

SARAS WINDECKER & ED IVIMEY-COOK

GUIDELINES FOR PEER CODE REVIEW

CODE OF CONDUCT

<https://www.sortee.org/codeofconduct/>

CODE OF CONDUCT

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SLACK

#PEER_CODE REVIEW CLUB

CODE OF CONDUCT

<https://www.sortee.org/codeofconduct/>

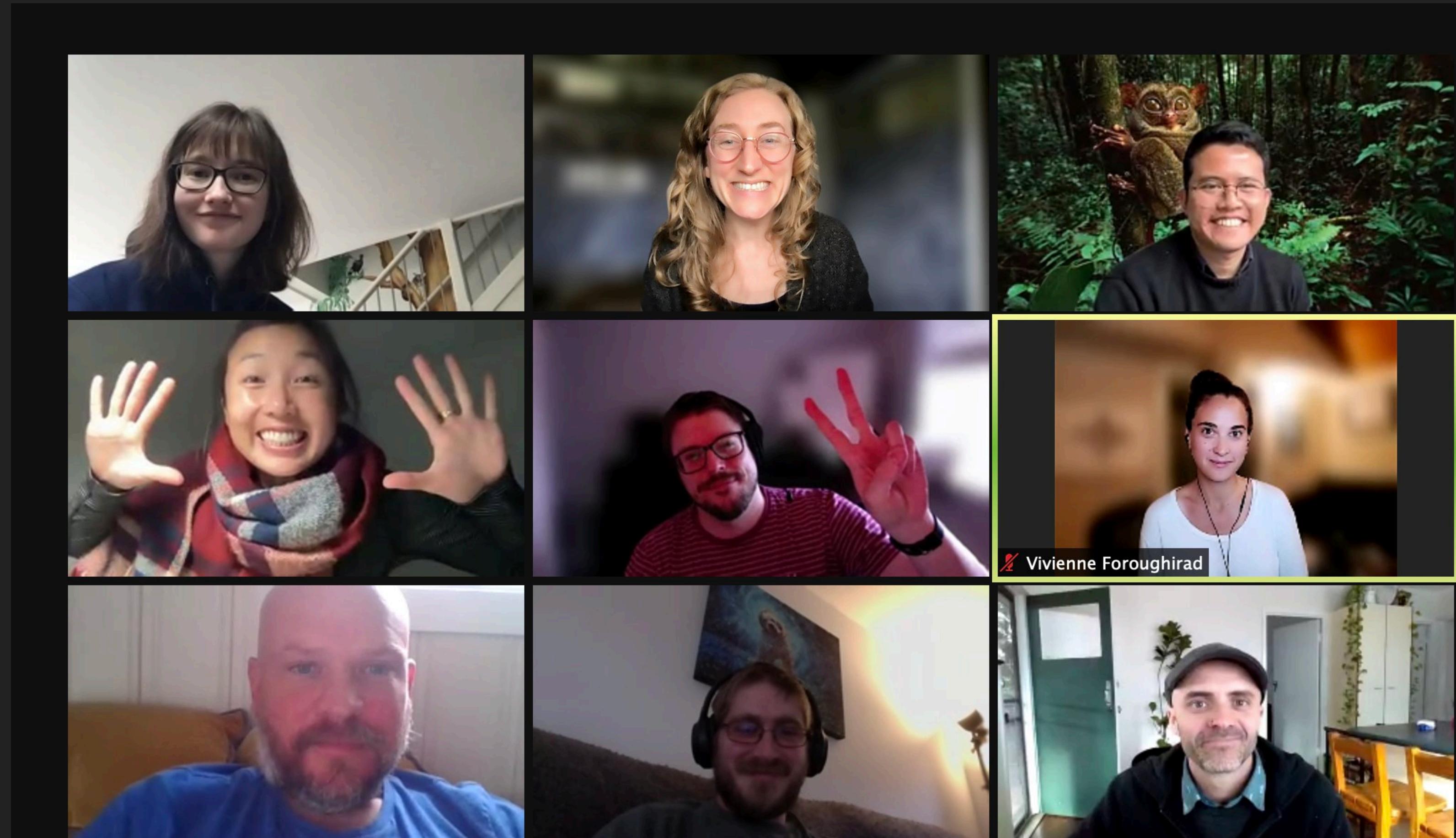
SLACK

#PEER_CODE REVIEW CLUB

