Information Visualization

Daniel Gonçalves, Sandra Gama

04

Tabular Data

01

VISUALIZING AMOUNTS

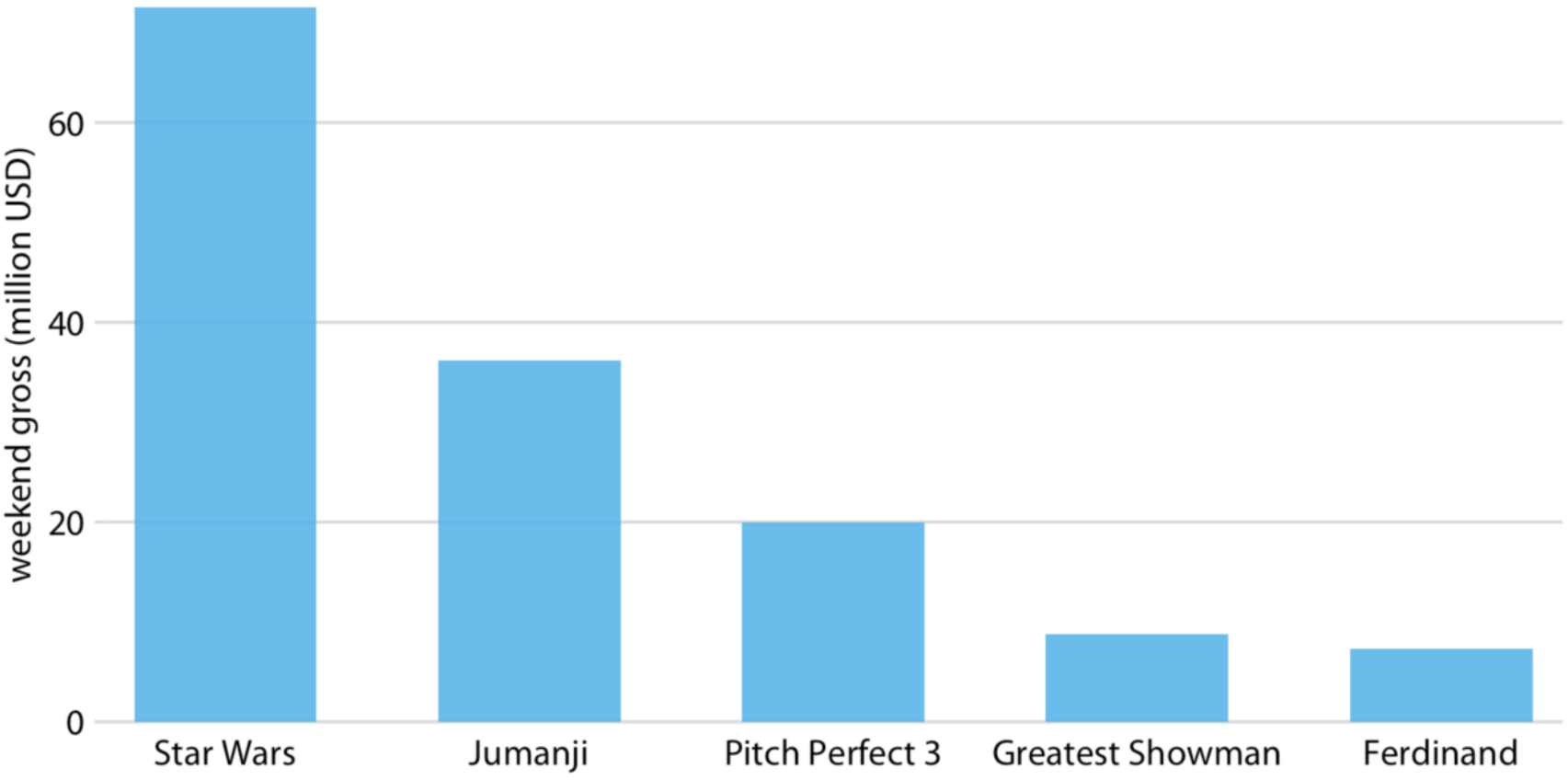
KEEP CALM

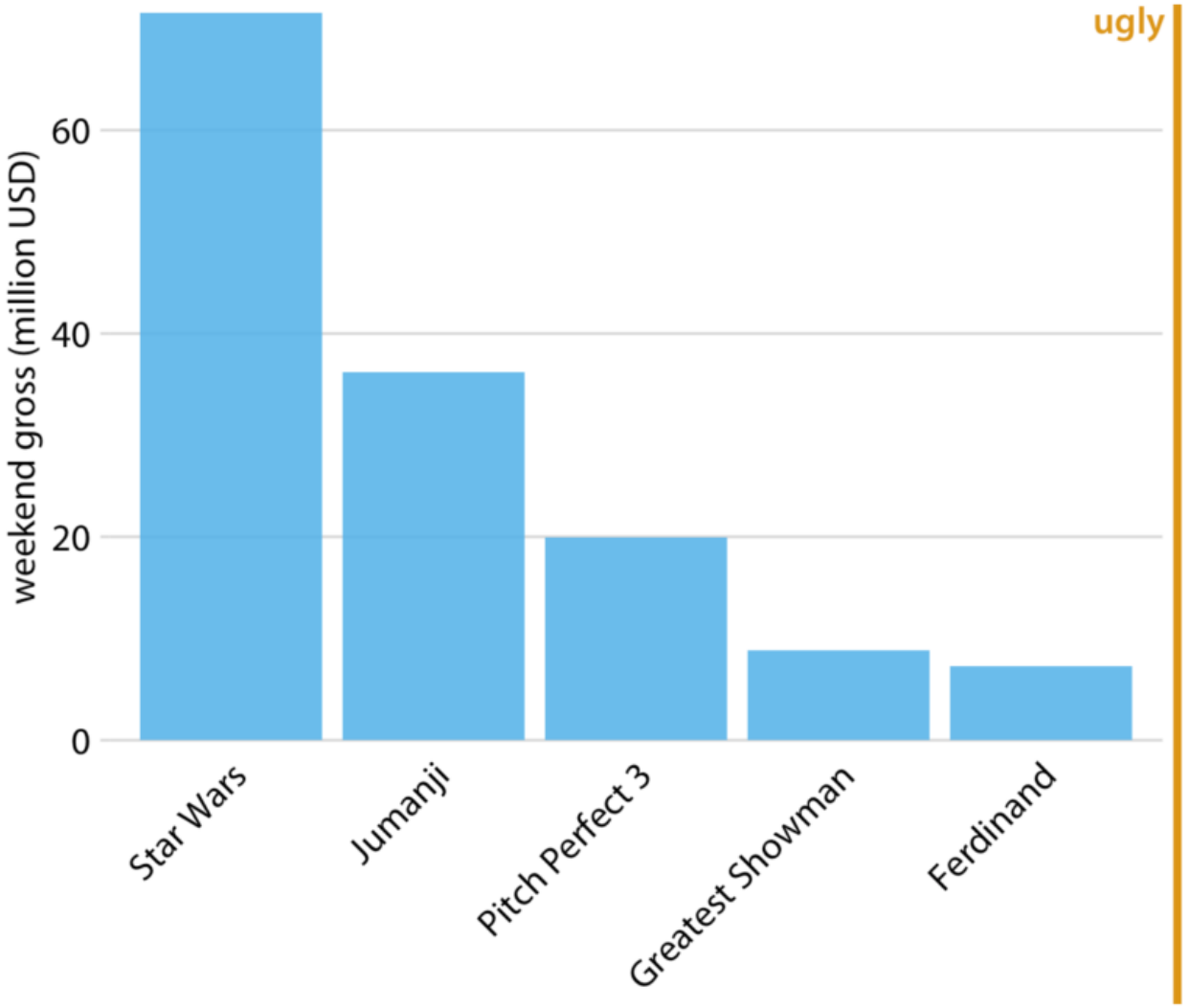
TELL ME WHAT TO DO

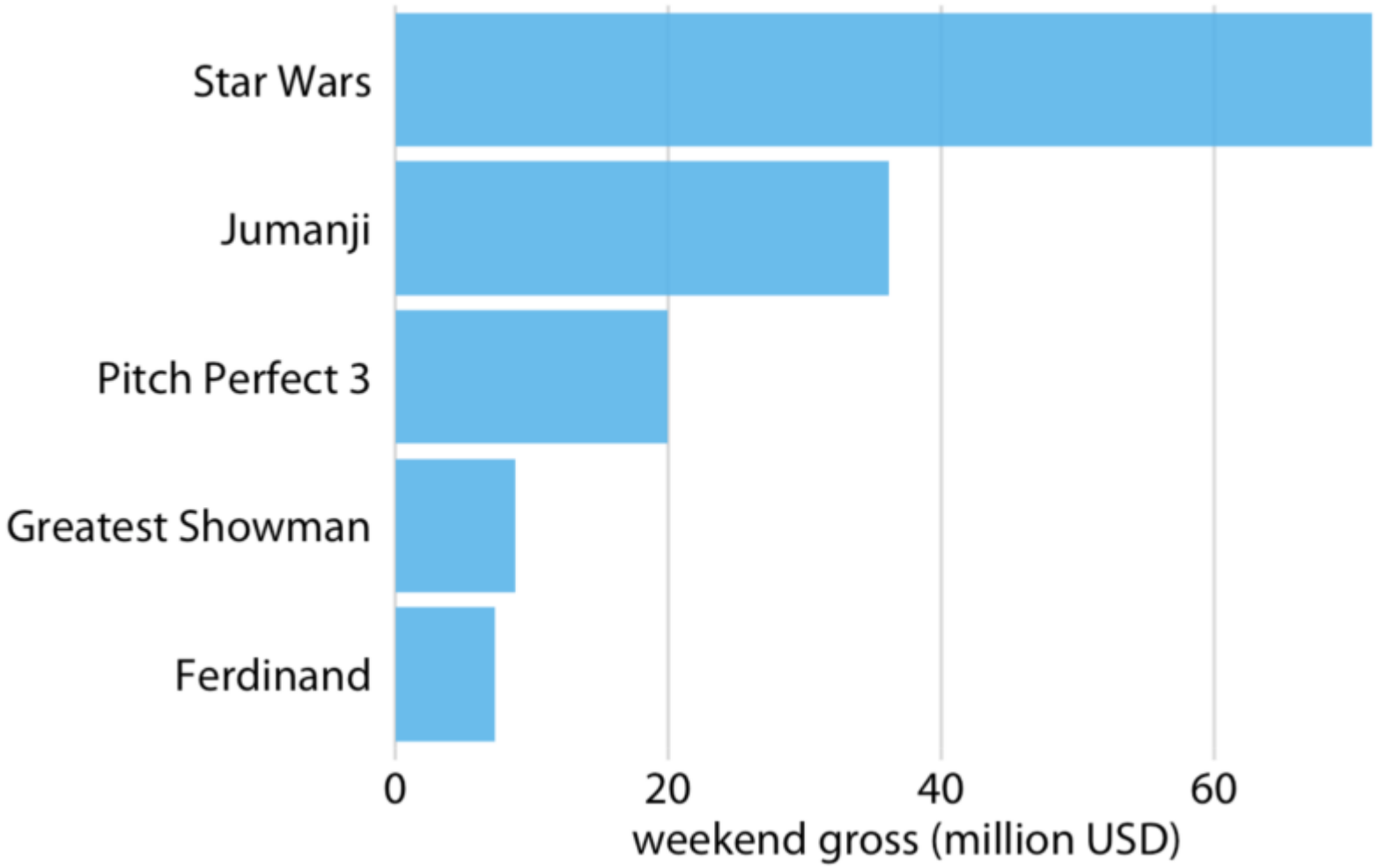
Tell me what to do!

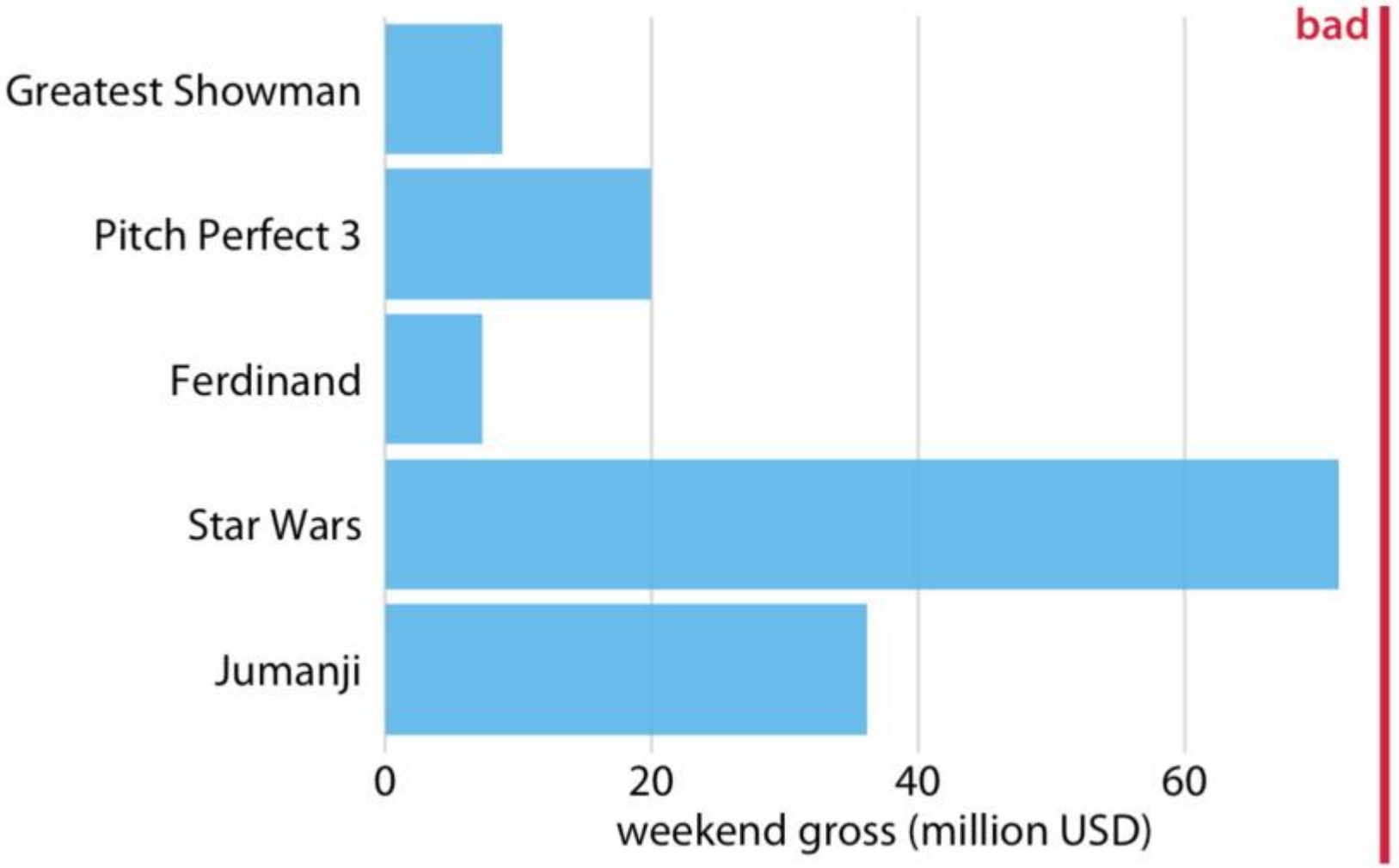
