Informing with design

@alialmossawiSeptember 2015

"To inform, educate and entertain."

To inform

Clarity
Interaction
Abstraction

Clarity

Interaction

Abstraction

 $\frac{dc}{dt} =$ Es - Hy = Her -A=Hn=Hu - Kix(de) 1)= \$ 1 \ (1) = h 6 E-A Gag E, C, - A C. / E.TA 5 -- C. 19) dt = (E-A)(C+C) delay antilte - = (E-A) + (1/U(t,t))9>= 2(1) 1/16/>= 5 1> (10) 1= 15 (14=6) it det (t)

MARGARETAREYOUGRIEVI
NGOVERGOLDENGROVEUNL
EAVINGLEAVESLIKETHET
HINGSOFMANYOUWITHYOU
RFRESHTHOUGHTSCAREFO
RCANYOUAHASTHEHEARTG
ROWSOLDERITWILLCOMET
OSUCHSIGHTSCOLDER

Margaret, are you grieving

Over Goldengrove unleaving?

Leaves, like the things of man, you

With your fresh thoughts care for, can you?

Ah! as the heart grows older

It will come to such sights colder

Programming
Python, JavaScript

Journalism

Vox

Statistics

FiveThirtyEight

Ideally, we want the reader to grasp our work with minimal investment

Any extra acts of cognition that users are made to perform incur a **debt** that we must then relieve in the form of increased **value**

(1)

Ideally, we want the reader to grasp our work with minimal investment

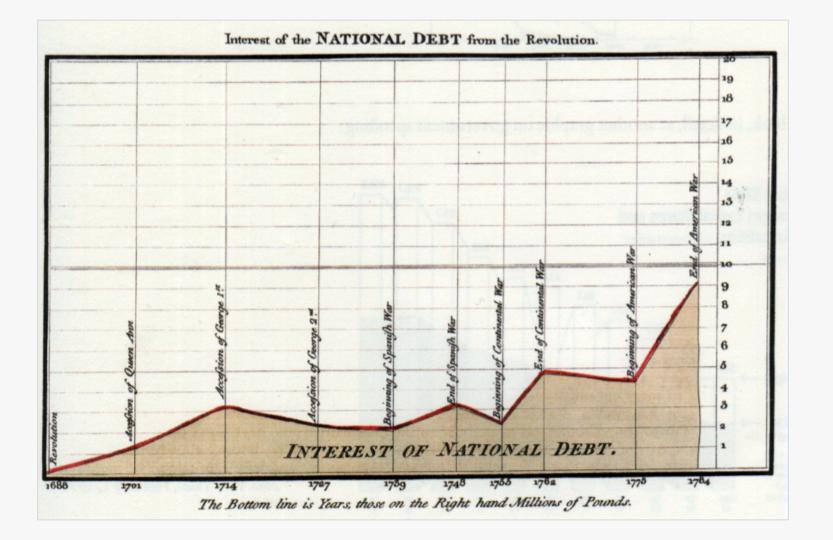
Any extra acts of cognition that users are made to perform incur a **debt** that we must then relieve in the form of increased **value**

Ideally, we want the reader to grasp our work with minimal investment

Any extra acts of cognition that users are made to perform incur a **debt** that we must then relieve in the form of increased **value** (2)

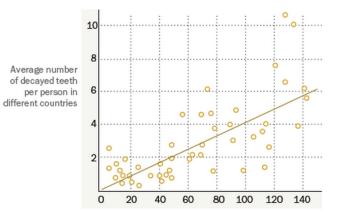


Economist.com



63% of American Adults Can Correctly Read This Chart

Which of the following statements best describes the data in the graph below?