GITHUB

<https://github.com/SORTEE/peer-code-review>

HACKATHON AND UNCONFERENCE 2021



Wai-Yin

 SORTEE / **peer-code-review-resources**

Public

 Unwatch ▾

9



 Code

 Issues 5

 Pull requests

 Discussions

 Actions

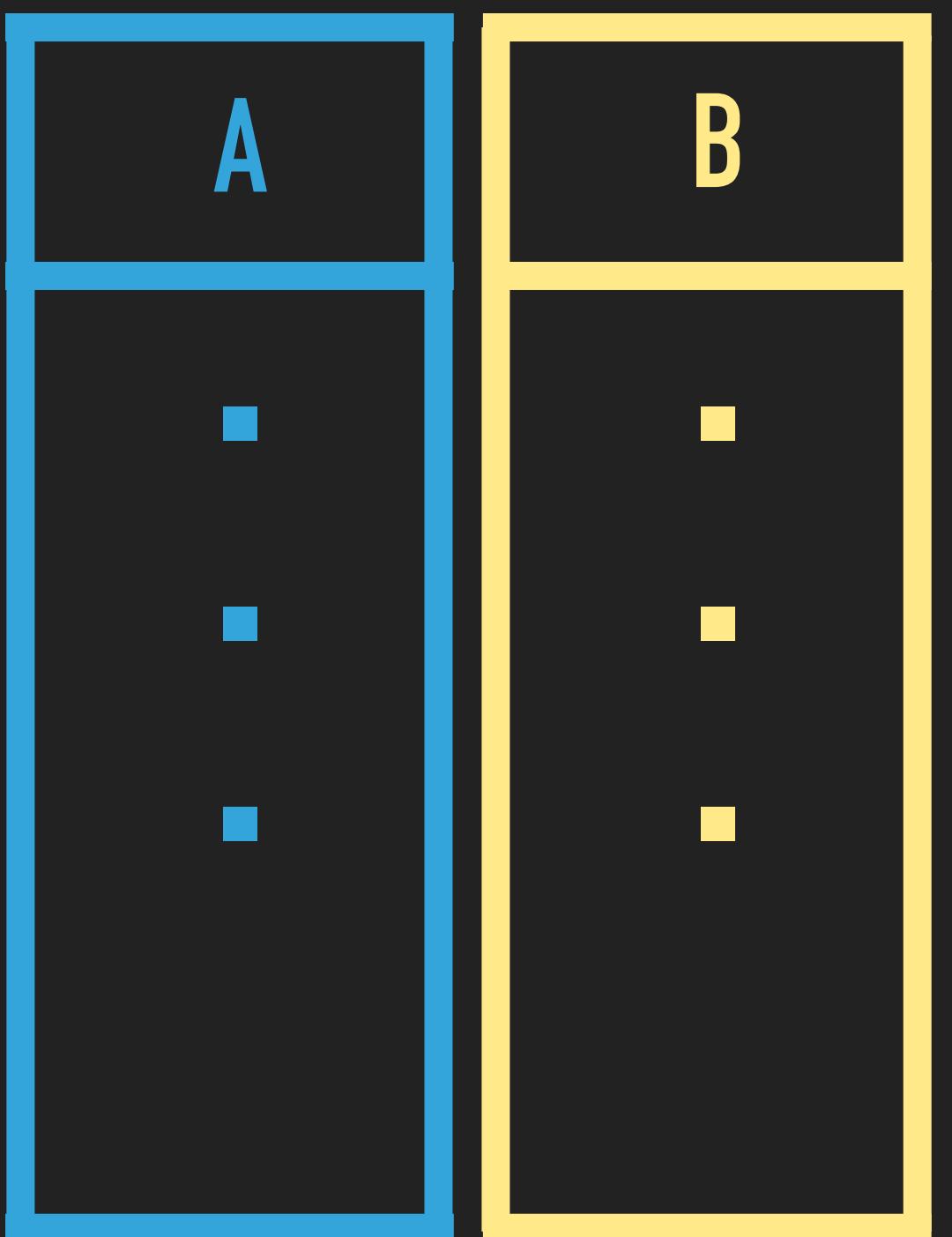
 Projects



CodeReviewRequest: November 3 2021 meeting #7

