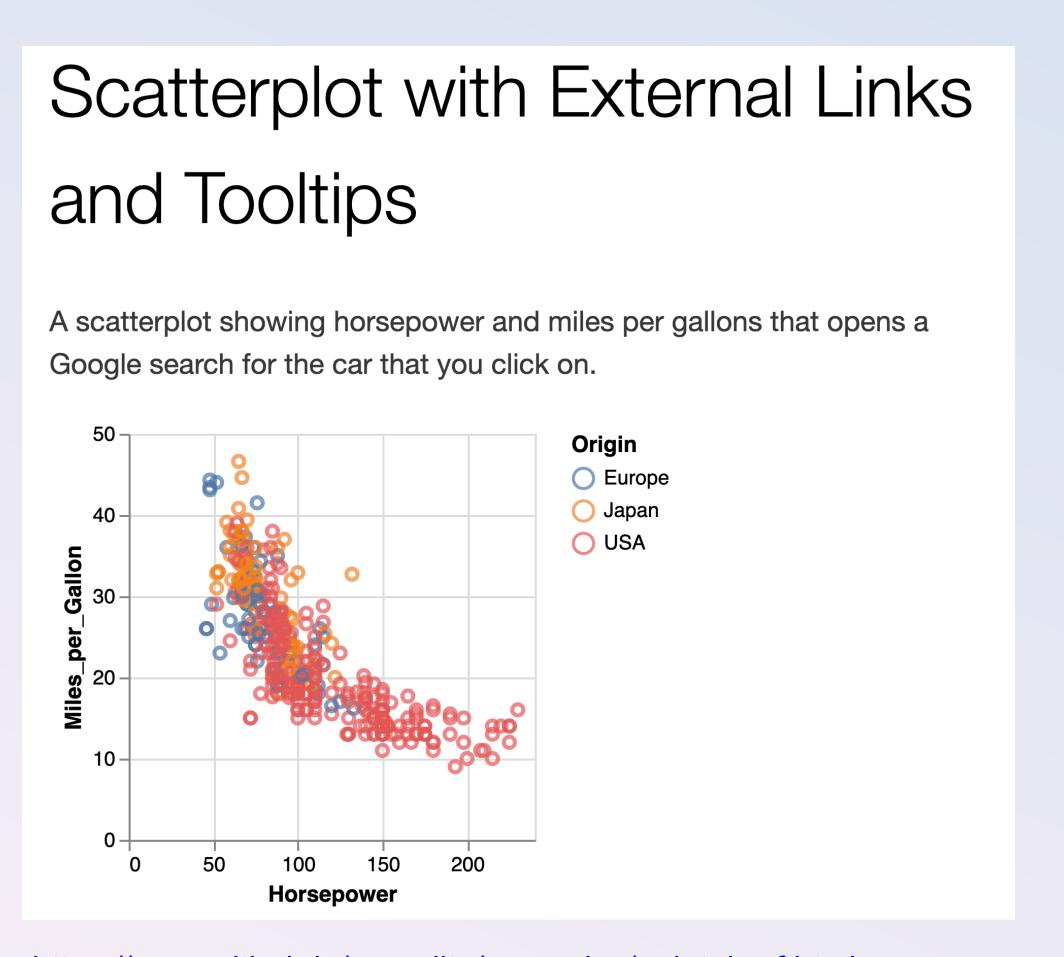
## Chapter 2, Episode 3: Operable barriers

#### Operable

Can someone operate this in multiple ways? Is each way easy?