Average sugar consumption (grams per person per day)

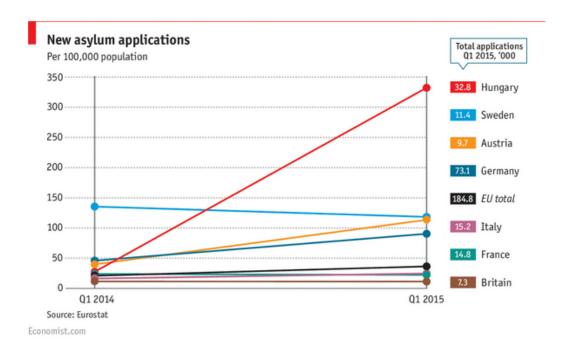
- A. In recent years, the rate of cavities has increased in many countries
- B. In some countries, people brush their teeth more frequently than in other countries
- C. The more sugar people eat, the more likely they are to get cavities (CORRECT)
- D. In recent years, the consumption of sugar has increased in many countries

Source: American Trends Panel (wave 6). Survey of U.S. adults conducted Aug. 11-Sept. 3, 2014.

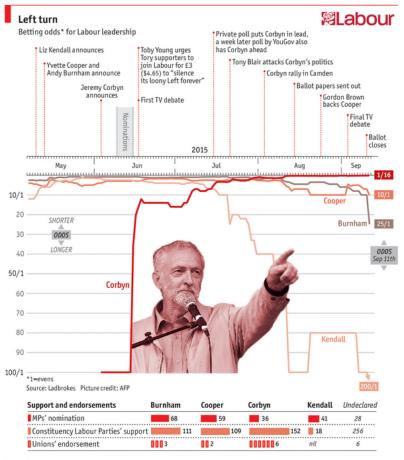
PEW RESEARCH CENTER

To increase clarity

Idea 1: Use charts that people know



The Economist



Economist.com

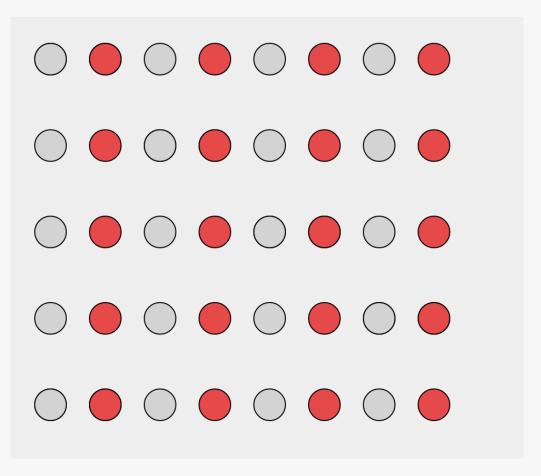
The Economist

To increase clarity

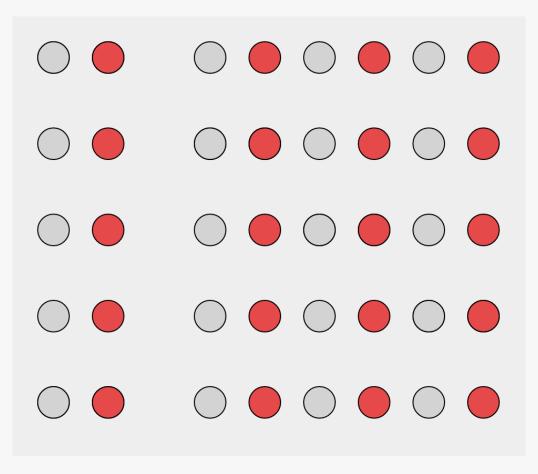
Idea 1: Use charts that people know

Idea 2: Make things we care about stand out

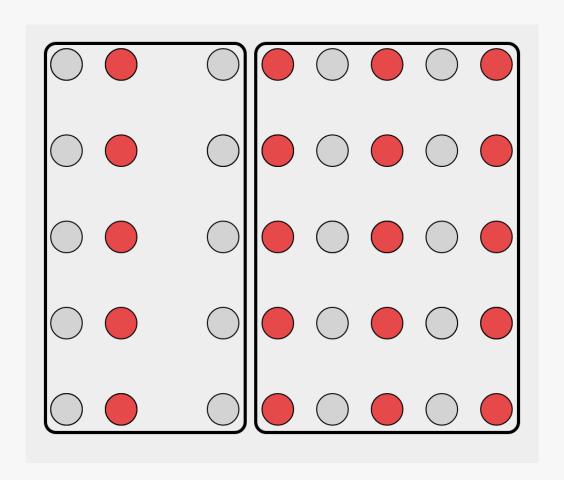
Gestalt principles



Elijah Meeks



Elijah Meeks



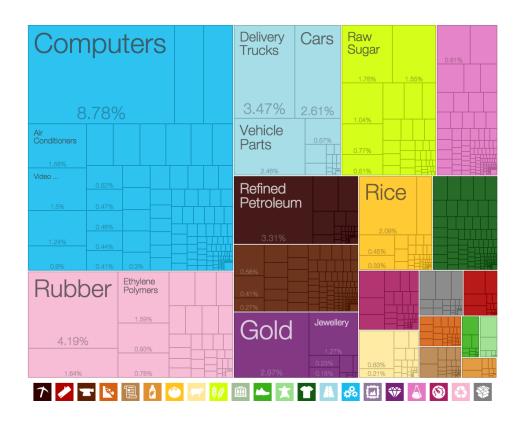
Elijah Meeks

To increase clarity

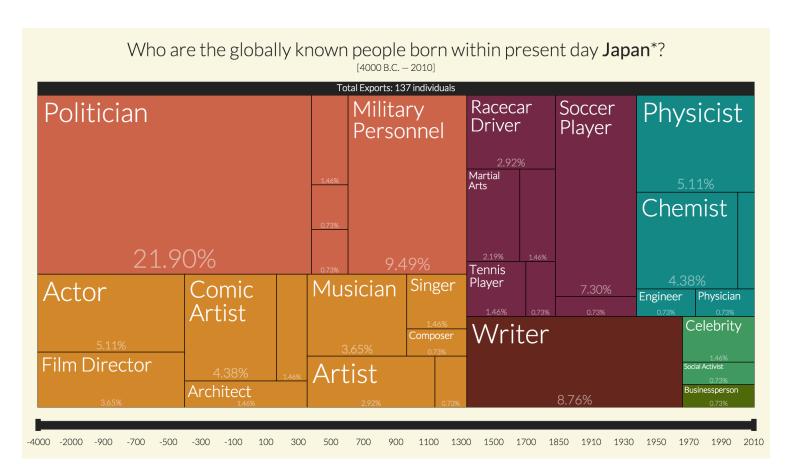
Idea 1: Use charts that people know