Represent the data in this table!

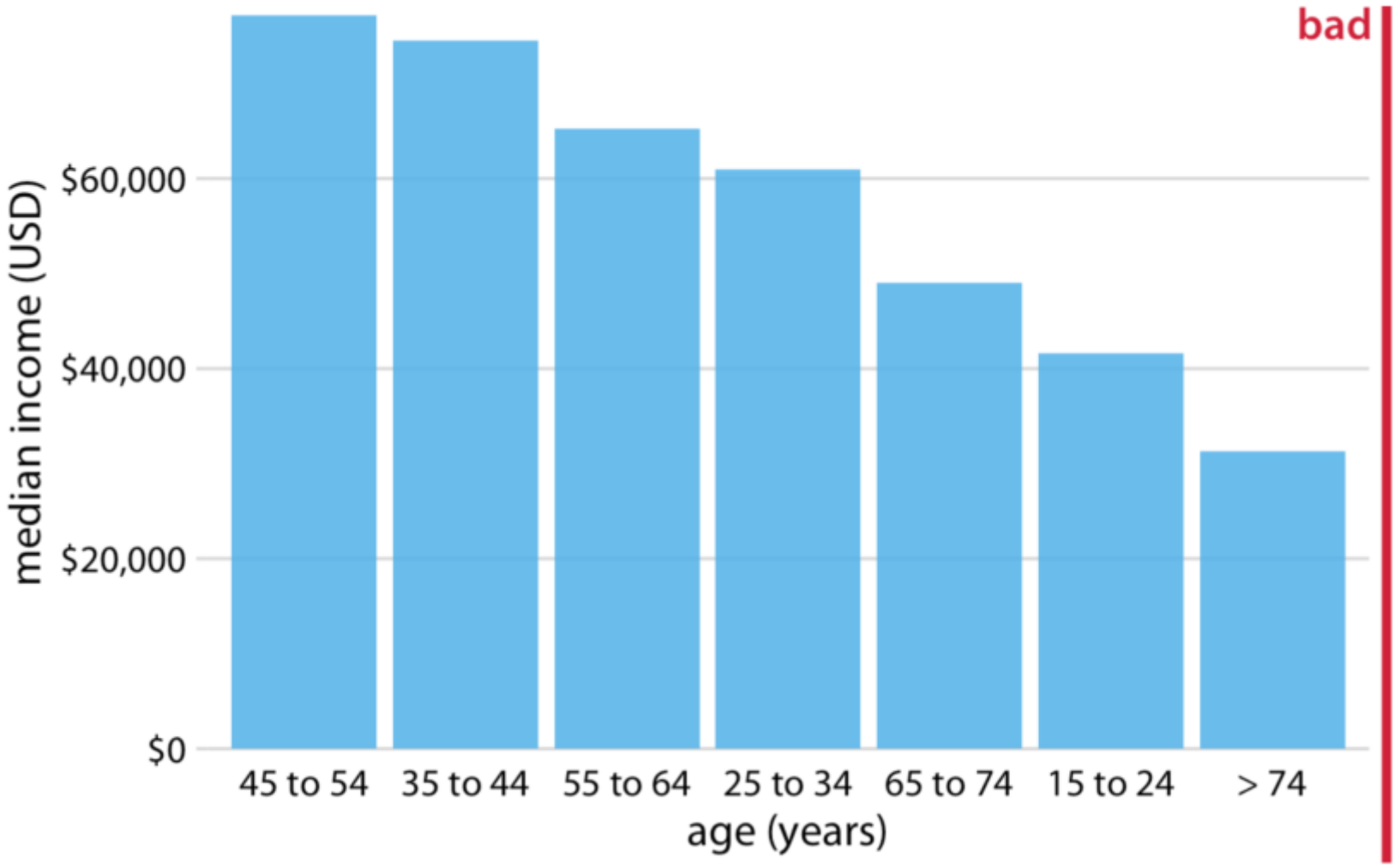
Rank	Title	Weekend gross
1	*Star Wars: The Last Jedi*	$71,565,498
2	*Jumanji: Welcome to the Jungle*	$36,169,328
3	*Pitch Perfect 3*	$19,928,525
4	*The Greatest Showman*	$8,805,843
5	*Ferdinand*	$7,316,746