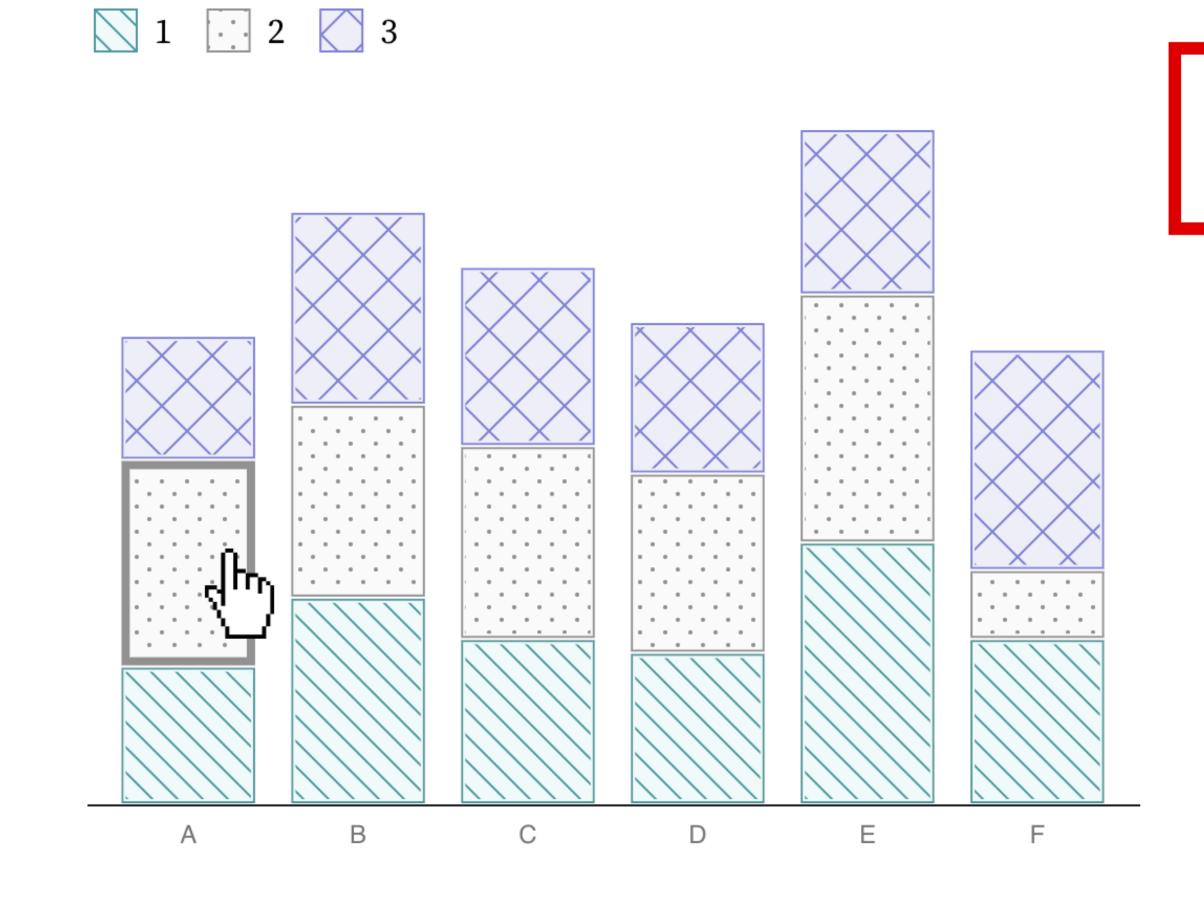
#### Why "keyboard-only?"

Some things work for screen readers but not for keyboard-only users!