Idea 2: Make things we care about stand out

Idea 3: Be cognizant of how the reader perceives visual elements



Macro Connections, Media Lab



So you're saying use treemaps for hierarchical data?

	Tree	Sunburst	Treemap	Matrix
Answers our questions?	3 out of 5	2 out of 5	2 out of 5	4 out of 5
Compact?	Not really	Kind of	Yes	Yes
Comparability?	Not really	Kind of	Kind of	Yes

- 1. How are employees distributed throughout the organization?
- 2. How flat is the organization?
- 3. Which teams are the most spread-out?
- 4. How big are teams?
- 5. To what extent are offices used?

Vissarion Belinsky

Manages Mikhail Bakunin Team size 1

Staff in each timezone

1 (median), 1 (mean)

Potential lost hours*

0 hours (between staff)

0 hours (between manager and staff)

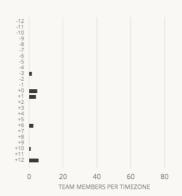
Maximum time difference

0 hours (between staff)

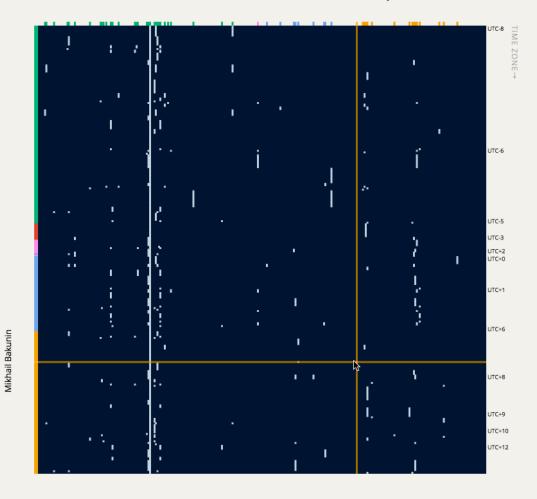
0 hours (between manager and staff)

Largest group in the same time zone

1 staff, 100% of team are in UTC+6



* The difference between the timezone with the largest group of staff (mode) and the farthest timezone from the mode.





