Development of an application to find bias efficiently

Group 8

Keyword

Bias


35 kinds of jam
BERRY MIX JAM
ベリーミックスジャム
四季の香り
白桃
四季の香り
アップルシナモン
HANDMADE
富良野ジャム
キャロット
きいちご ジャム
フォレストファームの
アロニア
すぐり
ブルーベリー
琉球本場
黒糖黒ごまジャム
琉球本場
黒糖白ごまジャム
琉球本場
さとうきびの蜜
秋限定ジャム
アップル
ラムレーズン
St.Cousair
無添加ジャム
Milk Jam
ミルクジャム
Sakuramomo Ichigo jam
さくらもも いちごジャム

7 kinds of jam

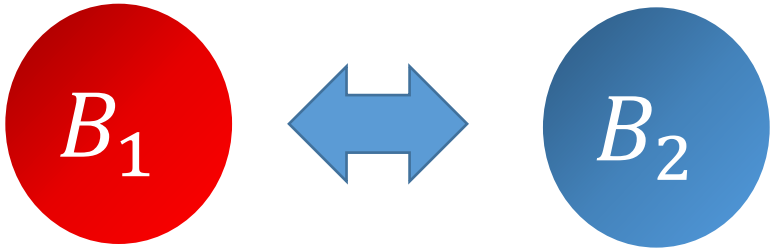
35 kinds of jam

7 kinds of jam

Purpose

We detect bias using questions now.

Sex



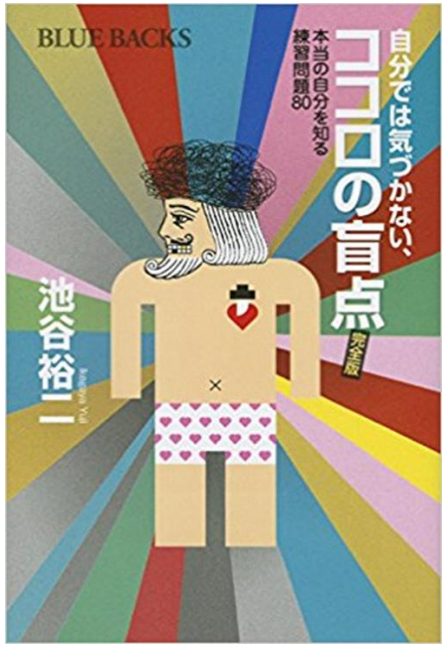
Bias relation

To detect bias efficiently

Preliminary Experiment | Purpose

- How many biases our school's students have

- Factors we should focus on (ex: sex)



80 biases

1. Decision-making bias
2. Memory bias
3. Probability bias
4. Social bias

Preliminary Experiment | Method

Method : Ask two questions from each category
Answer the eight questions on the web

Subject : Our high school's 1st grade students

Note : We refer to the answer choices which reveal some bias as "mistakes"

