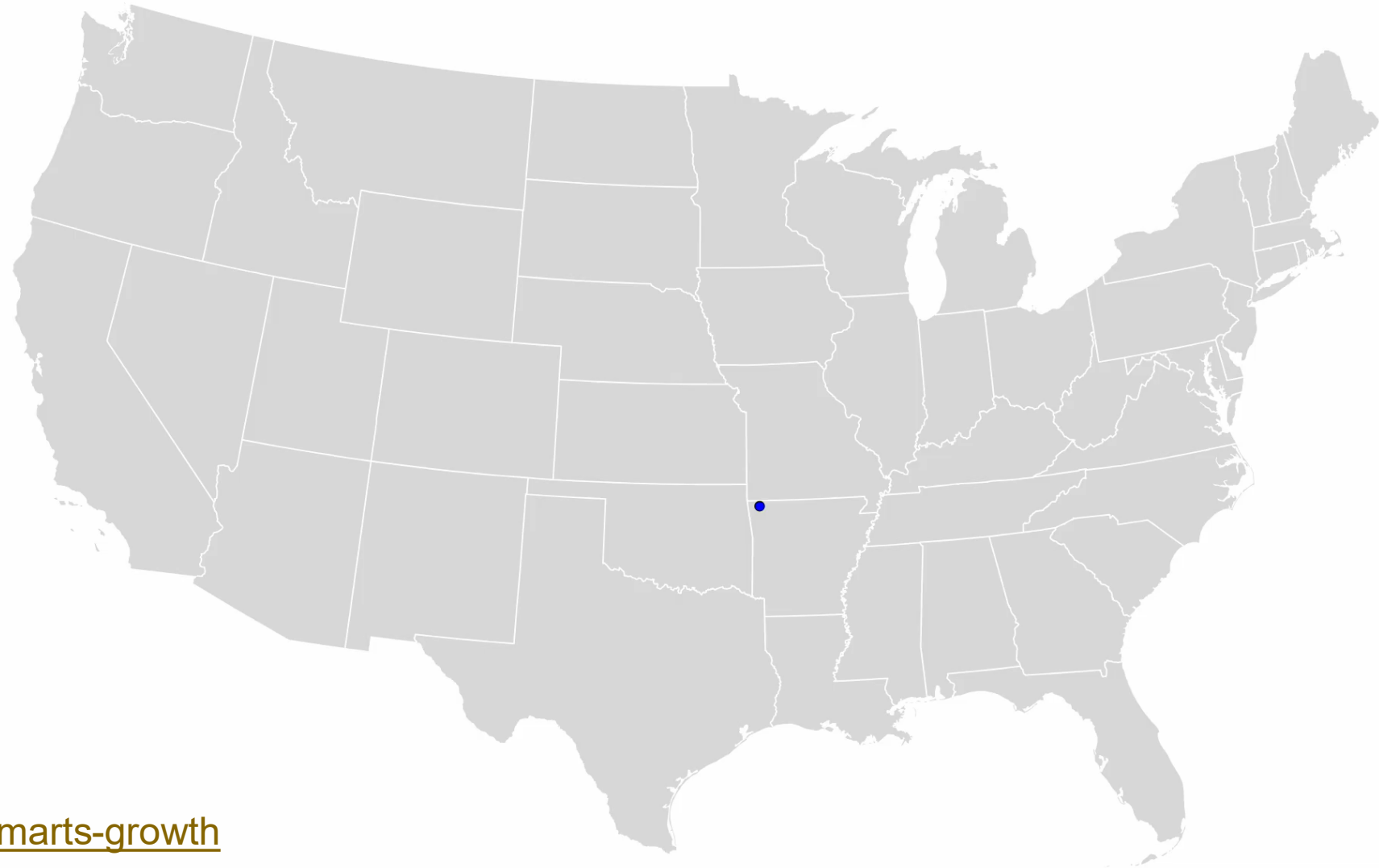
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- Racing bar charts in Observable:  
<https://observablehq.com/@d3/bar-chart-race>