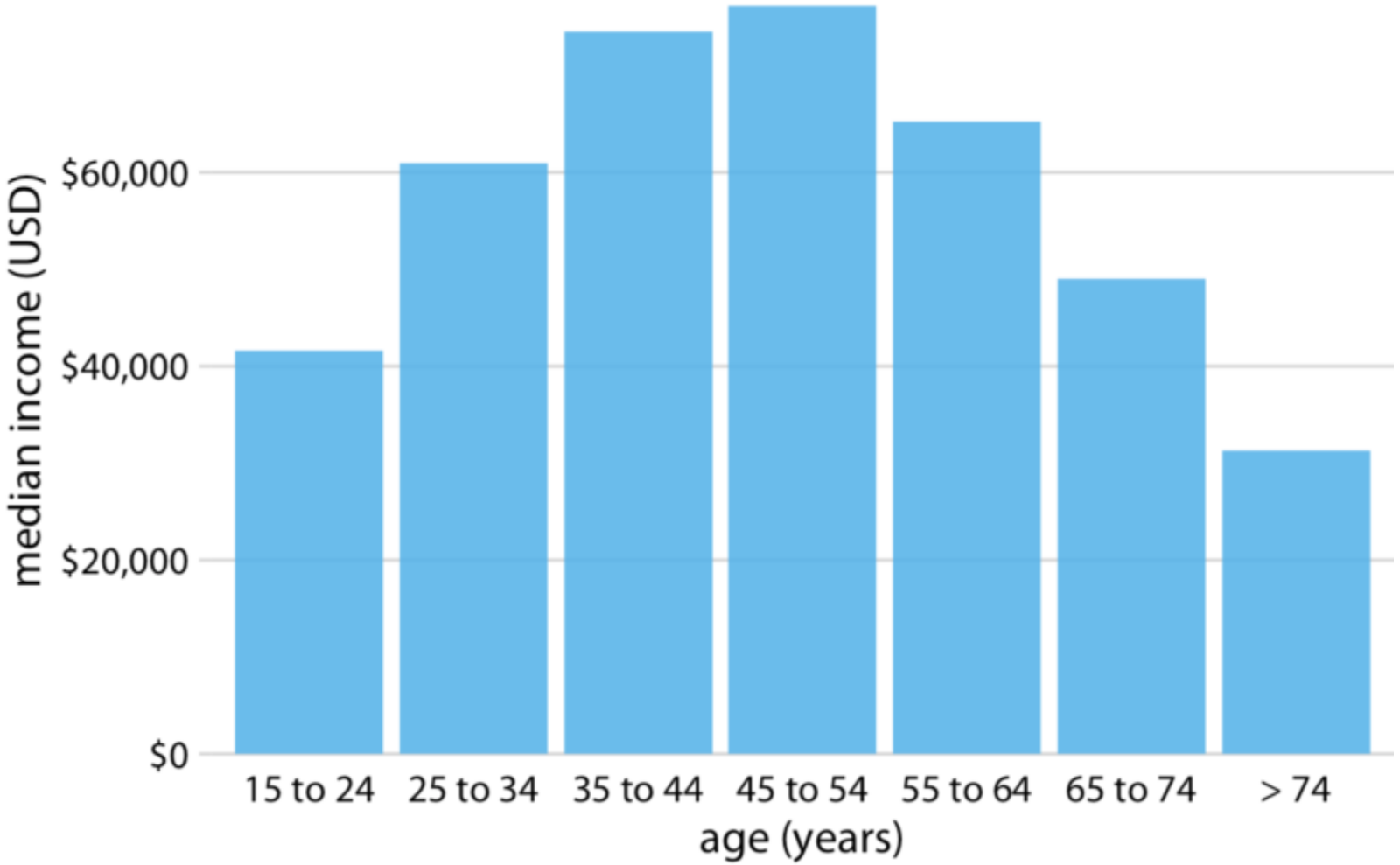

weekend gross (million USD)
60
40
20
0
Star Wars
Jumanji
Pitch Perfect 3
Greatest Showman
Ferdinand


ugly
weekend gross (million USD)
60
40
20
0
Star Wars
Jumanji
Pitch Perfect 3
Greatest Showman
Ferdinand


Star Wars
Jumanji
Pitch Perfect 3
Greatest Showman
Ferdinand
0
20
40
60
weekend gross (million USD)


bad
Greatest Showman
Pitch Perfect 3
Ferdinand
Star Wars
Jumanji
0
20
40
60
weekend gross (million USD)


bad
median income (USD)
$60,000
$40,000
$20,000
$0
45 to 54
35 to 44
55 to 64
25 to 34
65 to 74
15 to 24
> 74
age (years)


median income (USD)
$60,000
$40,000
$20,000
$0
15 to 24
25 to 34
35 to 44
45 to 54
55 to 64
65 to 74
> 74
age (years)