The path from the familiar to the novel ought to be fraught with **caution** and **reflection**

To increase clarity

Idea 1: Use charts that people know

Idea 2: Make things we care about stand out

Idea 3: Be cognizant of how the reader perceives visual elements

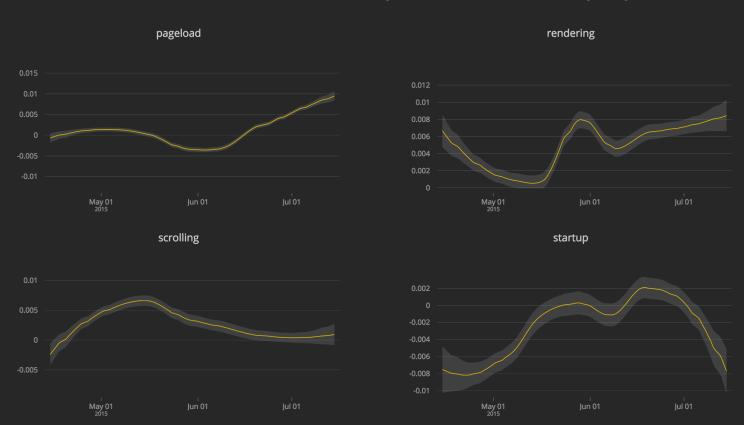
Idea 4: The path from the familiar to the novel ought to be fraught with caution and reflection

Quality Indices



SUITES RAW DATA

A **suite bucket** is a combination of individual suites. This view gives us a sense of how our suites are doing at a high-level.



Quality Indices

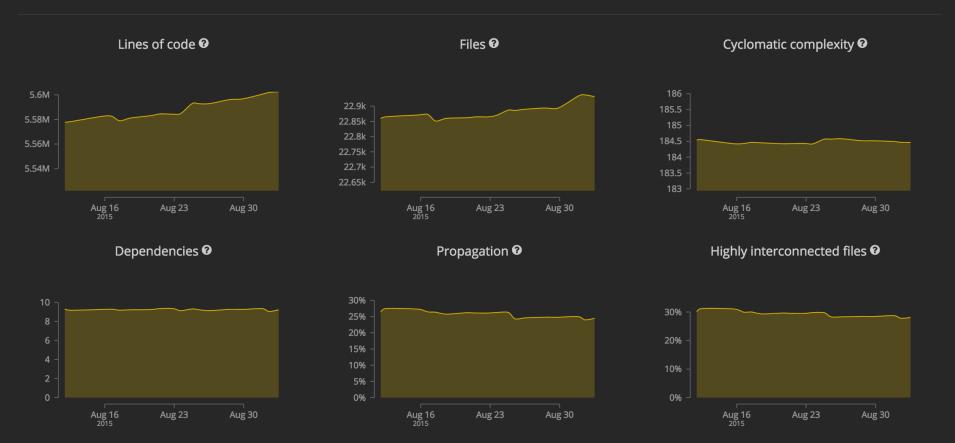


For each of our suite buckets, here is a breakout of the individual **suites** that combine to form a suite bucket.

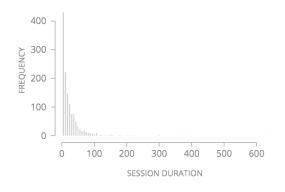


Code Quality

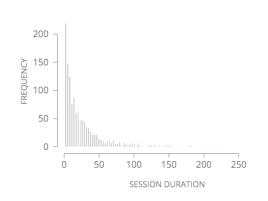
Architectural measures of complexity for revisions in mozilla-central.