[https://nightingaledvs.com/  
racing-bar-charts/](https://nightingaledvs.com/racing-bar-charts/)

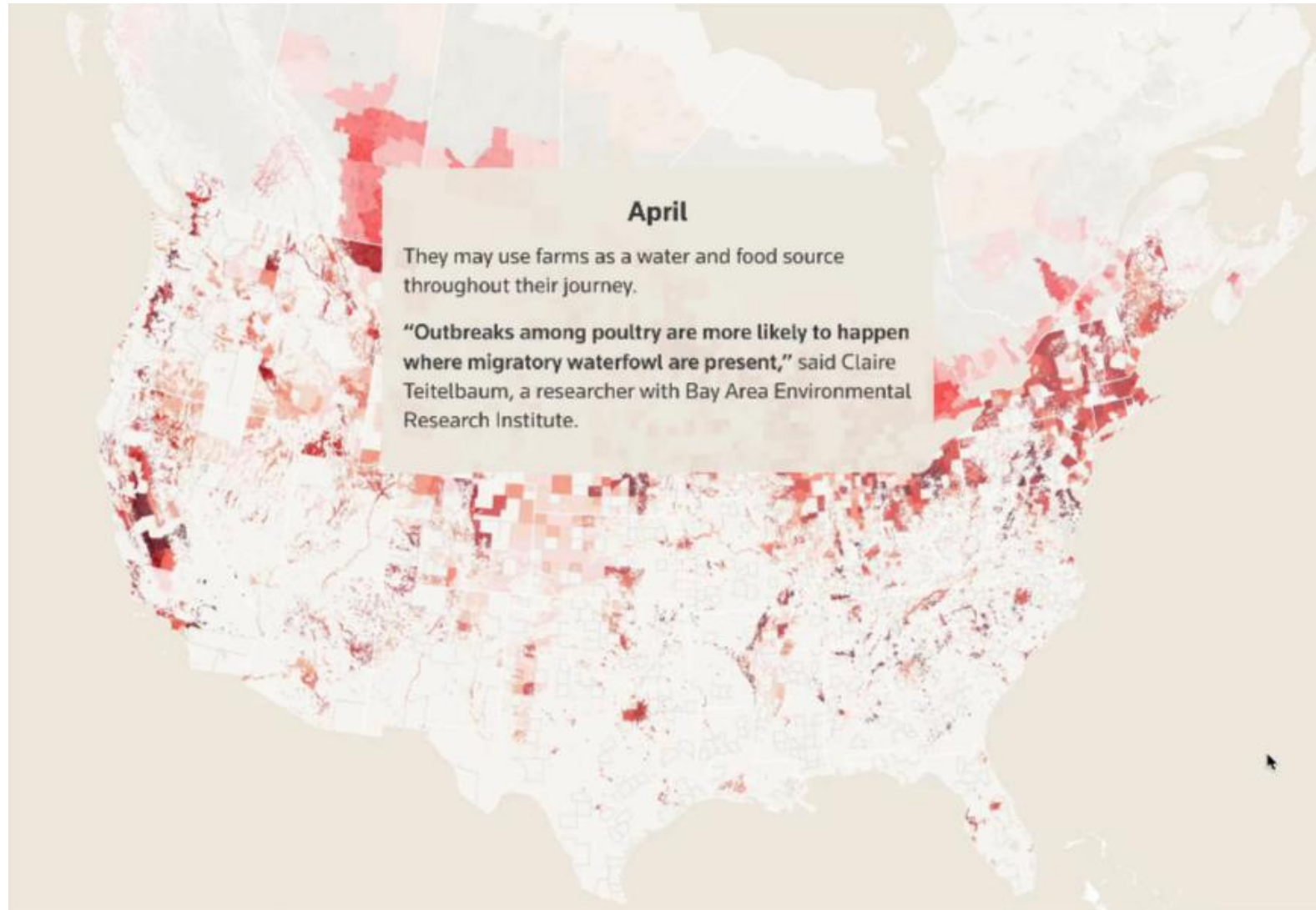