https://vega.github.io/vega-lite/examples/point\_href.html

#### Ensure keyboard access (if interactive)



**Status: Category 2** of **Building A** has been selected.

#### Products In Building A that belong to Category 2\*

**Product Name Count in Stock** 

Product A 147

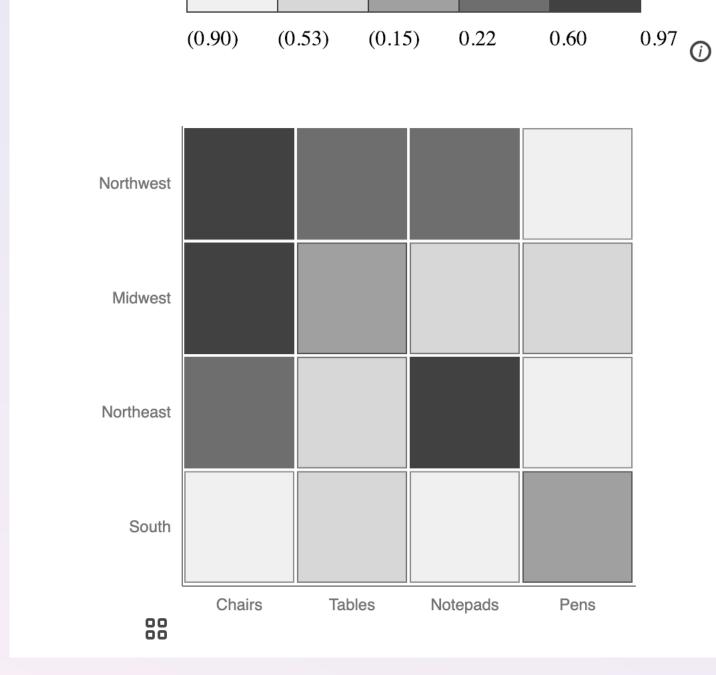
Product C 88

Product M 69

\*This table has been populated by the selection in the preceding chart.

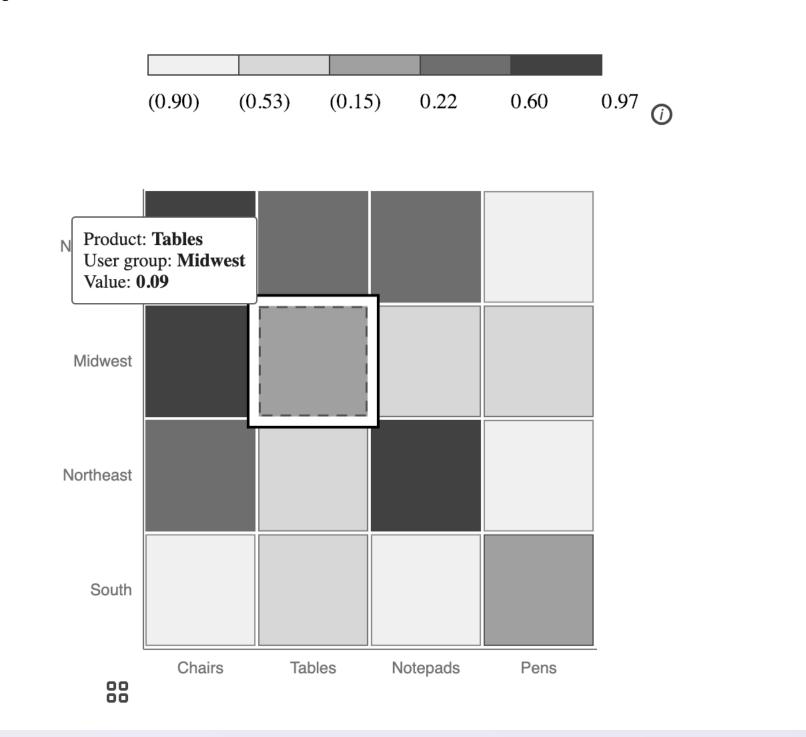
#### Provide feedback (visually and non-visually)

# Comparing how user groups correlate to approval rates of product types A high correlation value (close to 1) indicates that these users have a high approval rate of that product. A low correlation value (close to -1) indicates a negative approval rate of those products.