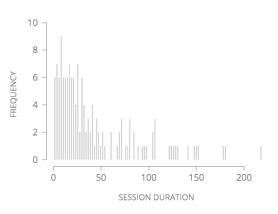




Sessions that search



Sessions that book



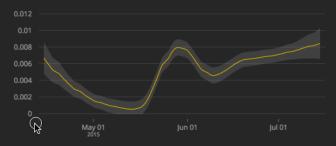
MetricsGraphics.js

300,000 hits 5,200 Github stars Clarity

Interaction

Abstraction

rendering

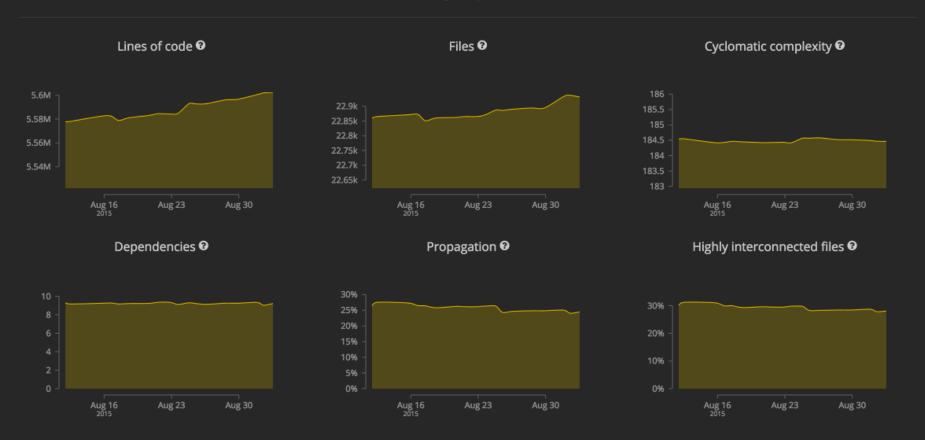


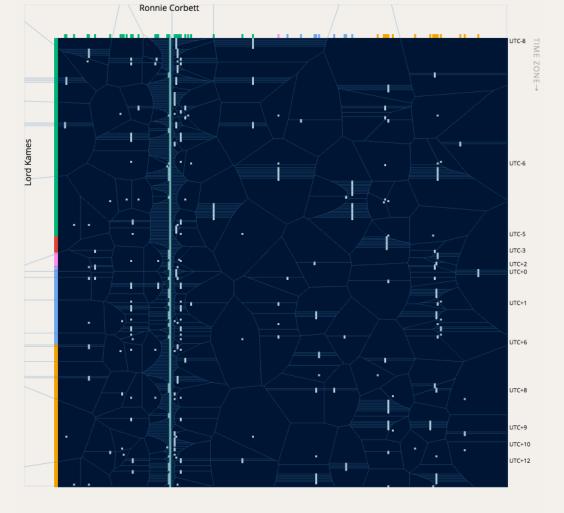
Brushing Addon by Dan De Havilland **②**