# Animation: Spatial shifts

Pause  1963 Oct 27



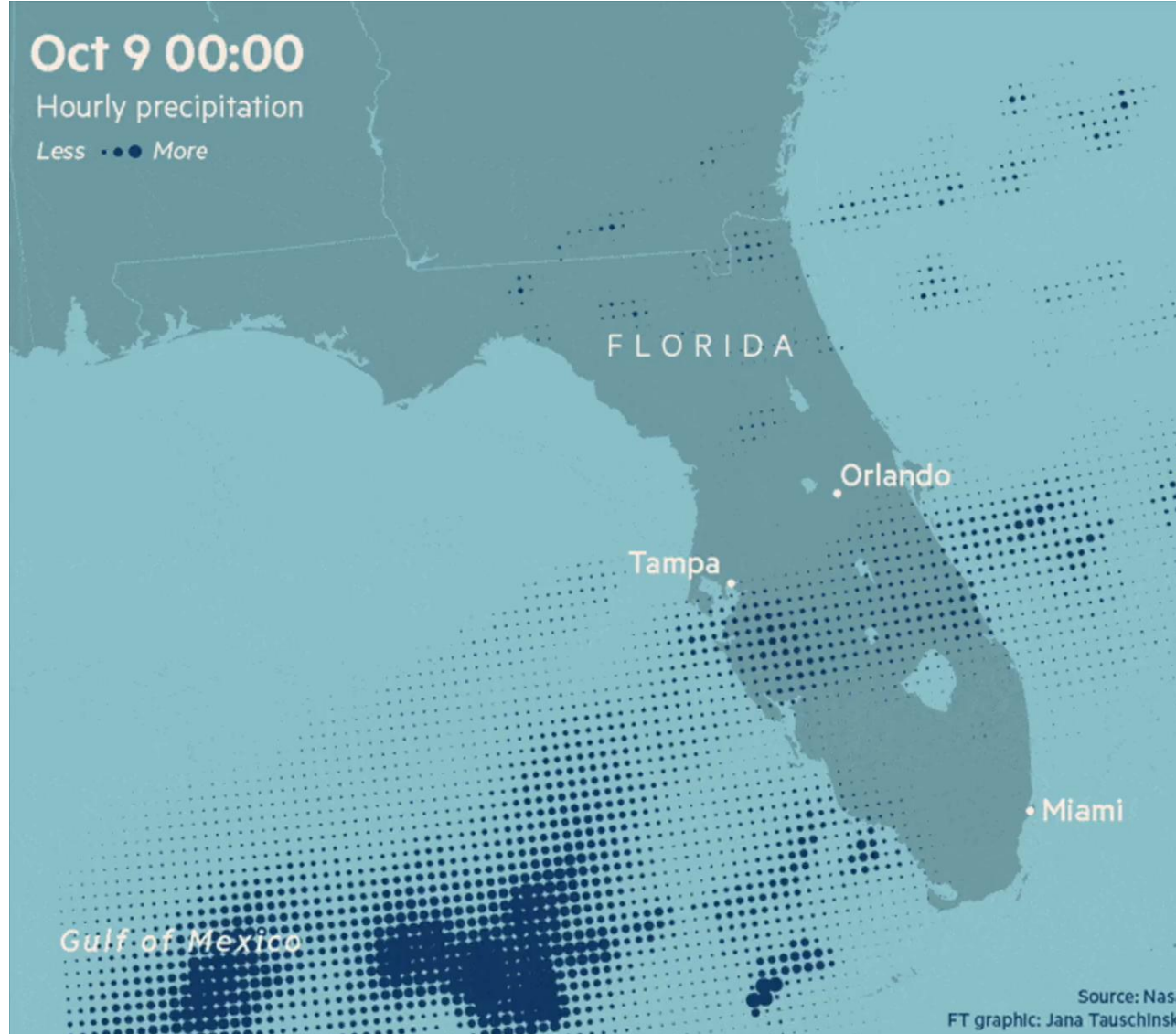
<https://observablehq.com/@d3/walmarts-growth>