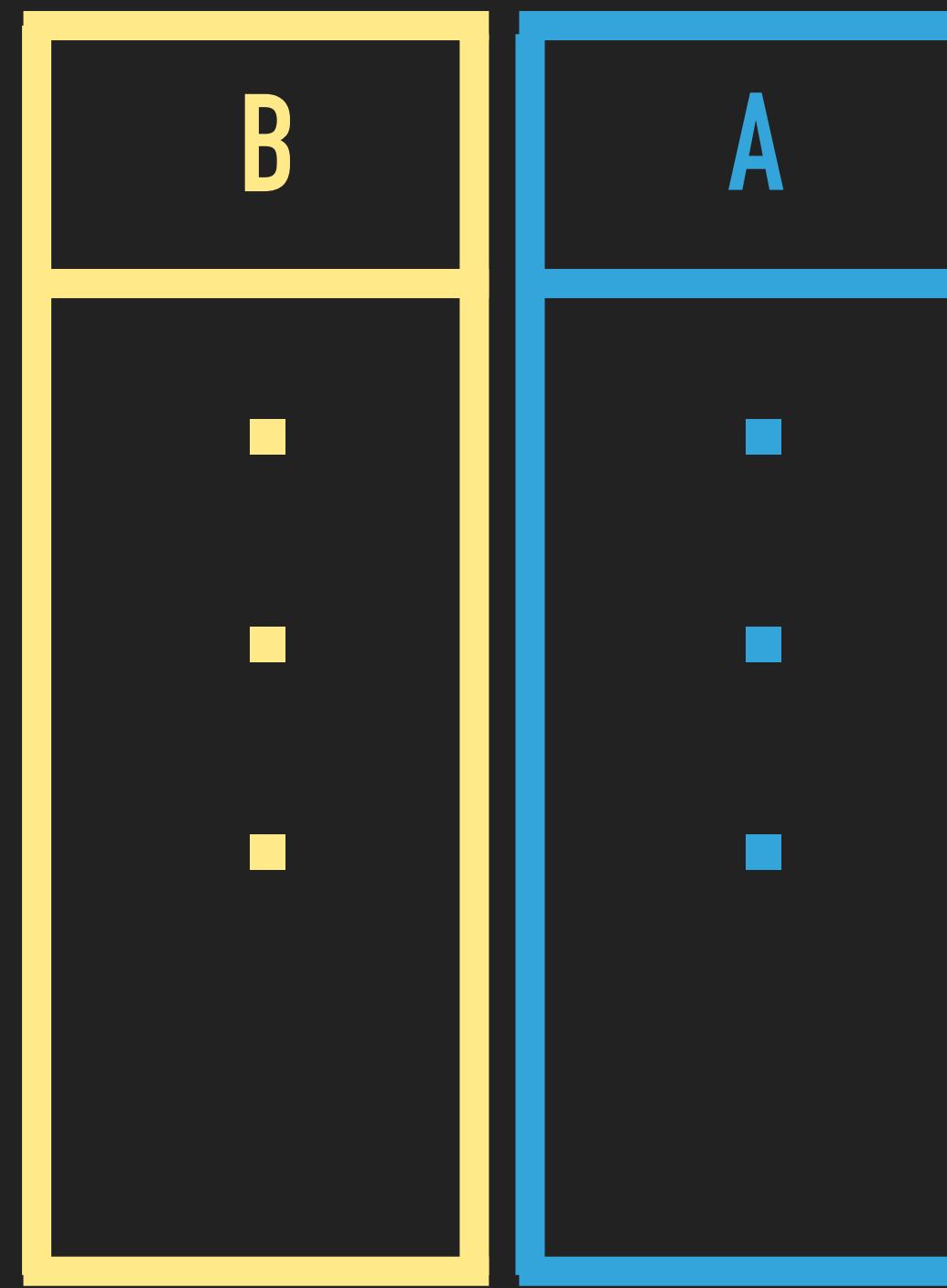
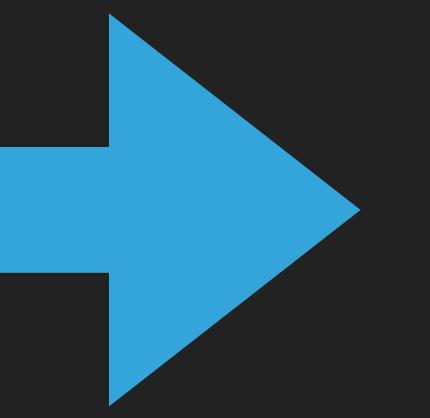
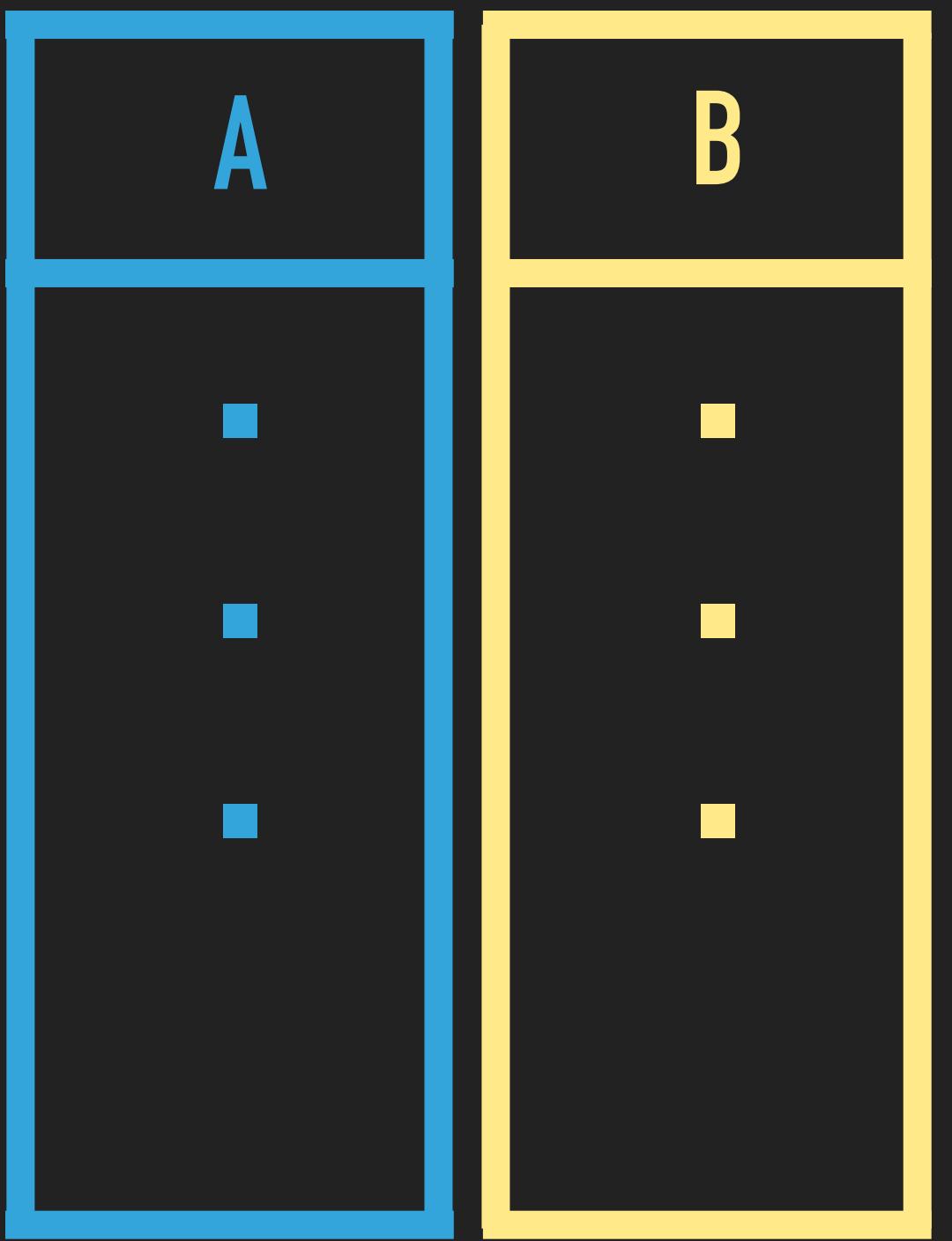
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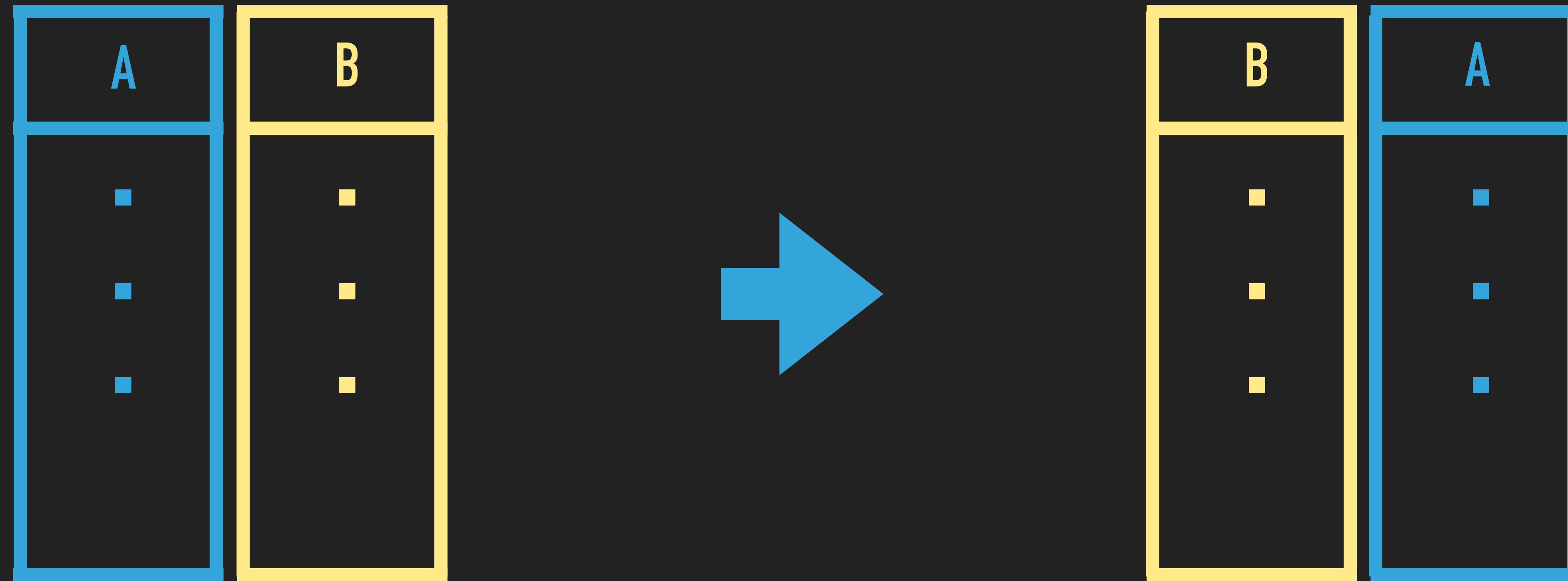
roseodea opened this issue 13 days ago · 1 comment



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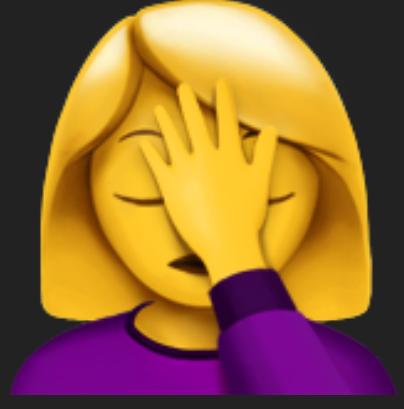