KEEP CALM

TELL ME WHAT TO DO

03

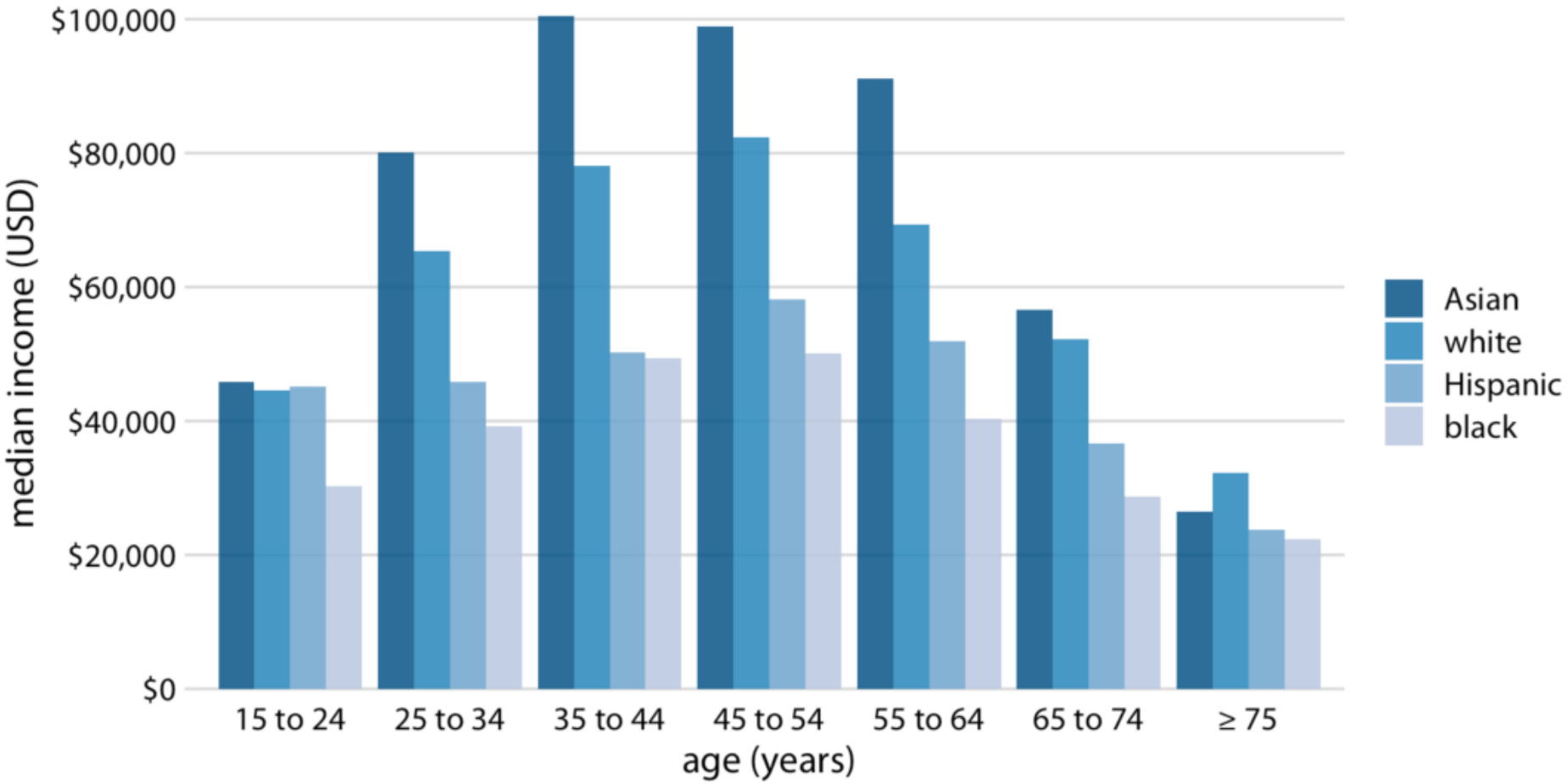
MULTIVARIATE

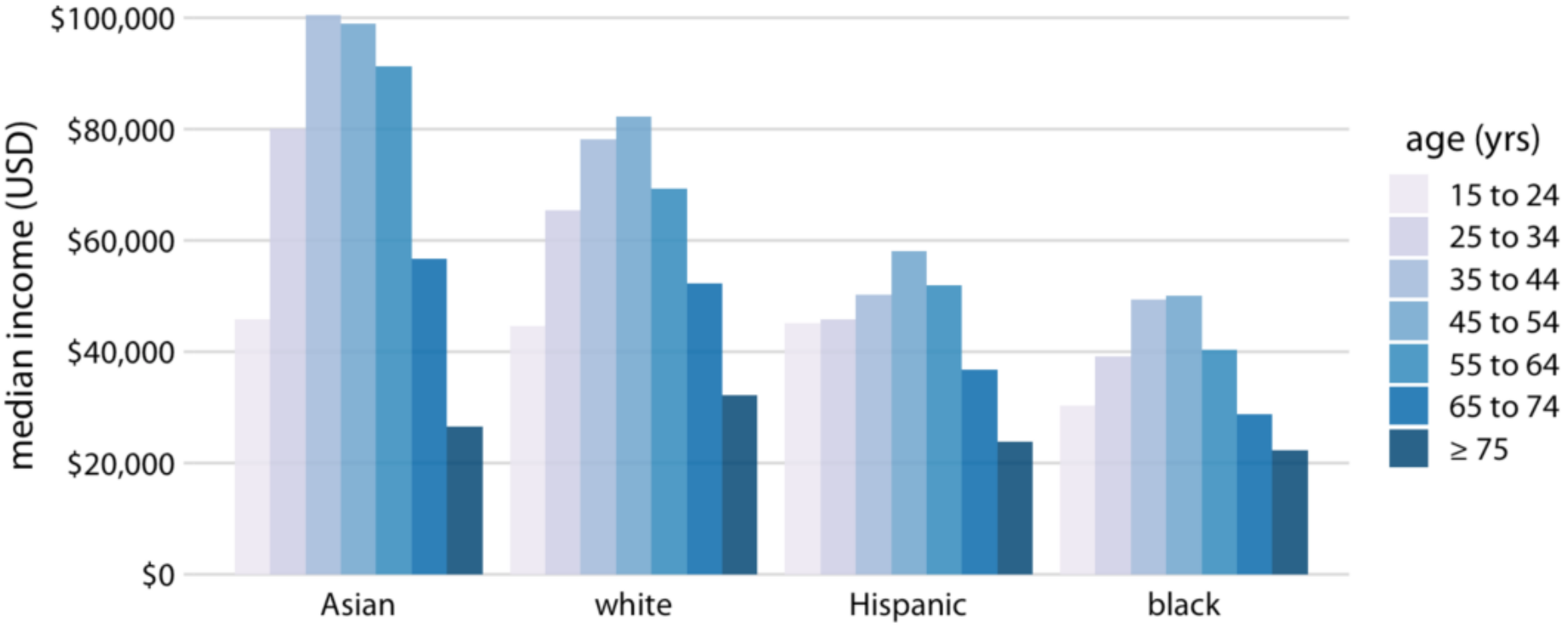
KEEP CALM

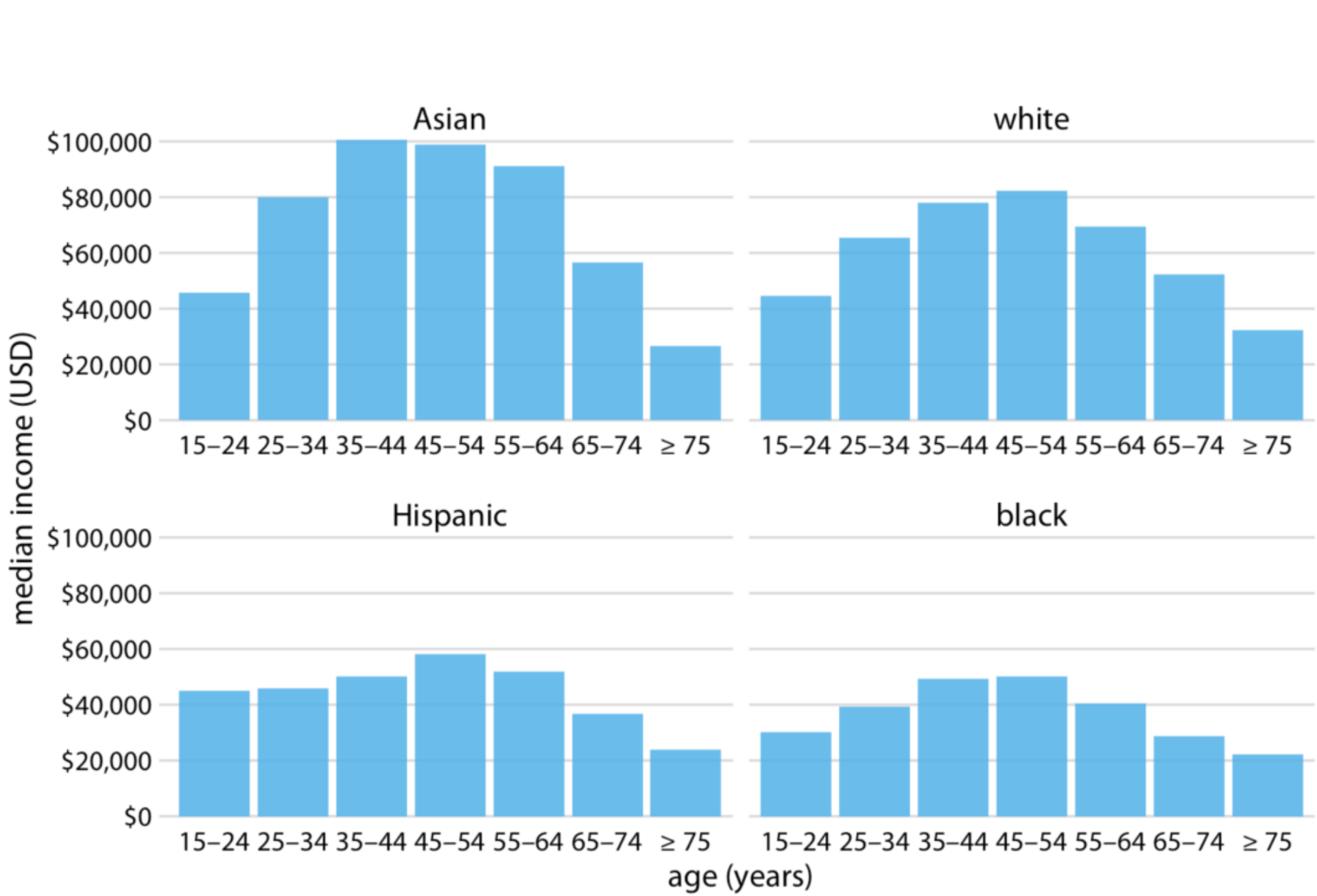
TELL ME WHAT TO DO

What is wrong here?