## Animation: Spatial shifts



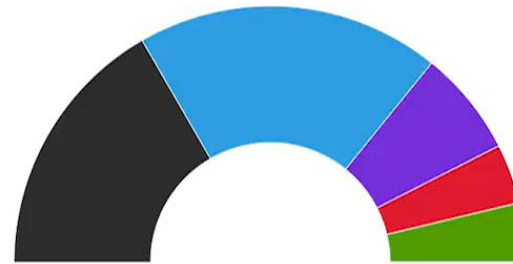
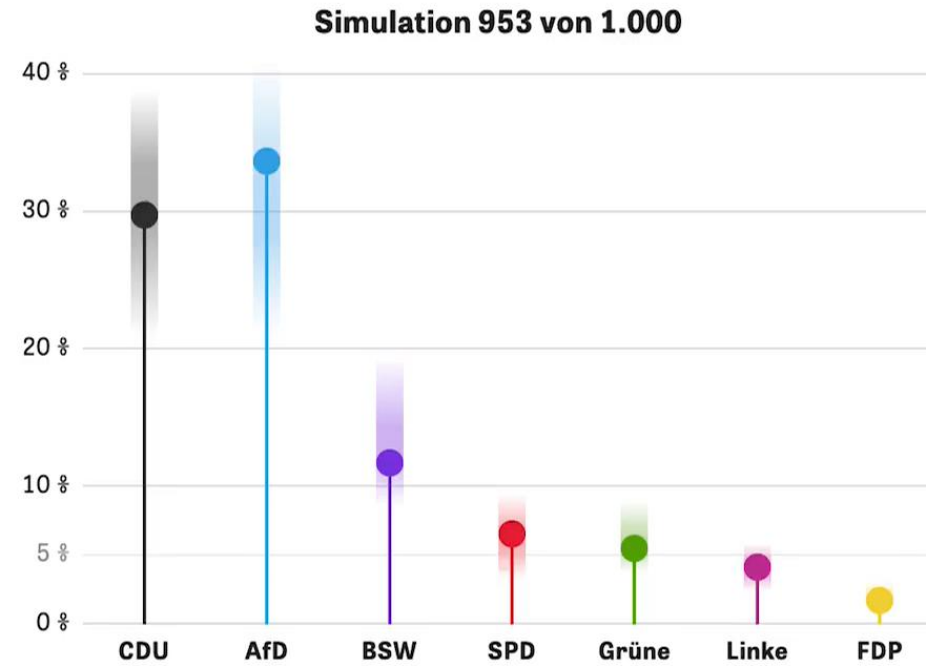
<https://www.reuters.com/graphics/HEALTH-BIRDFLU/MIGRATION/movaqmb1rva/>

# Animation: Spatial shifts



<https://www.ft.com/content/df240556-a957-4103-9e65-c51d8abf49ca>

# Animation: Motion as a visual cue



<https://youtu.be/ePpSYA9deKA>

# Animation: Motion as a visual cue



<https://www.nytimes.com/interactive/2018/03/19/upshot/race-class-white-and-black-men.html>

# Animation

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- <https://observablehq.com/@d3/gallery>
- <https://observablehq.com/@d3/world-tour>

- **M126 Data Visualization 2023: Intro to Observable**

- [https://youtu.be/Or9BtCNXFdU?si=pLh2frXPnfeO\\_GDD&t=3108](https://youtu.be/Or9BtCNXFdU?si=pLh2frXPnfeO_GDD&t=3108)

- <https://observablehq.com/guide/athletes>

Thank you!

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<http://eclass.uoa.gr/courses/DI411/>