Preliminary Experiment | Result

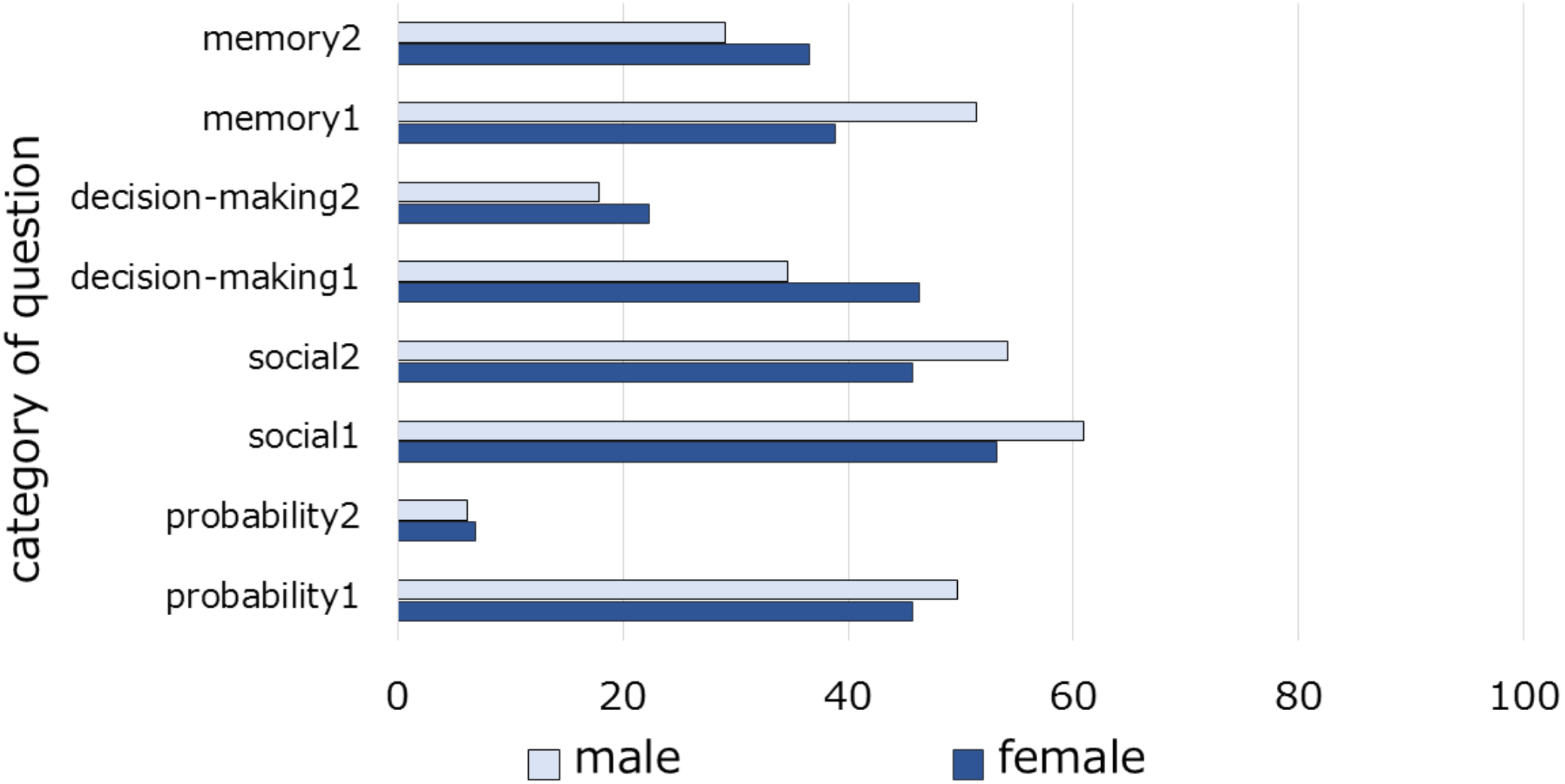


Fig.1 : Correct answer rate for each question(%)

Experiment 1 | Purpose&Method

Purpose : Check the category of bias(accuracy)
Look for correlation between biases

Method : Five questions from each category
giving 20 questions to 1st grade
students on the Web

Experiment 1 | Result

Table 1 correlation coefficient between two questions	
Number of data points	190
Max. positive correlation	0.300
Max. negative correlation	-0.180

Experiment 1 | Summary

Could not find a correlation between biases only from analyzing the questions.