What can you read? Disadvantages?




median income (USD)
$100,000
$80,000
$60,000
$40,000
$20,000
$0
Asian
white
Hispanic
black
age (yrs)
15 to 24
25 to 34
35 to 44
45 to 54
55 to 64
65 to 74
≥ 75


Asian
white
Hispanic
black
median income (USD)
$100,000
$80,000
$60,000
$40,000
$20,000
$0
15–24
25–34
35–44
45–54
55–64
65–74
≥ 75
age (years)

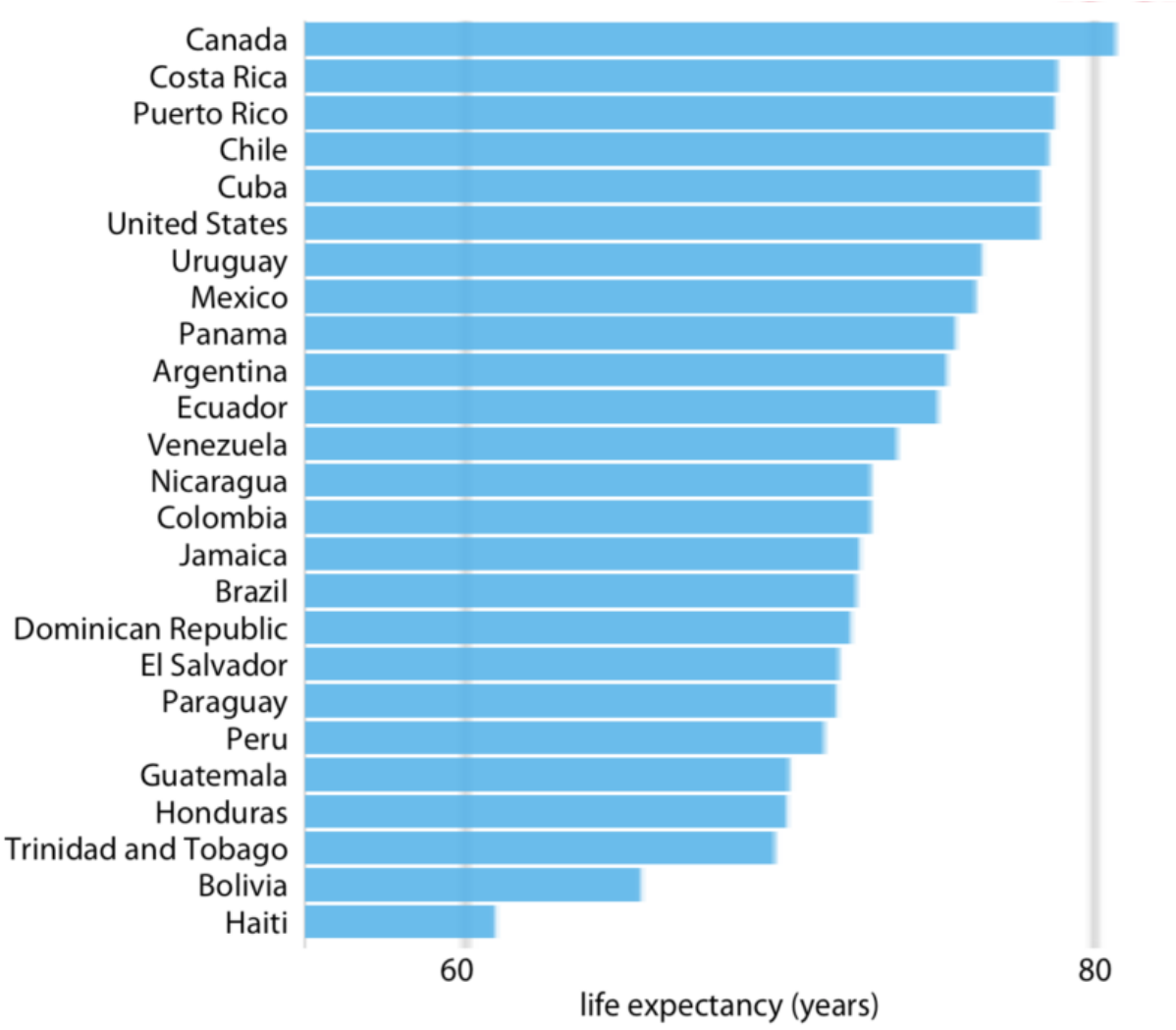
KEEP CALM

TELL ME WHAT TO DO

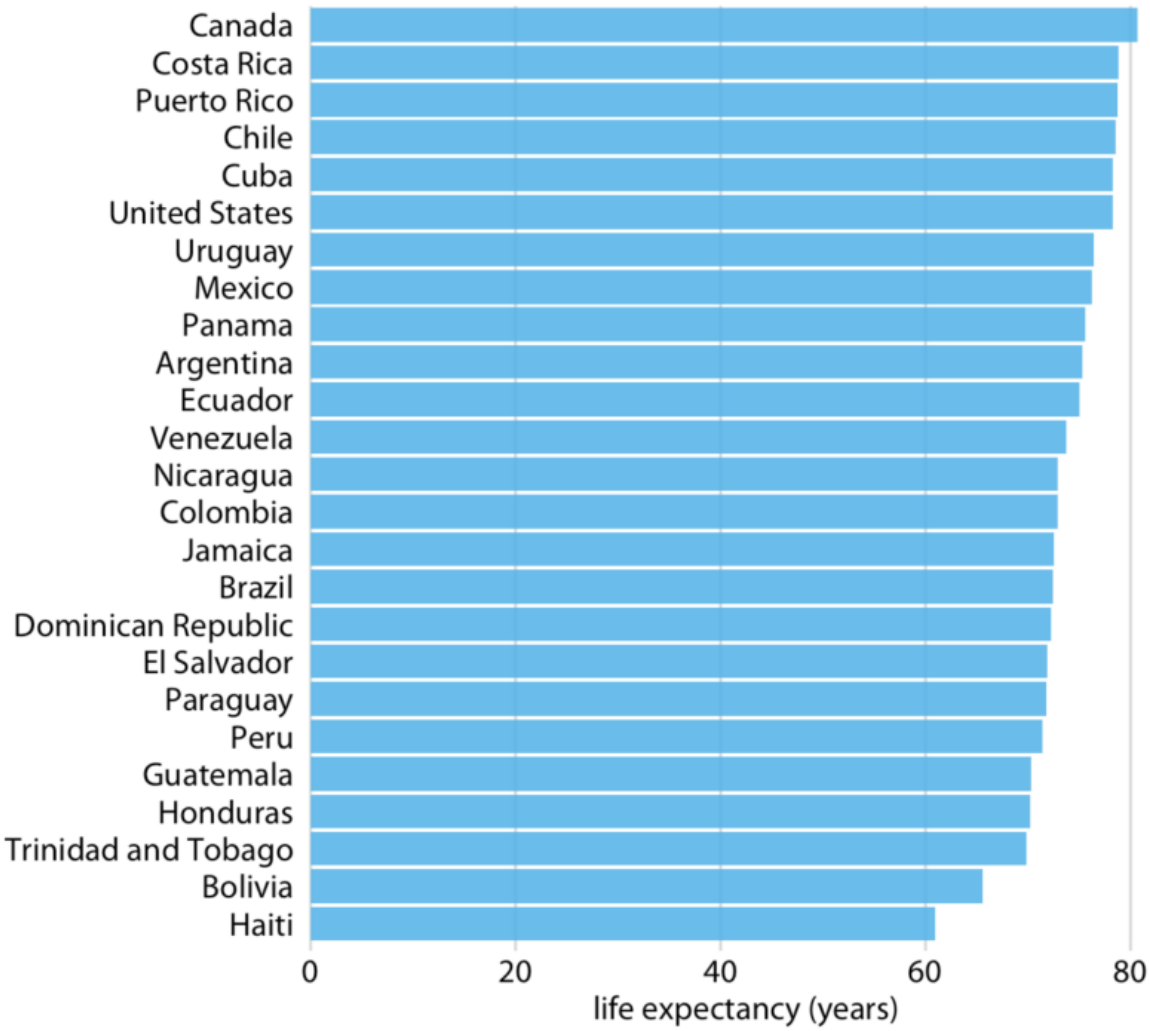