SCIENTIFIC PUBLISHING

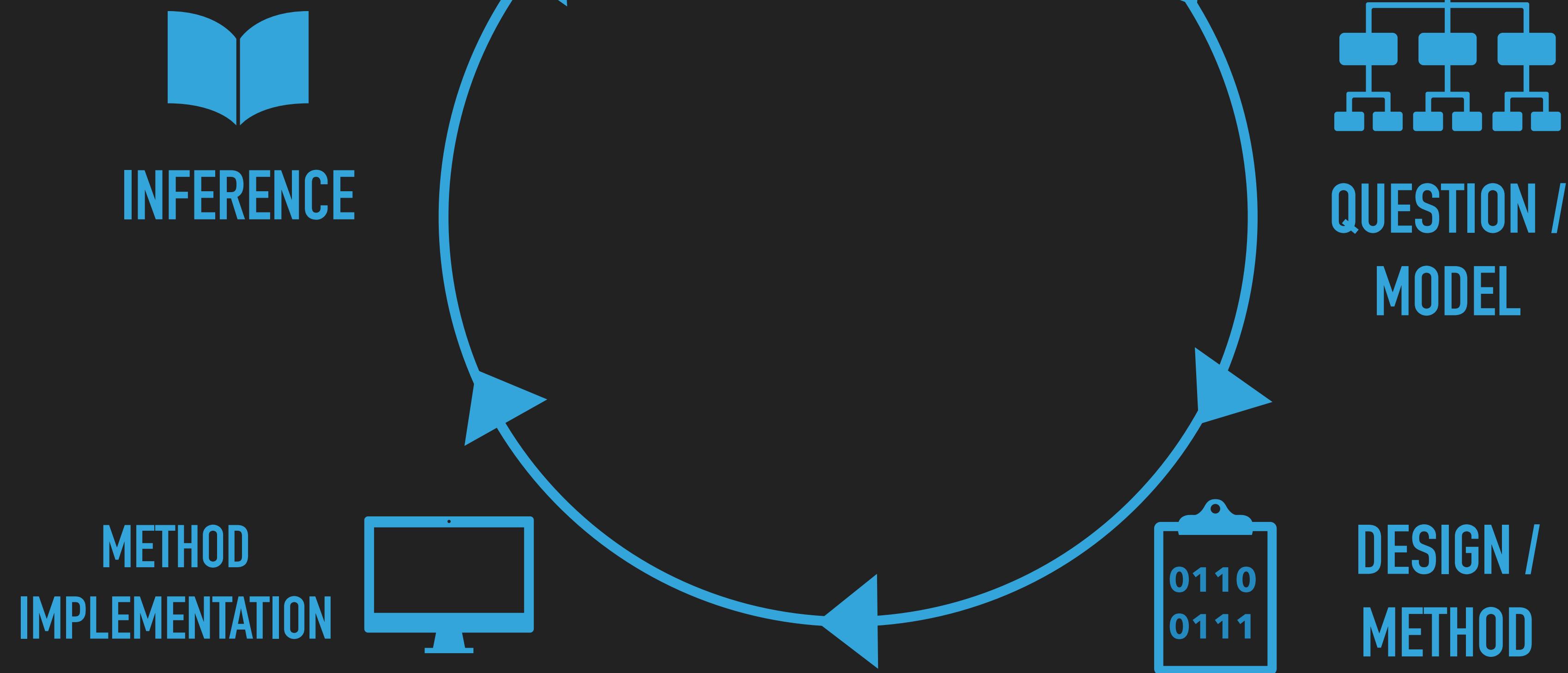
A Scientist's Nightmare: Software Problem Leads to Five Retractions

http://pds5.egloos.com/pds/200701/26/84/20061222_science.pdf





PROBLEM / THEORY

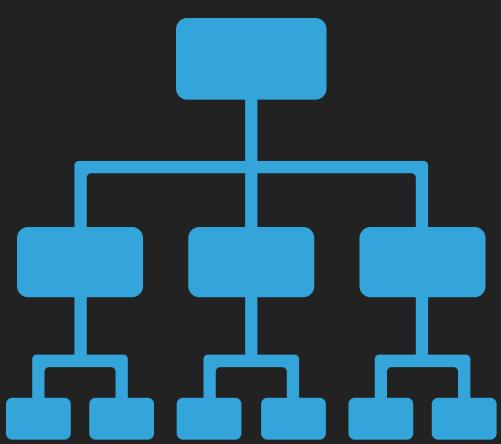




PROBLEM / THEORY



INFERENCE



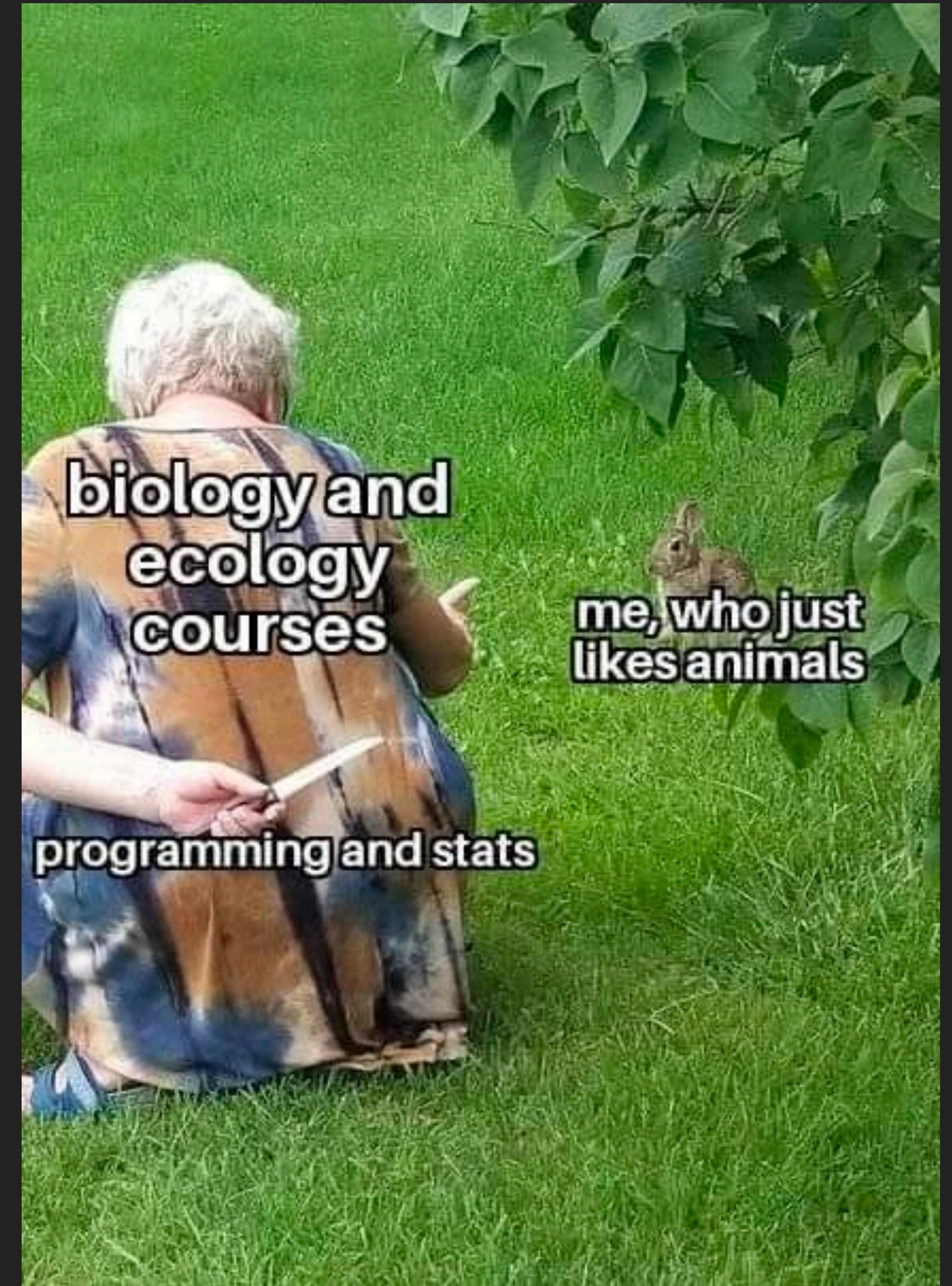
QUESTION /
MODEL



DESIGN /
METHOD

CODE





**biology and
ecology
courses**

programming and stats

**me, who just
likes animals**

SCIENTIFIC PUBLISHING

A Scientist's Nightmare: Software Problem Leads to Five Retractions

SCIENTIFIC PUBLISHING

A Scientist's Nightmare: Software Problem Leads to Five Retractions

The Credibility Crisis In Scientific Publishing

A Texas A&M public health researcher examines journal research quality assurance methods in the field of addiction.