We get rid of

- difficult questions(low percentage of “right” answer)
- biases unharmful to us

in experiment 2

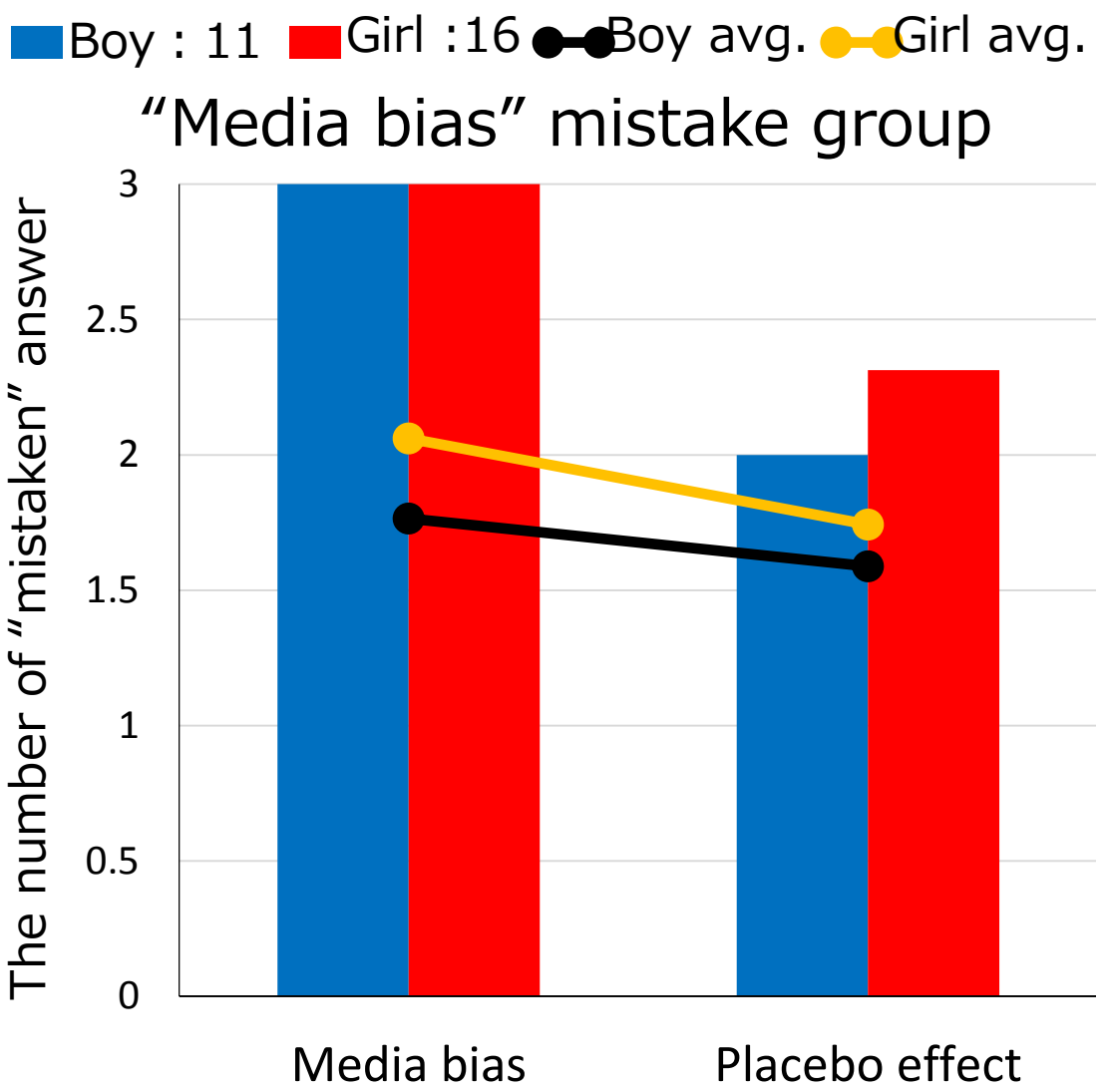
Experiment 2 | Purpose and method

Purpose : Classify people into groups
by their answer patterns

Method : Four biases from each category
Three similar questions

Subject : Our high school's 2nd grade students

Experiment 2 | Result



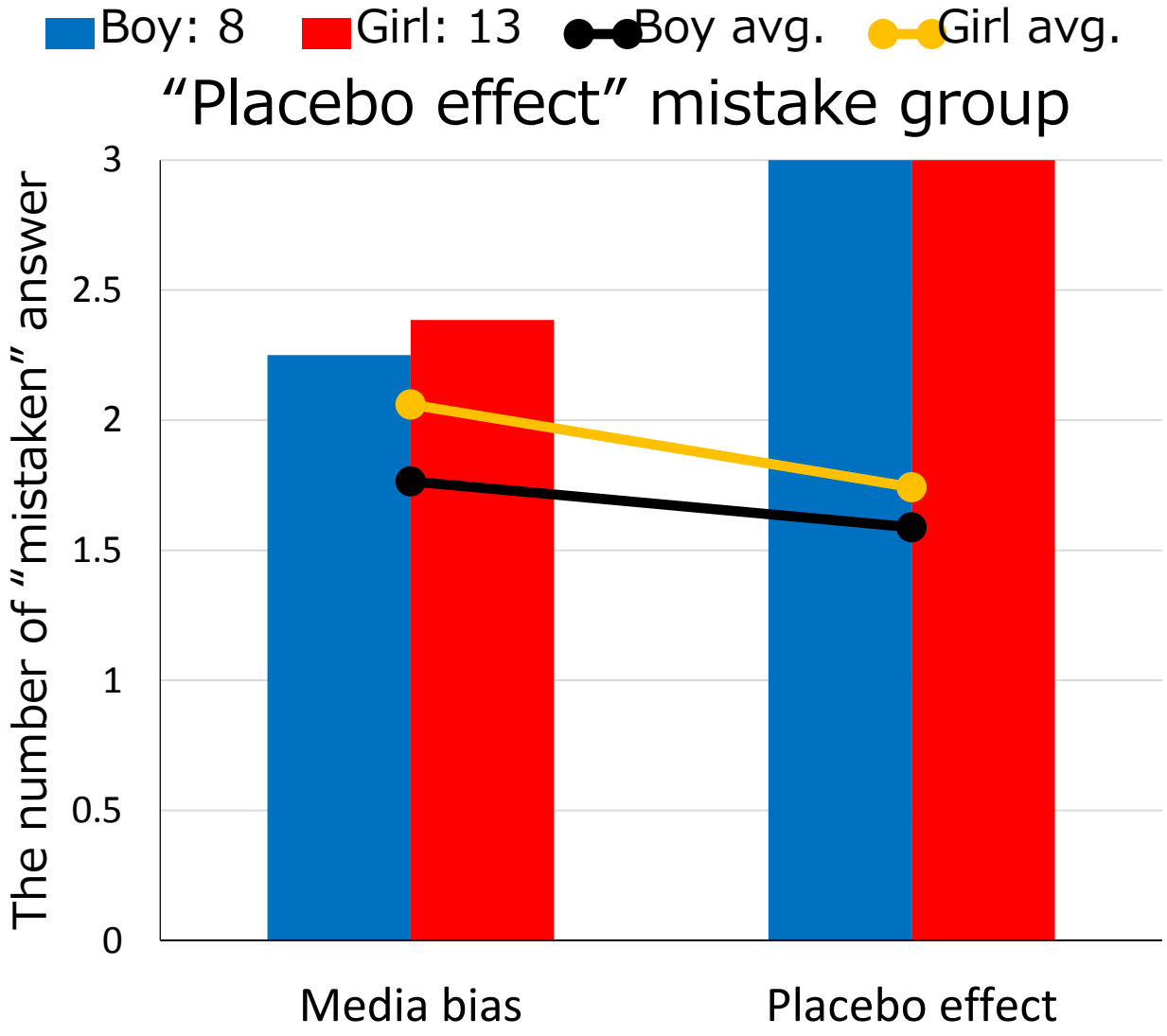


Fig.2 : The strongest correlation

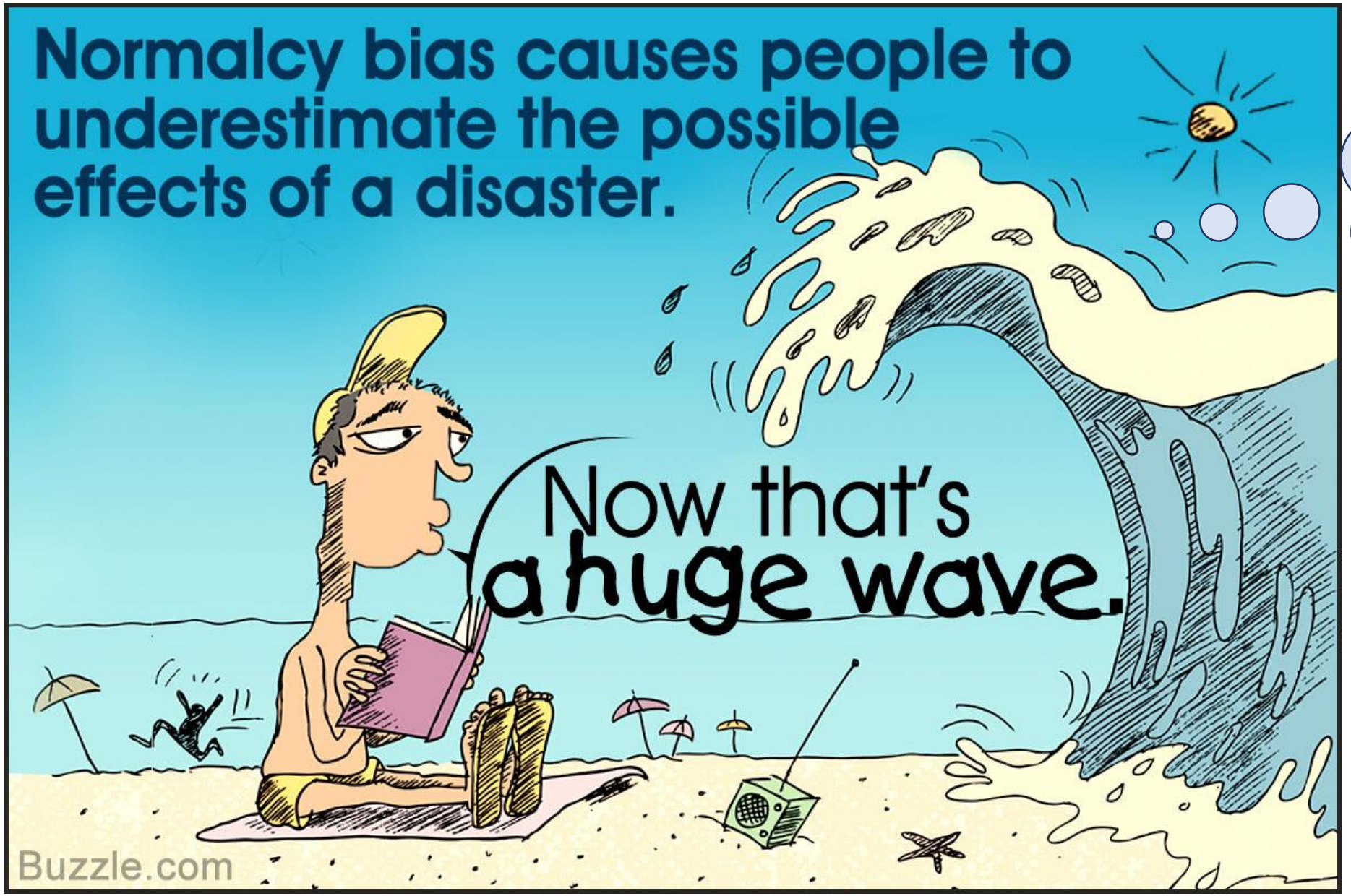
Experiment 2 | Summary

- Look for correlation between biases
- Classify people into groups

NO CORRELATION BETWEEN BIASES

But

Experiment 2 | Summary



I think that I will at least be all right.

Underestimate danger

Fail to escape

https://psychologenie.com/insight-into-concept-of-normalcy-bias-in-psychology

Experiment 2 | Summary

- Look for correlation between biases
- Classify people into groups

Found “a Bias” most of us have

Using this data

Reduce the number of questions to detect biases

Future plan

Application to detect biases efficiently

・Apply our data to this application

・Gather data from various age groups

References

(1)池谷 裕二(2016)『自分では気づかない、ココロの盲点完全版　―本当の自分を知る練習問題80―』(ブルーバックス)講談社 / Yuji ikegaya(2016)”The blind spot of mind which we can’t notice by ourselves.(perfect version) -Exercise80 to know real me.- (bluebacks) Kodunsha

(2)池谷裕二(2012)『脳には妙なクセがある』扶桑社　/　Yuji ikegaya(2012)”Our brain have strange habits.-massousya

Thank you for listening