KEEP CALM

TELL ME WHAT TO DO

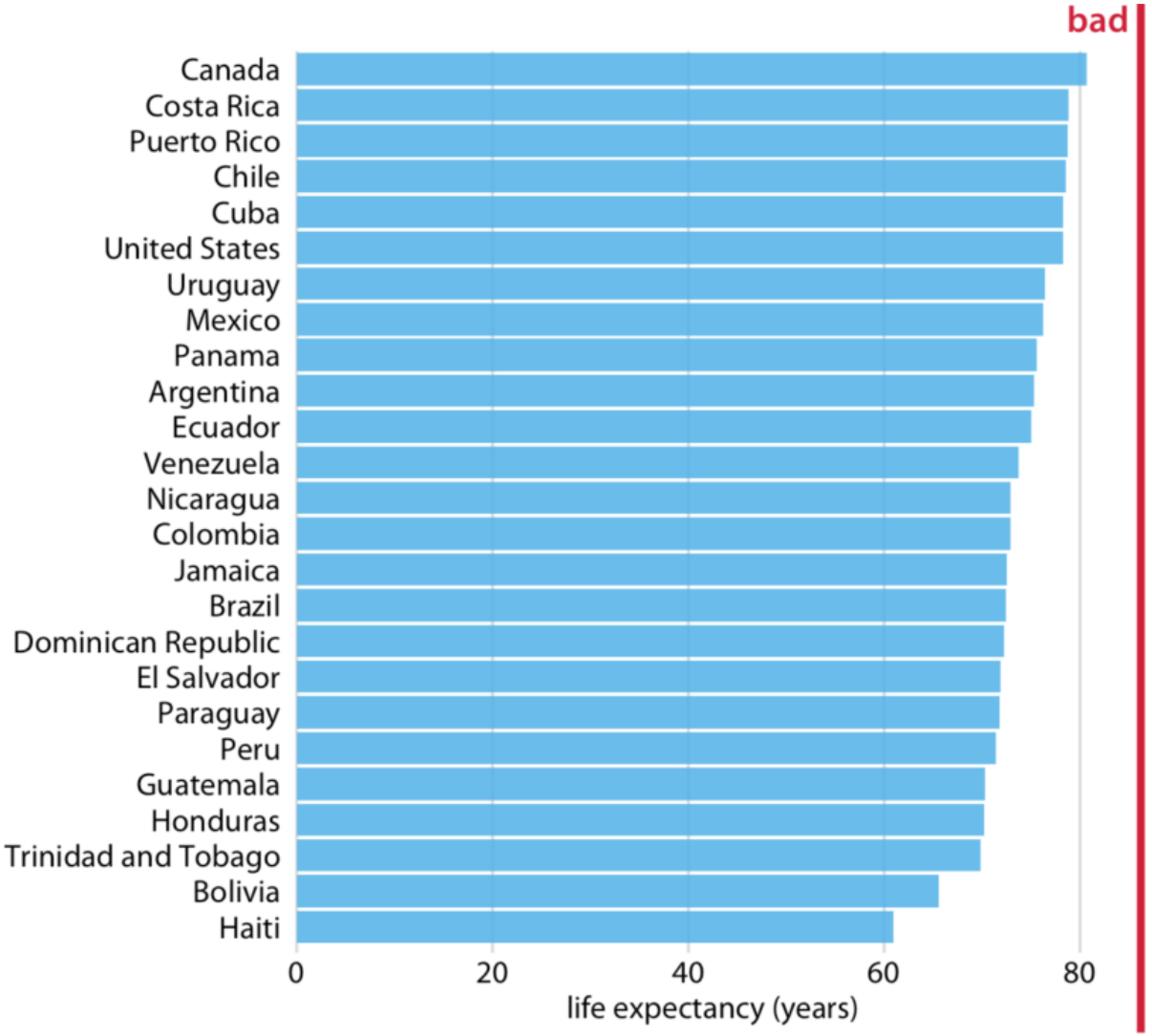
What's going on here?



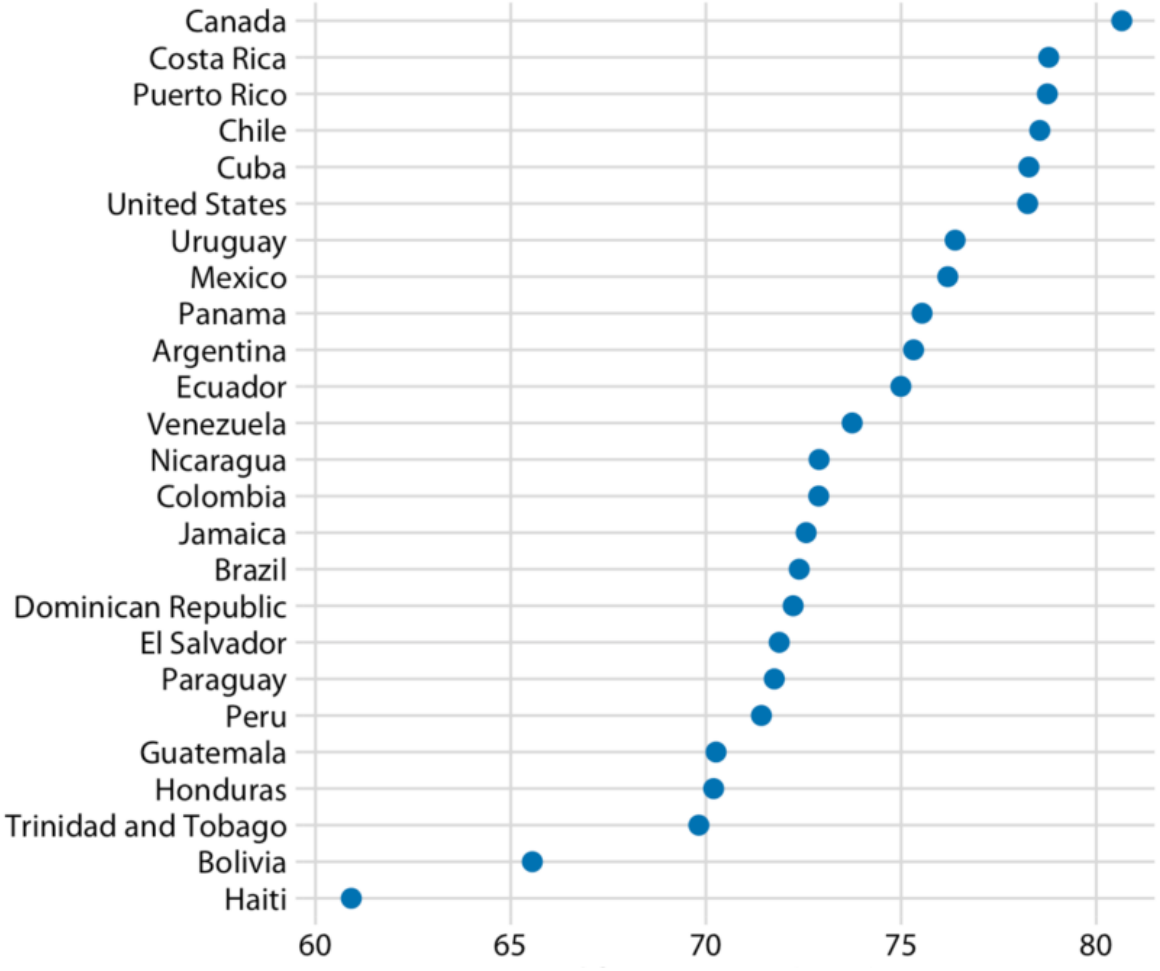
Kinda better…



What's going on here?



What's going on here?



KEEP CALM

TELL ME WHAT TO DO

THERE WILL
NOW BE A
BRIEF
INTERMISSION

INTERNET ACTIVITY
MY SON LEFT HIS COMPUTER OPEN
u/SrGrafo

THERE WILL
NOW BE A
BRIEF
INTERMISSION

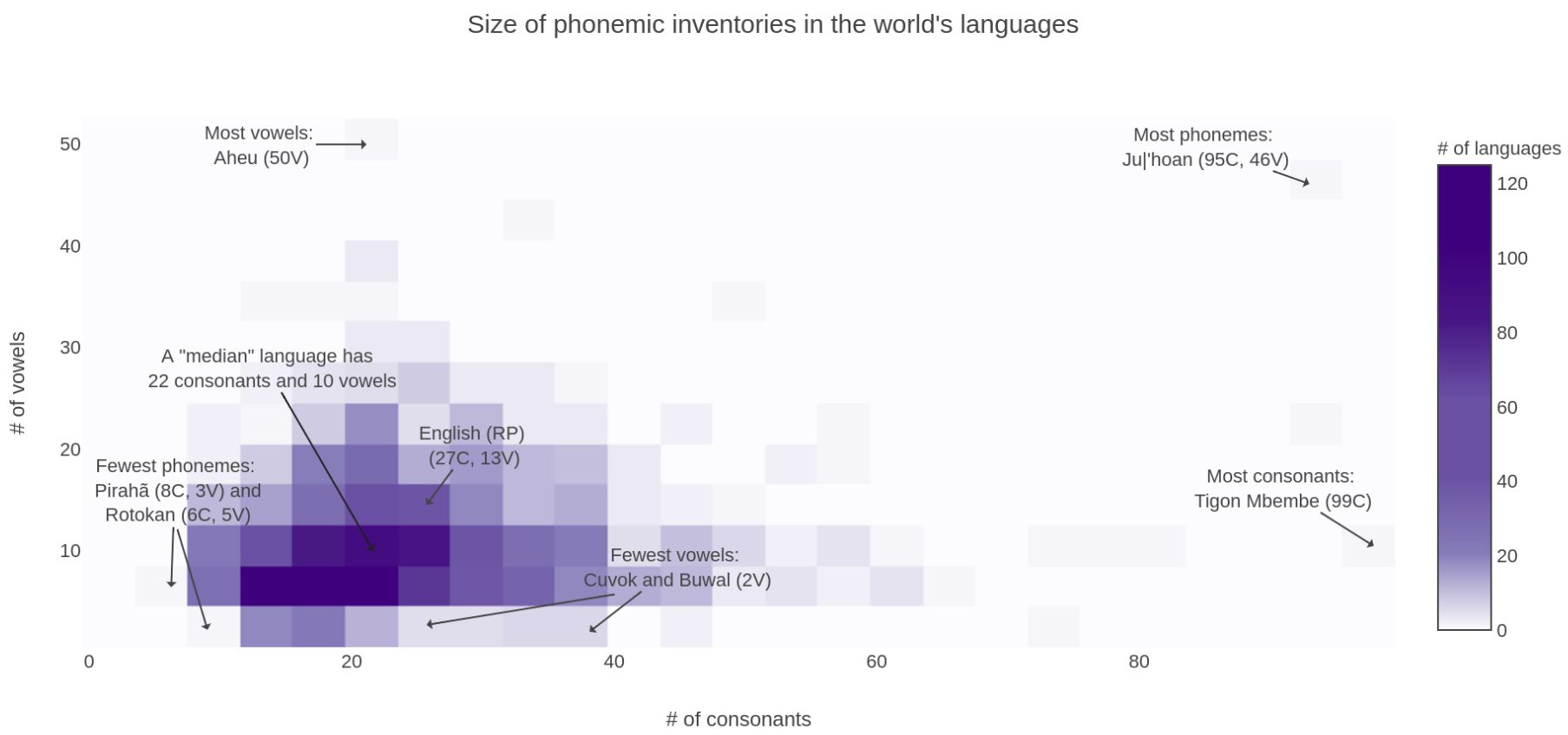
DirectPoll

http://etc.ch/Ut2T

GOOD or EVIL?