By Rae Lynn Mitchell, Texas A&M University School of Public Health • JULY 29, 2019

SCIENTIFIC PUBLISHING

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WORLD VIEW | 24 May 2018

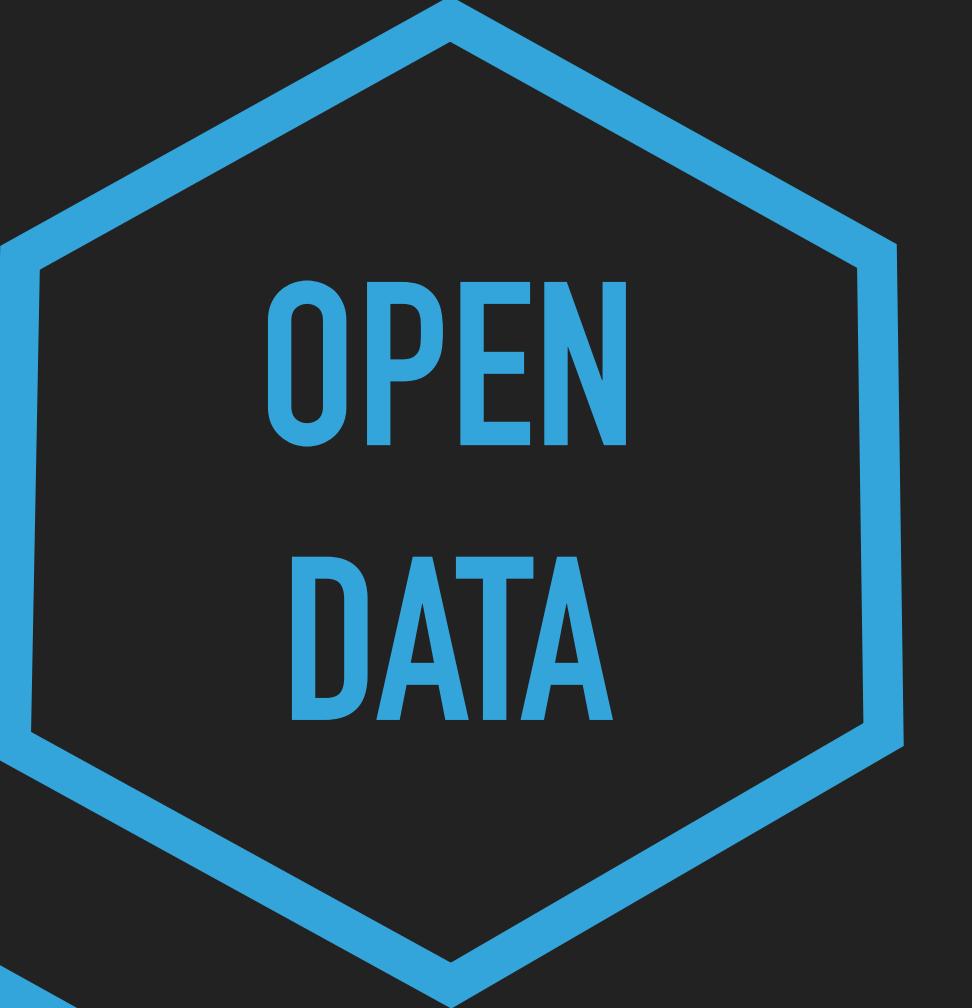
Before reproducibility must come preproducibility



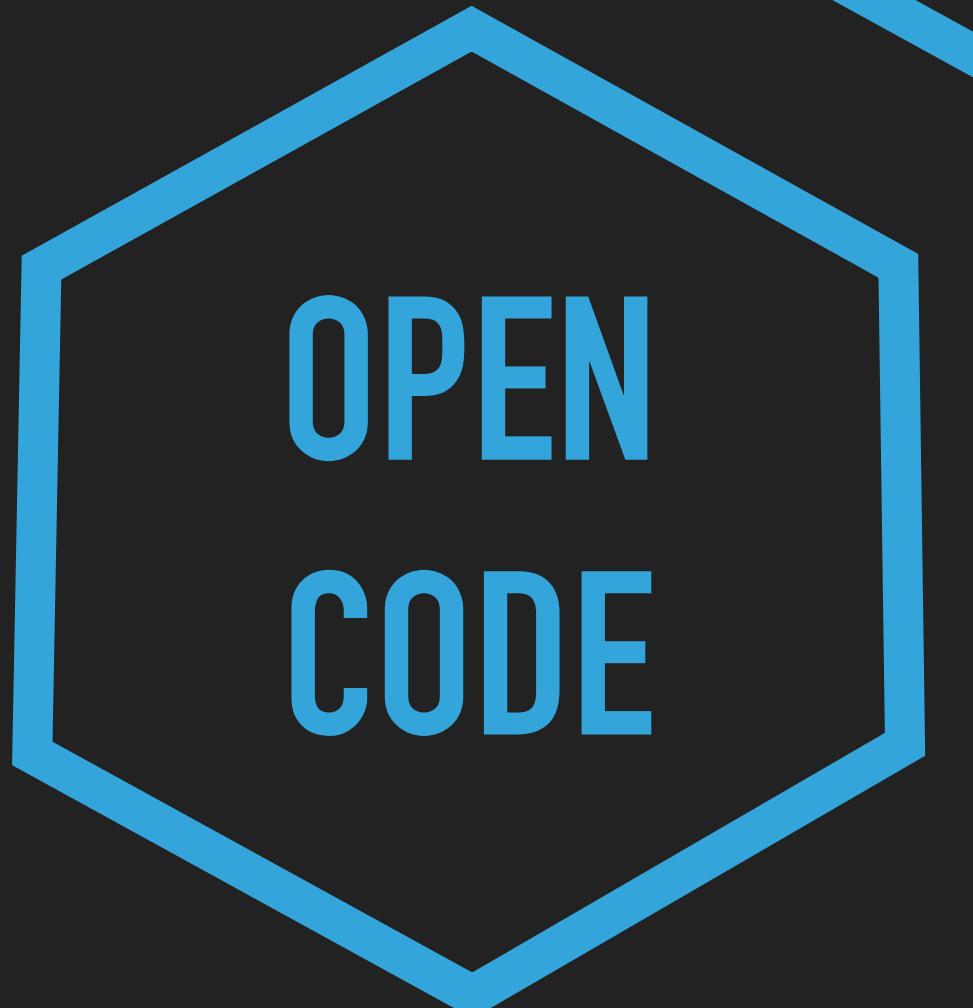
Instead of arguing about whether results hold up, let's push to provide enough information for others to repeat the experiments, says Philip Stark.