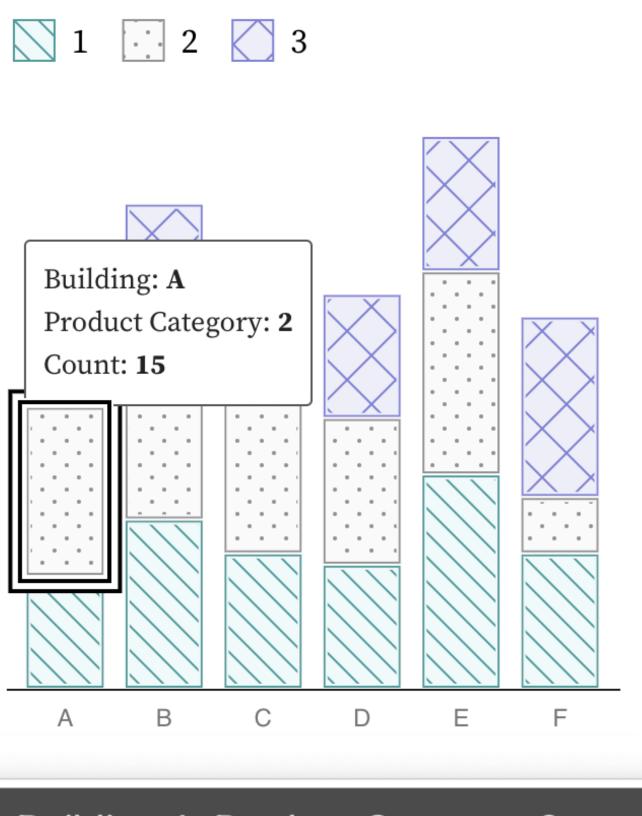


#### Comparing how user groups correlate to approval rates of product types

A high correlation value (close to 1) indicates that these users have a high approval rate of that product. A low correlation value (close to -1) indicates a negative approval rate of those products.

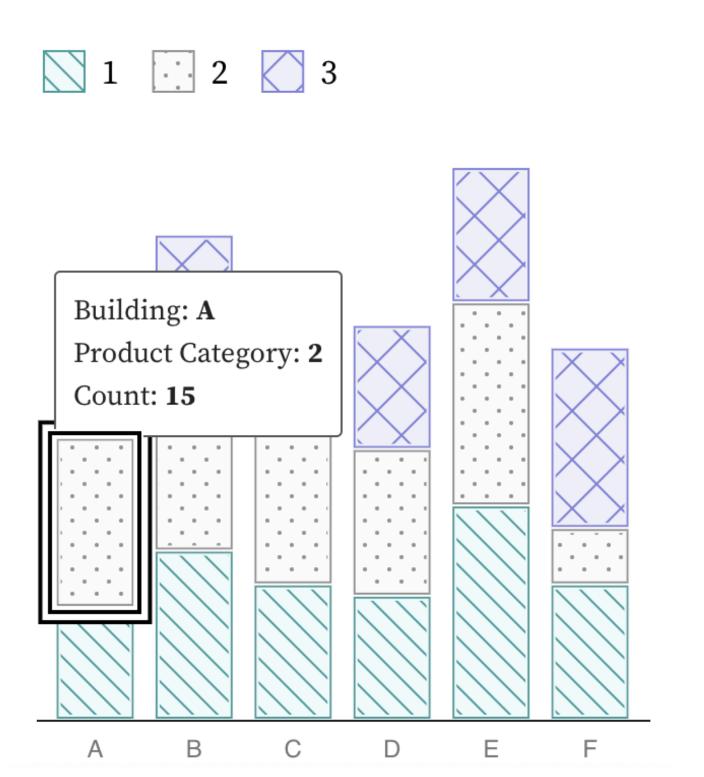


### Alt text should communicate operability



× Building A. Product Category 2.
Count 15. Bar 2 of 3. Image.