EXIBIT A

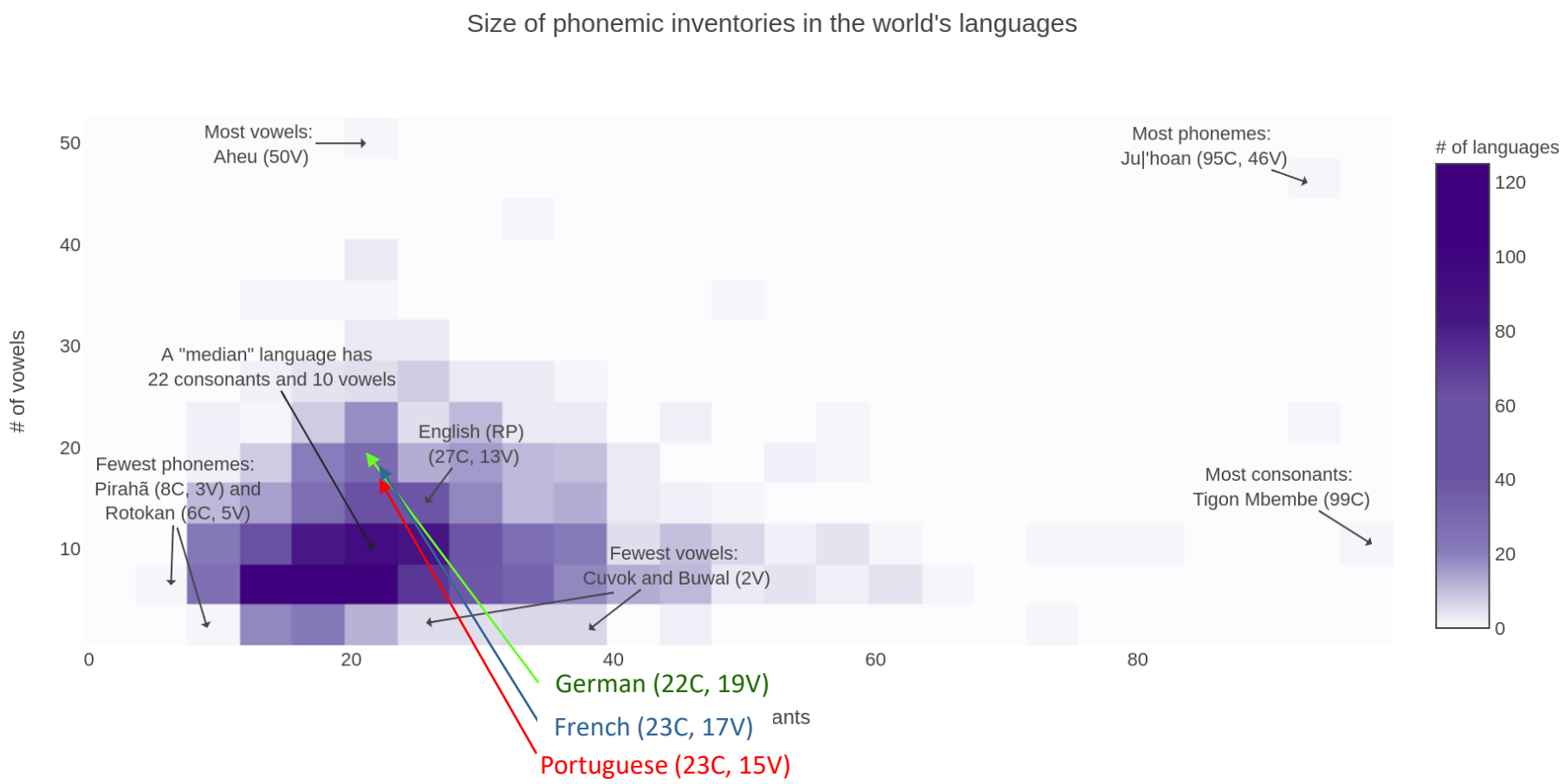
https://www.reddit.com/r/dataisbeautiful/comments/9ij9nq/oc_phonemic_inventory_of_the_worlds_languages



(dataset from https://phoible.org/)

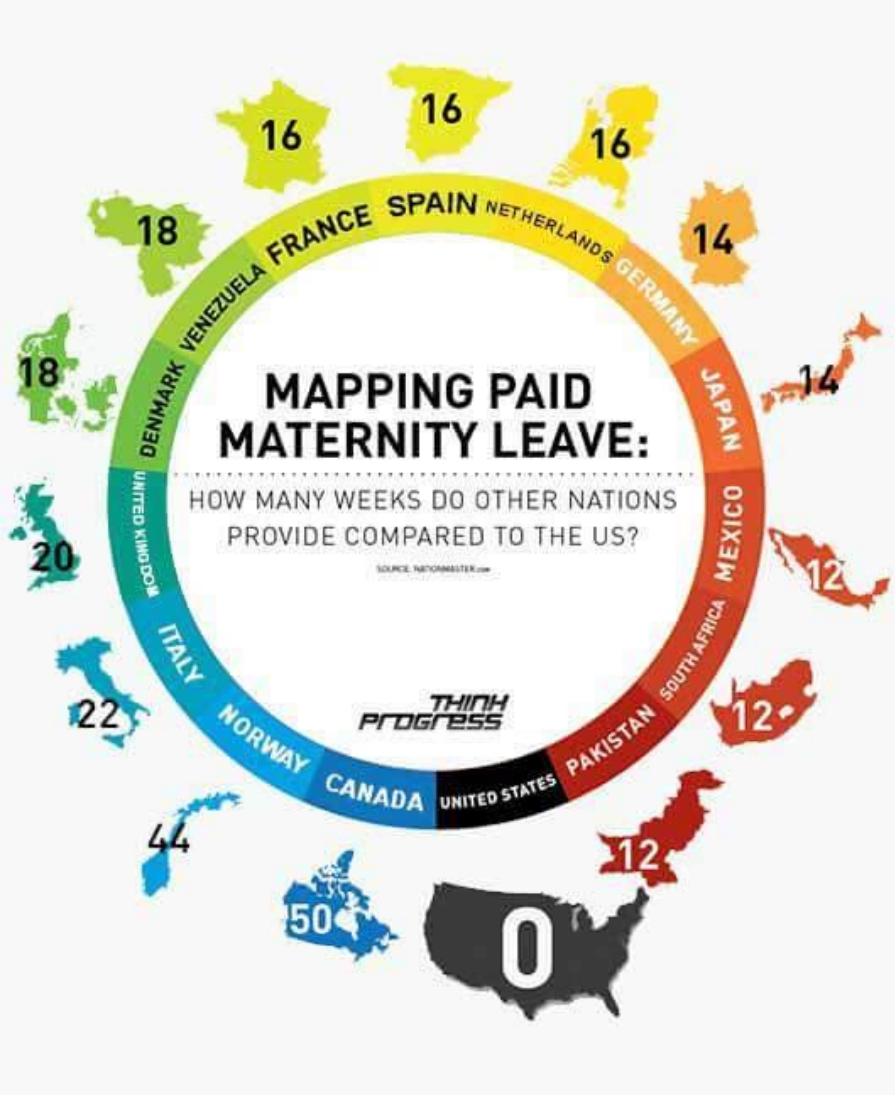
EXIBIT A

https://www.reddit.com/r/dataisbeautiful/comments/9ij9nq/oc_phonemic_inventory_of_the_worlds_languages



(dataset from https://phoible.org/)