[Philip B. Stark](#)

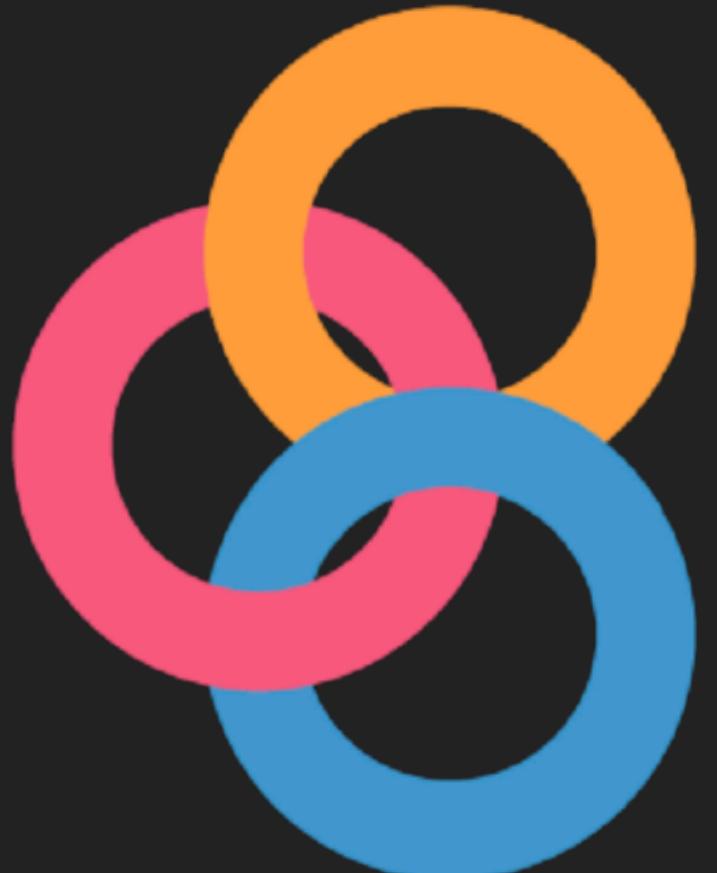




**OPEN
DATA**



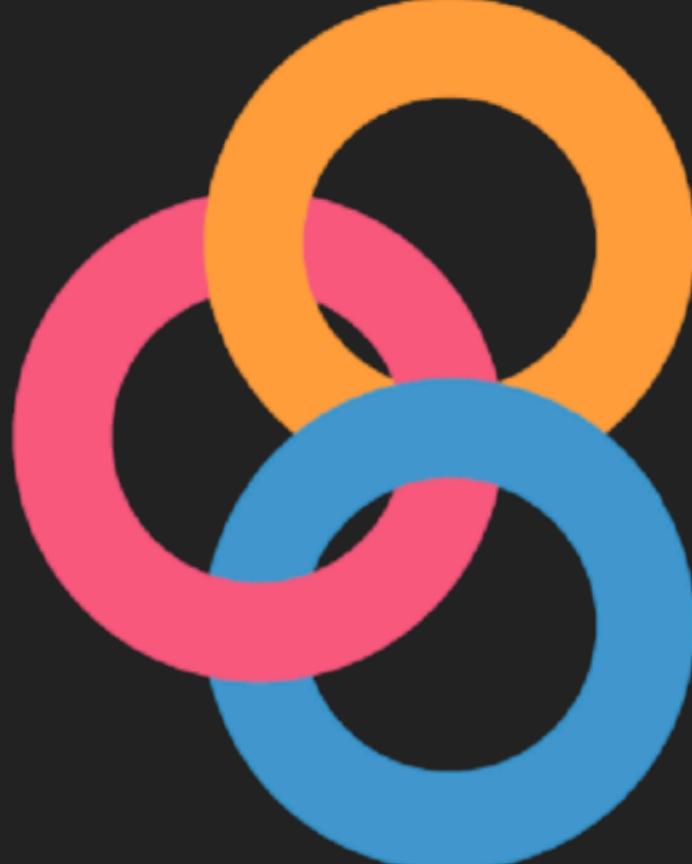
**OPEN
CODE**



OPEN
CODE

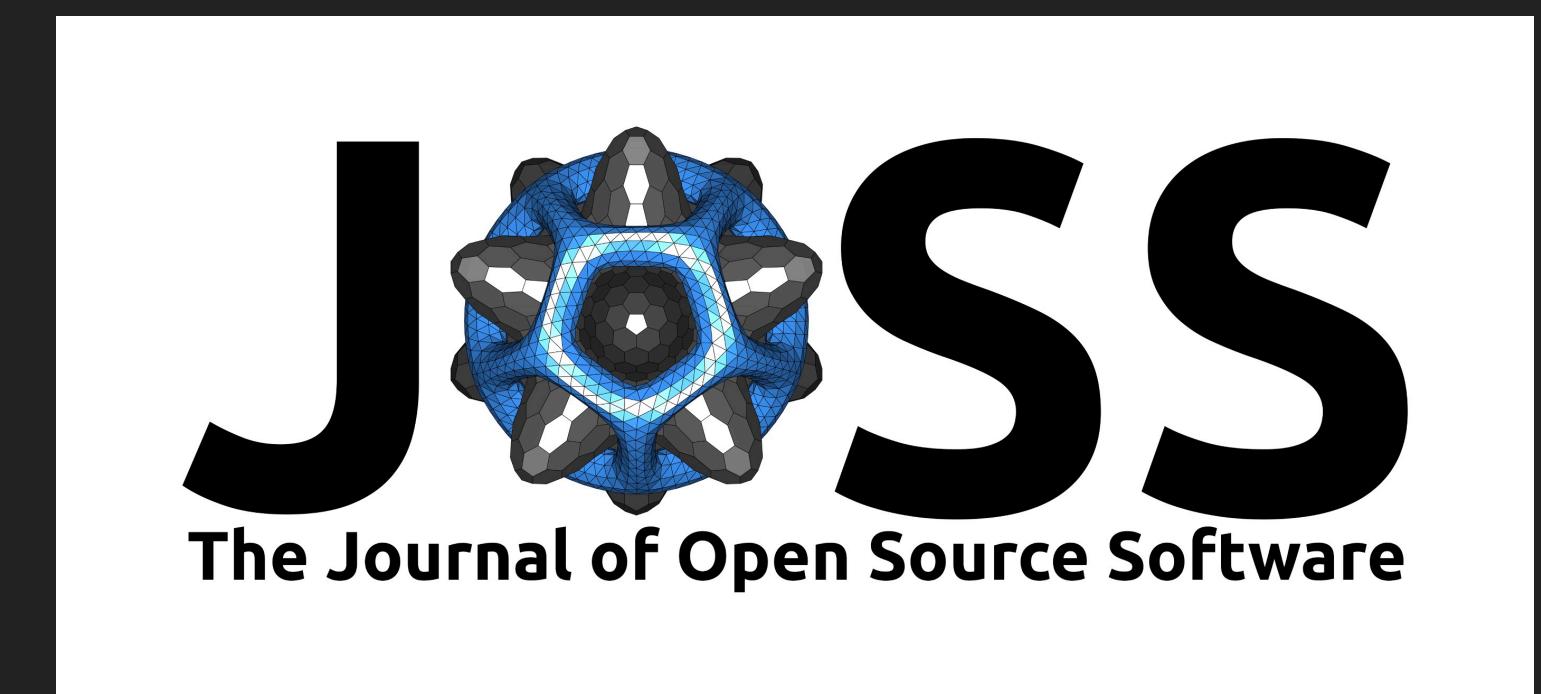
OPEN
DATA

OPEN
PEER
REVIEW



arXiv

zenodo



OPEN
CODE

OPEN
DATA

OPEN
PEER
REVIEW



arXiv

zenodo

JSS
The Journal of Open Source Software



GOAL == TRANSPARENCY



Ed Ivimey-Cook

@EdIvimeyCook

...

Interested to know whether people share research code (R/Python etc) when working on a project ?
#Rstats #R

Yes, from the start

29.5%

Yes, with publication

54.5%

Nope

6.8%

Show me?

9.1%

88 votes · Final results

11:09 AM · Jun 14, 2022 · Twitter Web App



PROBLEM / THEORY

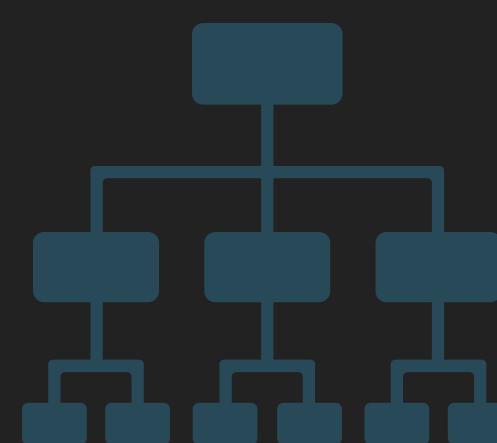