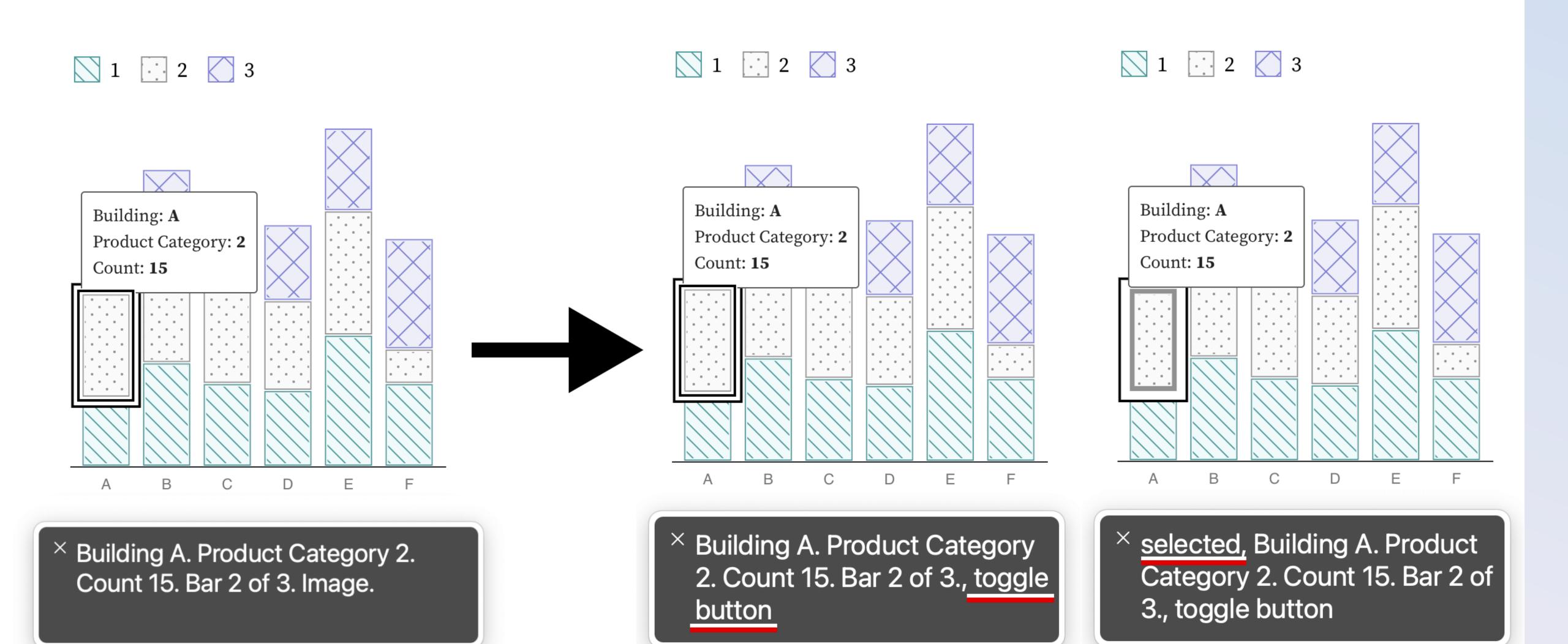
#### Semantics matter



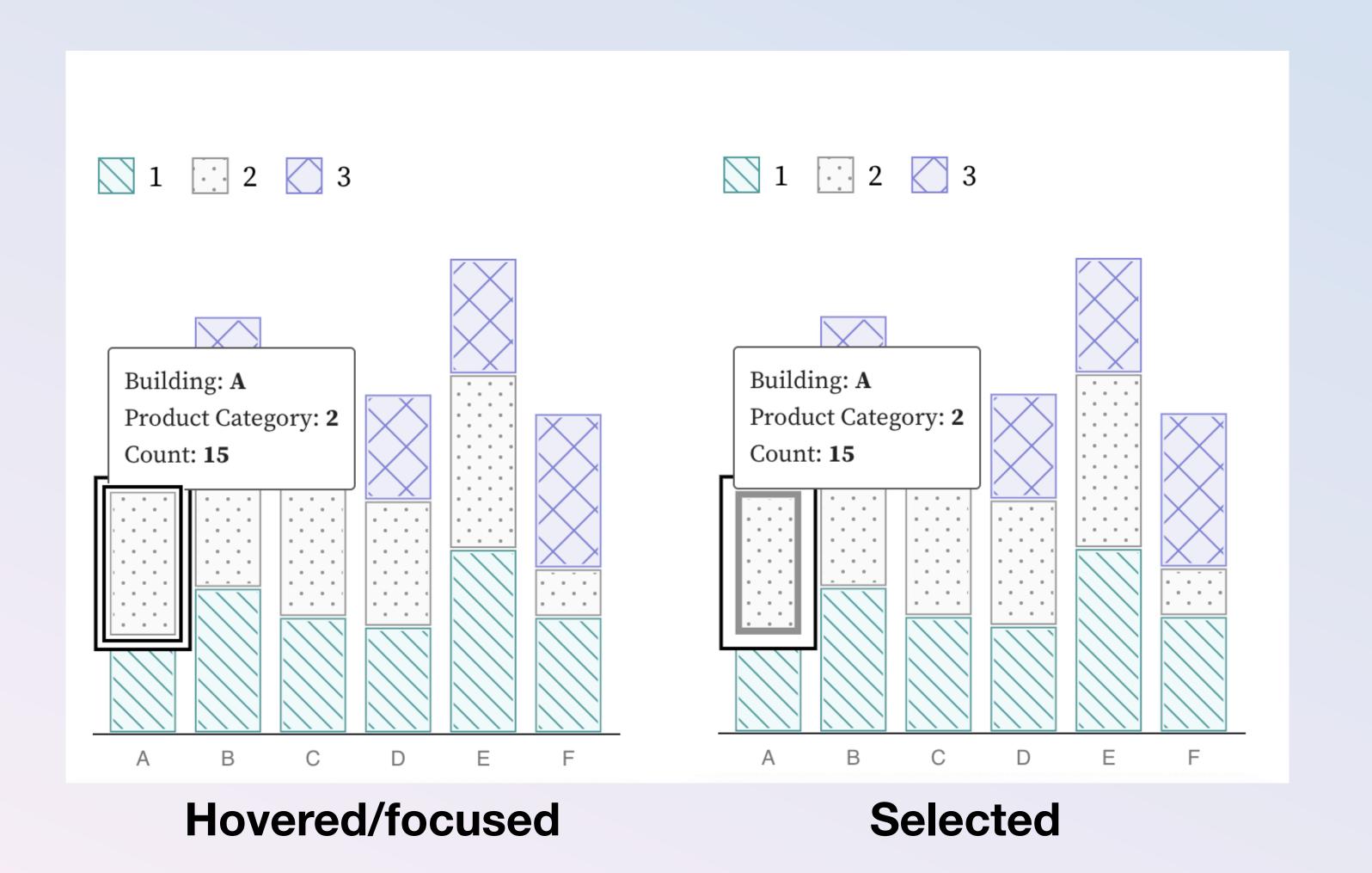
Building A. Product Category 2.
 Count 15. Bar 2 of 3. Image.

"Image" doesn't signal interactivity!