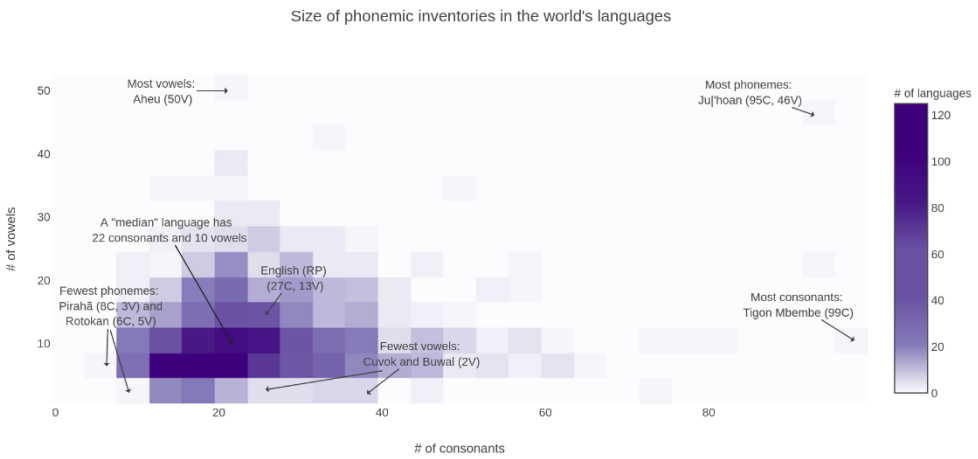
EXIBIT B


MAPPING PAID MATERNITY LEAVE:
HOW MANY WEEKS DO OTHER NATIONS PROVIDE COMPARED TO THE US?
THINK PROGRESS
FRANCE 16
SPAIN 16
NETHERLANDS 16
GERMANY 14
JAPAN 14
MEXICO 12
SOUTH AFRICA 12
PAKISTAN 12
UNITED STATES 0
CANADA 50
NORWAY 44
ITALY 22
UNITED KINGDOM 20
DENMARK 18
VENEZUELA 18

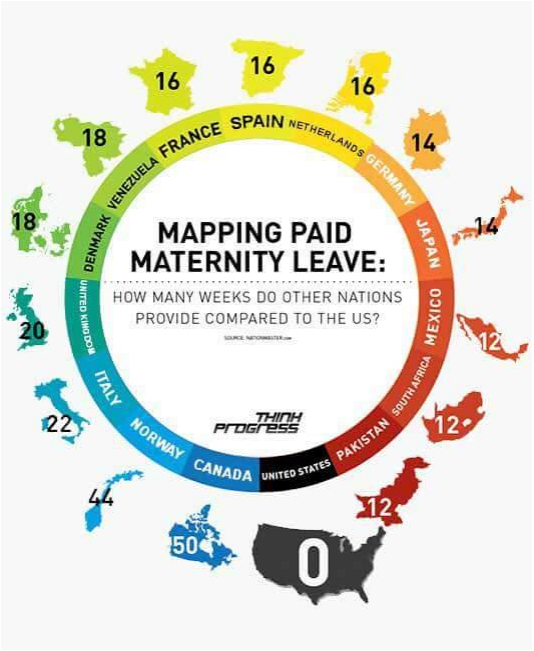
All Together Now!

http://www.prooffreader.com/2014/07/comparison-of-letter-positions-in-eight.html

A



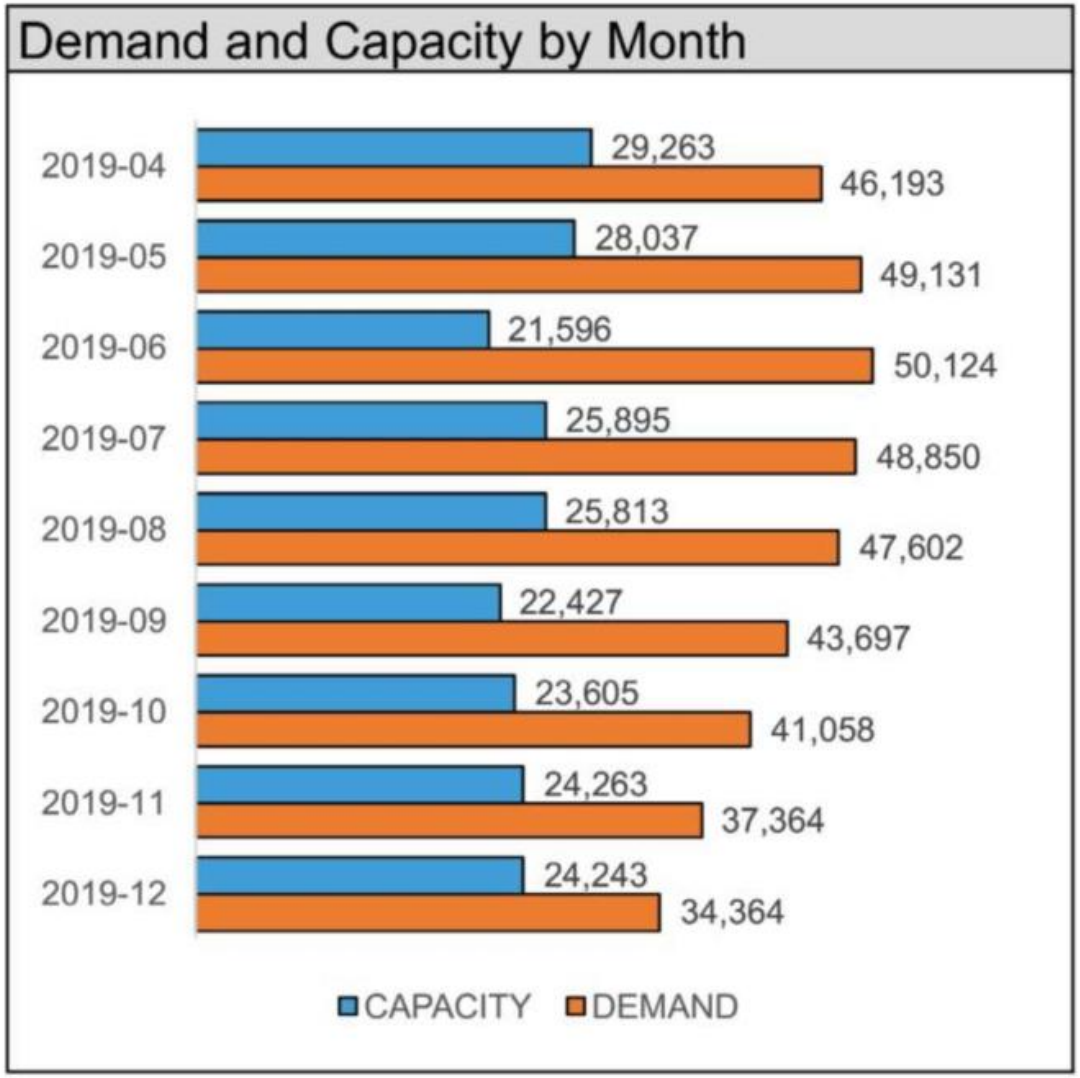
B



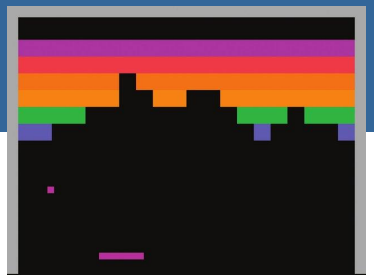
Direct Poll

Breakout!

Take a look at this visualization



Time to Break Out



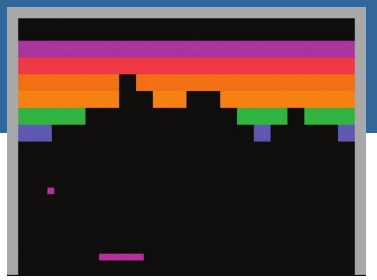
Discuss among yourselves

Sketch all possible ways to visualize this dataset you can think of (at least 4!)

https://bit.ly/3Bav7kc

Groups reporting in 15min

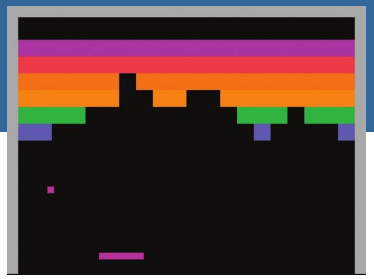
Questions we could answer…

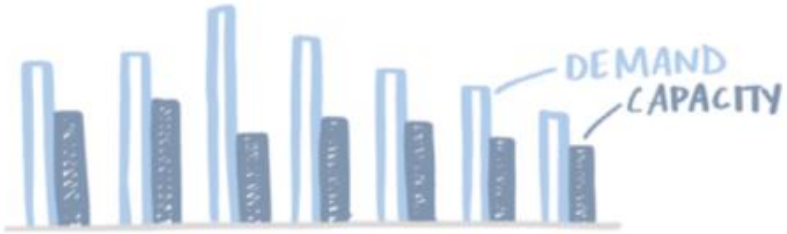


15:00

https://bit.ly/3Bav7kc

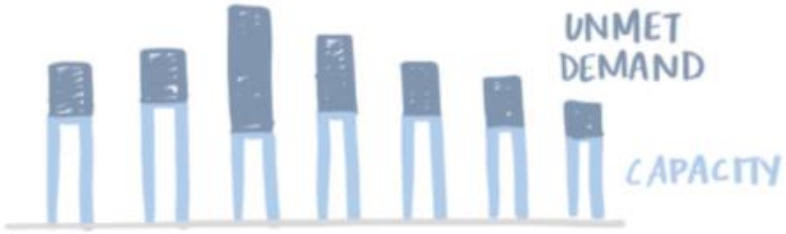
Here's six!




DEMAND
CAPACITY

DEMAND
CAPACITY

DEMAND
CAPACITY


UNMET
DEMAND
CAPACITY

DEMAND
CAPACITY

UNMET
DEMAND

Breakout Over!

QUESTIONS?