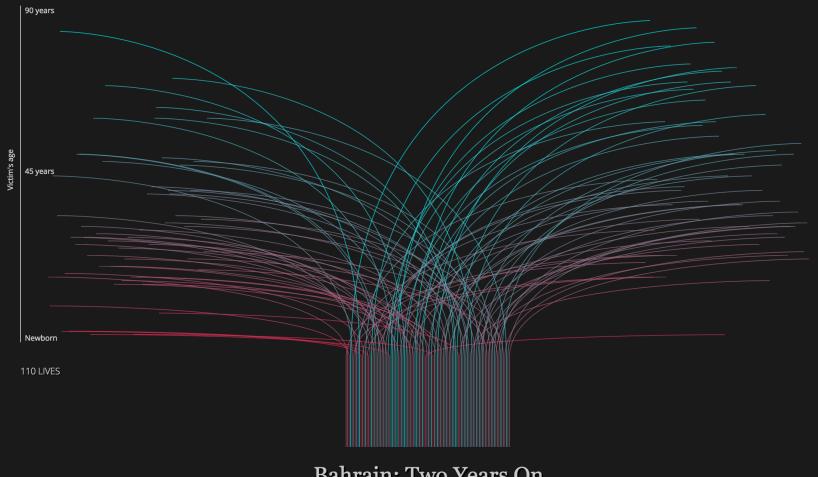


Code Quality

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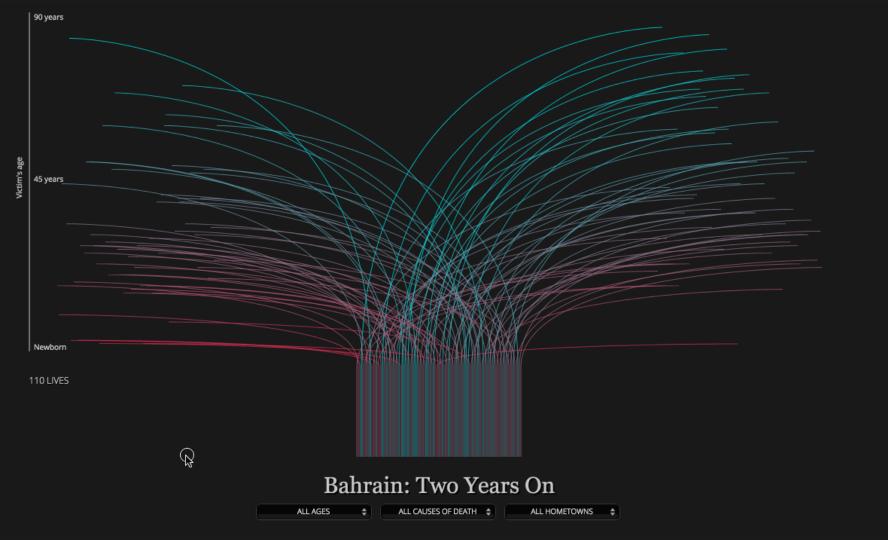


