ME Ms

### Pssst, sometimes data has a story to tell

2.01

Detecting BS

Sick

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### When my internet

### went down,

I read

book.

"This book will make you smarter, faster. Please read it before making decisions or forming opinions of any kind." -SETH GODIN, author of Linchpin

# EVERYDATA

THE MISINFORMATION HIDDEN IN THE LITTLE DATA YOU CONSUME EVERY DAY

JOHN H. JOHNSON, PhD, AND MIKE GLUCK

A fascinating book - chockfull of eye-opening anecdotes, thus making the book accessible to non-data scientists.

Topics covered include polling, sampling, averaging, correlation versus causation, data visualization, confidence interval, cherry picking and forecasting.

Now, DON'T go to SLEEP. As I said, the authors spice things up with some good stories to illustrate ways you can be fooled. Like the story about the *Challenger* explosion and the erroneous selection of data.

Detecting

### Even the

## FOOTNOTES

Detecting BS

### have gems.



## BUT... I was SURPRISED the authors

didn't catch



The topic was data visualization and the story was exercise and mortality risk.

### Here's a screenshot of data:

ON I O NO

Hours of Exercise per Week	<b>Reduction in Mortality Risk</b>
0	0 percent
0–7.5	20 percent
7.5–15	31 percent
15-22.5	37 percent
22.5-40	39 percent
40–75	39 percent
>75	31 percent

## HttpReque

John H. Johnson, PhD and Mike Gluck (2016) EVERYDATA: the misinformation hidden in little data you consume, Bibliomotion, p.87.

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## Basically, the MORE you exercise, the LOWER your mortality risk.



		1001.11 112.14 1011.08 76 0.76 1051.12 102 1	
RIBCS I	7.5-15	31 percent 37 percent	
	22.5–40 40–75	39 percent 39 percent	xx/db/xx
	>75	31 percent	

Exercise 40 to 75 hours a week or even **MOR**? That's like a whole week of work... or doubled!



### Maybe it's

### doing HOUSEWORK,

## or OLYMPICS.

Wednesday2092 2.09 2051.98 2001.93

### Looking at the footnotes, I get:

98 1 2812 MA

XXXXX

Detecting B

 Hannah Arem, Steven C. Moore, Alpa Patel, Patricia Hartge, Amy Berrington de Gonzalez, Kala Visvanathan, Peter T. Campbell, Michal Freedman, Elisabete Welderpass, Hans Olov Adami, Martha S. Linet, L-Min Lee, and Charles E. Mathews, "Leisure Time Physical Activity and Mortality," JAMA Internal Medicine, published online April 6, 2015, doi:10.1001/ jamainternmed.2015.0533.

### Leisure!?! 75 hours of exercise?

#### The of the collapser CAN U.U.A. Store 10/10/10

John H. Johnson, PhD and Mike Gluck (2016) EVERYDATA: the misinformation hidden in little data you consume, Bibliomotion, p.179.

2001 93

### Note that the table didn't say how

### many people exercised at each level.

### It could be 1 person at 75 hours.

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Recently, I've gone to the original source - the research paper and dug into the discussion.

And I eventually discovered those hours are most likely





Or metabolic equivalent task hours which are greater than regular hours.

Detecting

After delving deep in the research, I estimated 75 MET hours as *maybe* being roughly 12.5 to 25 hours per week.

### A more reasonable figure.

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76 0.76

# Well, that turned out to be a **perfect** example of evaluating information closely.



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## EVERYDATA

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THE MISINFORMATION HIDDEN IN THE LITTLE DATA YOU CONSUME EVERY DAY

JOHN H. JOHNSON, PhD, AND MIKE GLUCK

## To Wrap up,

If your internet goes down, you can do some upskilling by reading books such as this.

Veronique Frizzel

INTERES

By the way, at the end of each chapter, there is a list of suggestions on how to assess the data or information you are being given. You come away with something useful.

76 0.76





If you want the link to the research, just comment or message me.

Otherwise, you can connect with me on LinkedIn by clicking on the More button at

https://www.linkedin.com/in/ veroniquefrizzell/