WHAT DOES PEER REVIEW CHECK?



INFERENCE



CODE



QUESTION /
MODEL



DESIGN /
METHOD



PROBLEM / THEORY

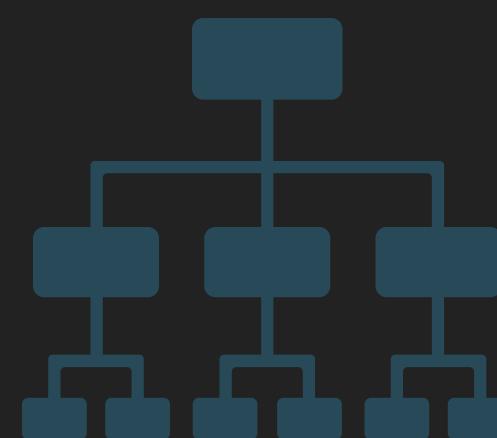
WHAT DOES PEER REVIEW CHECK?



INFERENCE



CODE



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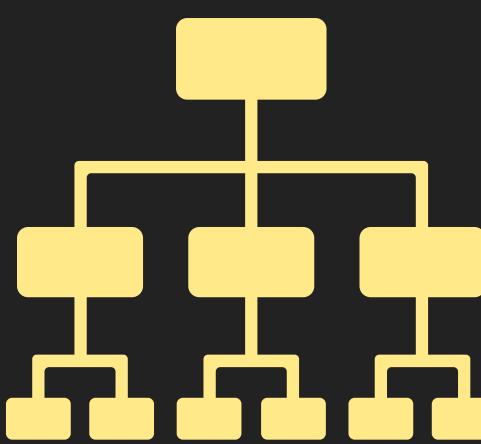


PROBLEM / THEORY



INFERENCE

WHAT DOES PEER REVIEW CHECK?



QUESTION /
MODEL



CODE



DESIGN /
METHOD

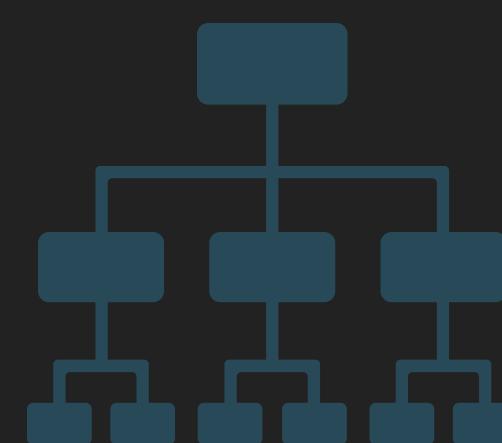


PROBLEM / THEORY



INFERENCE

WHAT DOES PEER REVIEW CHECK?



QUESTION /
MODEL



CODE

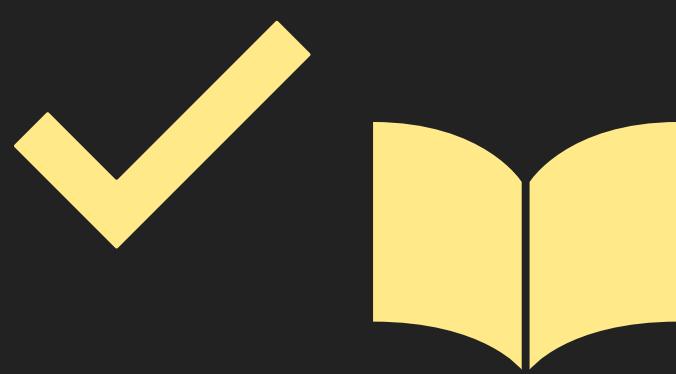


DESIGN /
METHOD





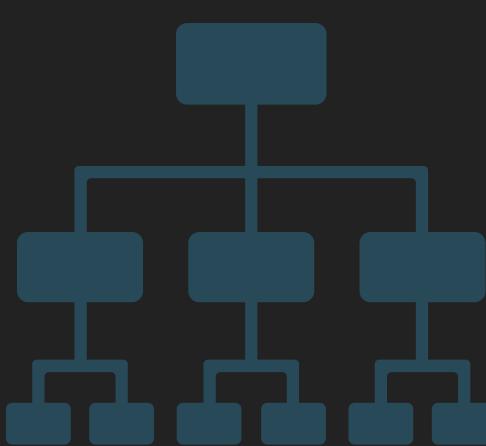
PROBLEM / THEORY



INFEERENCE



WHAT DOES PEER REVIEW CHECK?