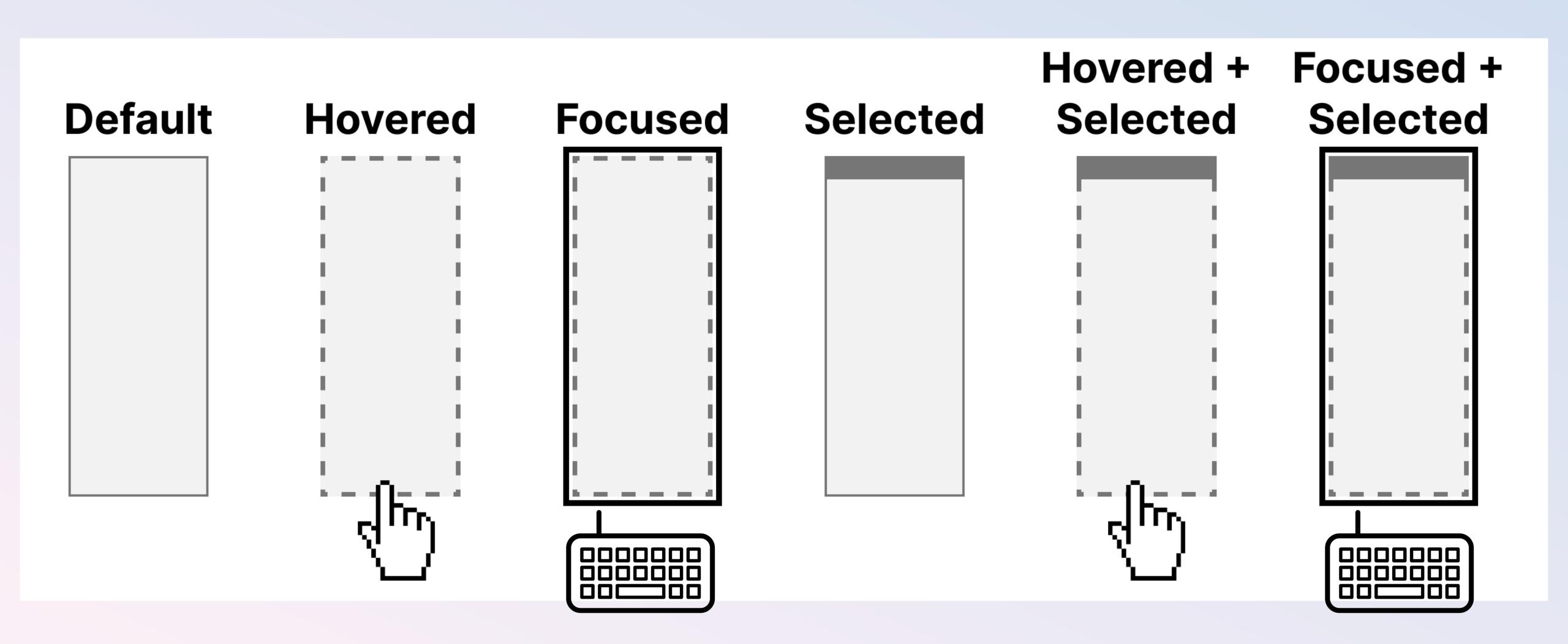
#### "Aria" states and roles are standardized



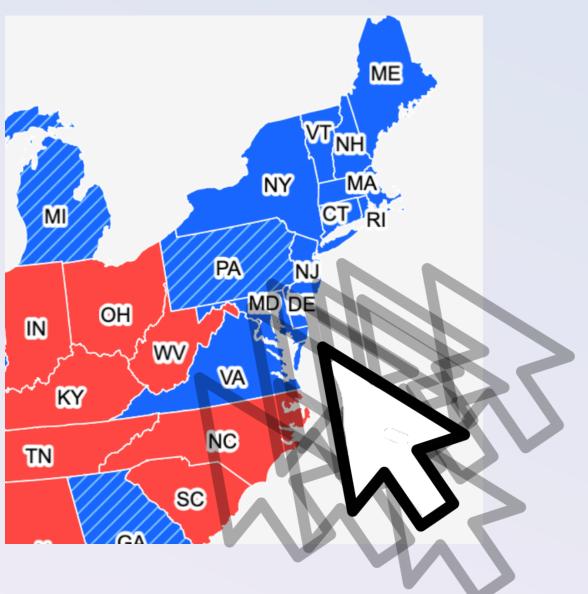
#### Communicating operability should be visual too



### Design your own interaction styling



## Expecting users to hover on something tiny is an accessibility design failure



#### **Operable Evaluation Toolkit:**

- 1. Use your mouse: can it do something meaningful? (tooltip, click event, etc) If so:
  - A. Test using a **keyboard-only**: can you navigate *and* use keyboard activation (spacebar/enter) on the visualization?
  - B. Test using a **screen reader**: Can you use a screen reader to navigate and use keyboard activation on the visualization?
- 2. Check sizes: can a mouse easily interact with this?