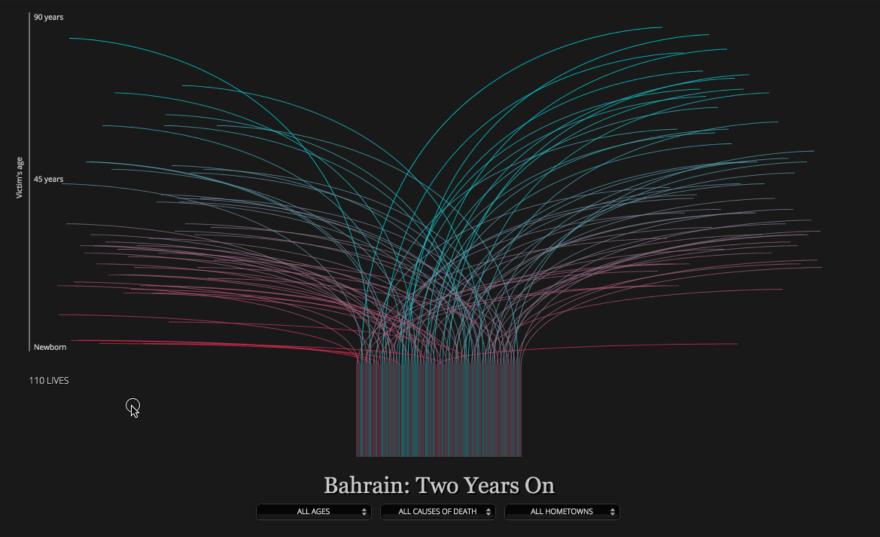


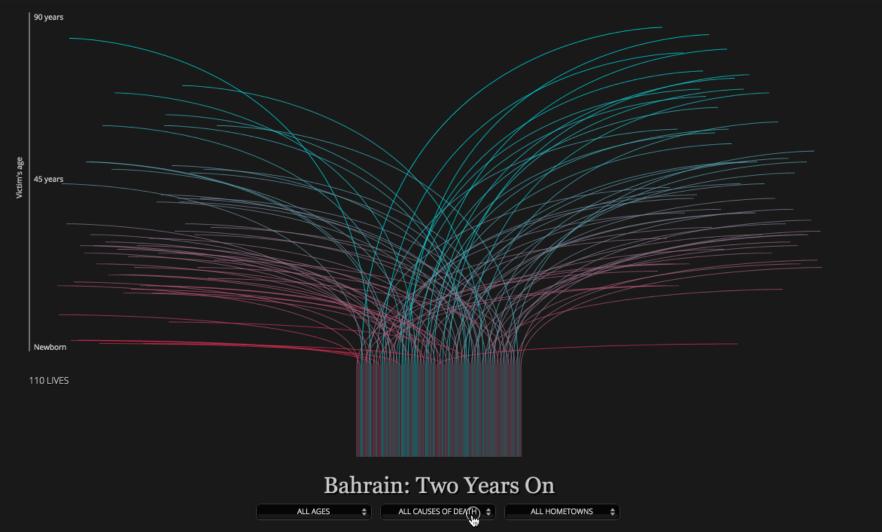


Bahrain: Two Years On

ALL AGES ALL CAUSES OF DEATH | \$ ALL HOMETOWNS







Clarity

Interaction

Abstraction

Abstraction hides detail, good abstraction hides the right detail







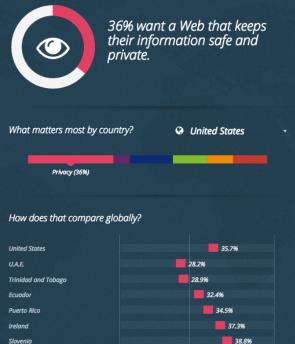
Firefox Thanks for helping to shape the future of the Web.

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min (14.2%)

39.6%

med (30.2%)

46.8%

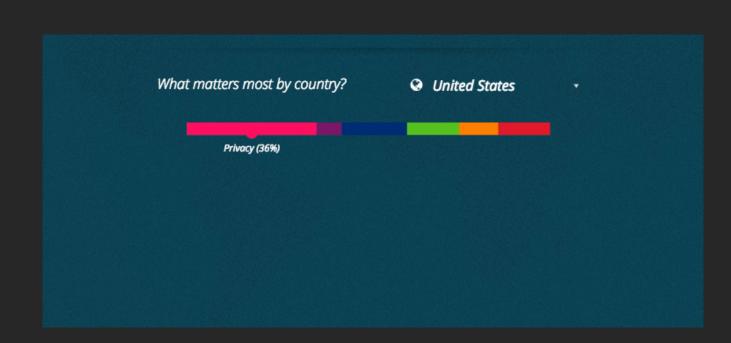
max (49.7%)

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Firefox & privacy

Firefox is made under the principle that security and privacy are fundamental and must not be treated as optional.











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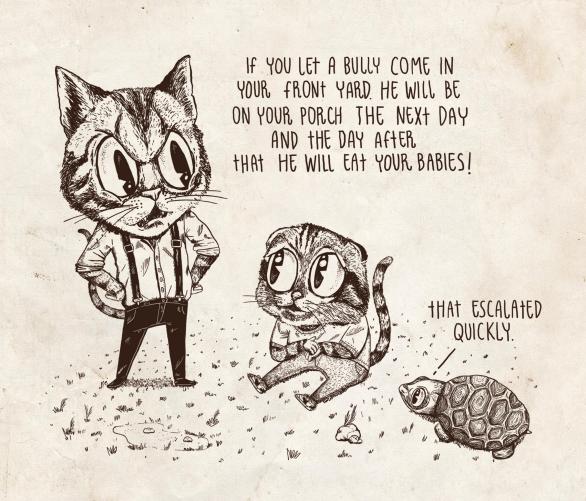
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Firefox & privacy

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Final thought

"We make to ourselves pictures of facts."





almossawi.com/informing-with-design



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