QUESTION /
MODEL



CODE



DESIGN /
METHOD





PROBLEM / THEORY



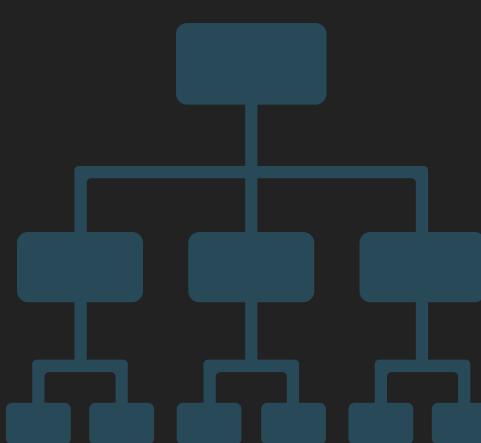
INFERENCE



CODE



WHAT DOES PEER REVIEW CHECK?



QUESTION /
MODEL

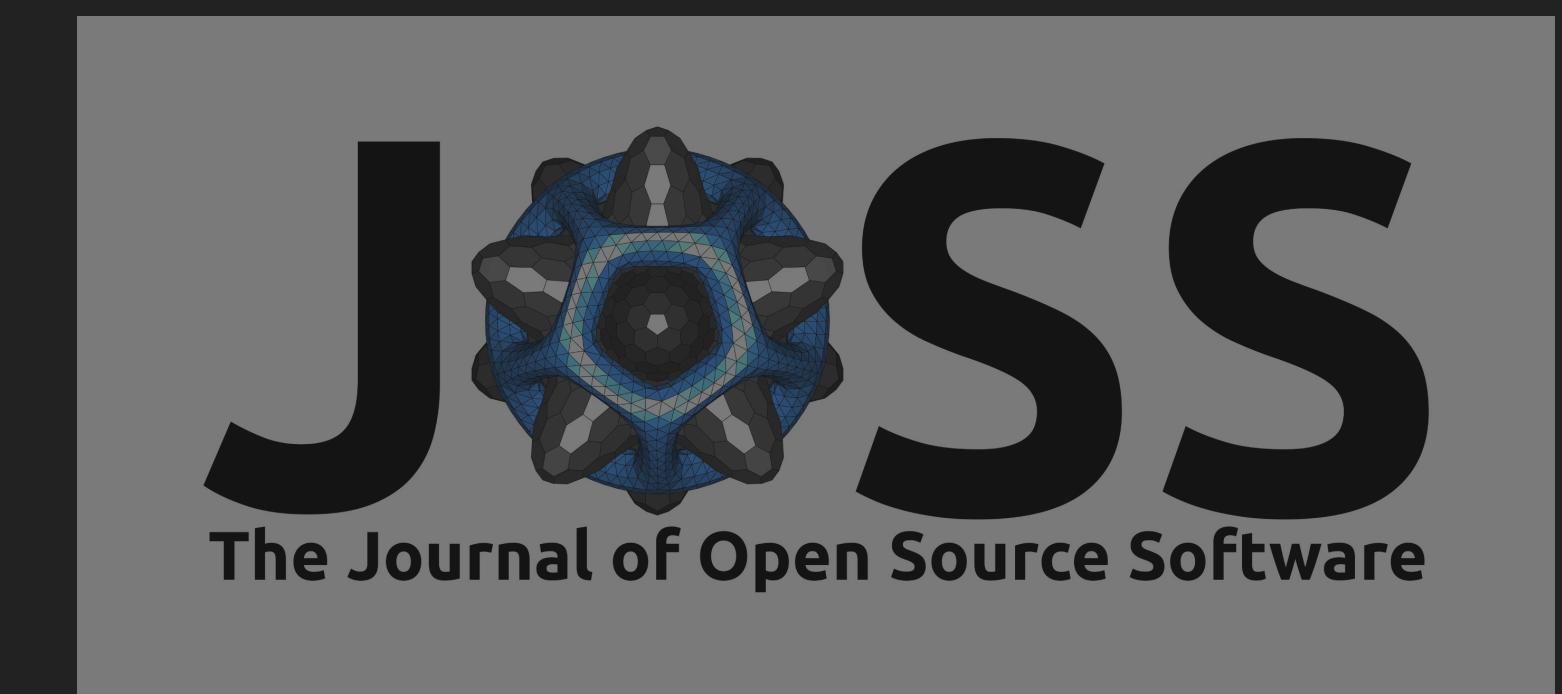
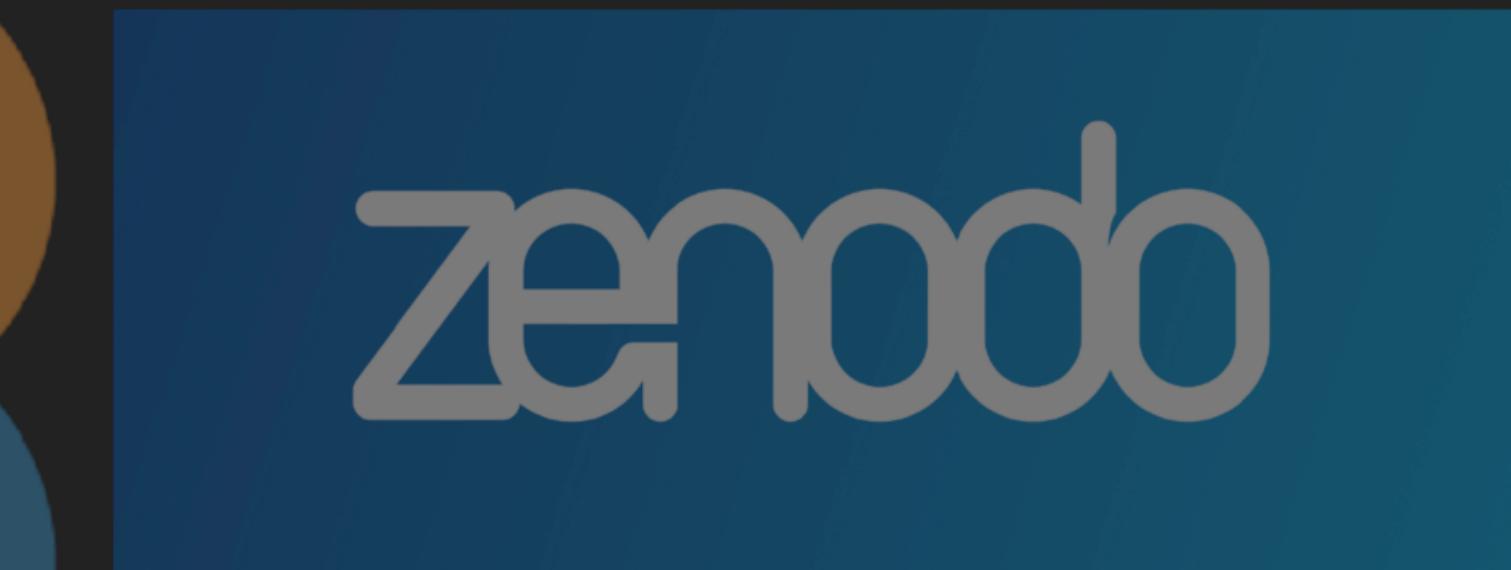
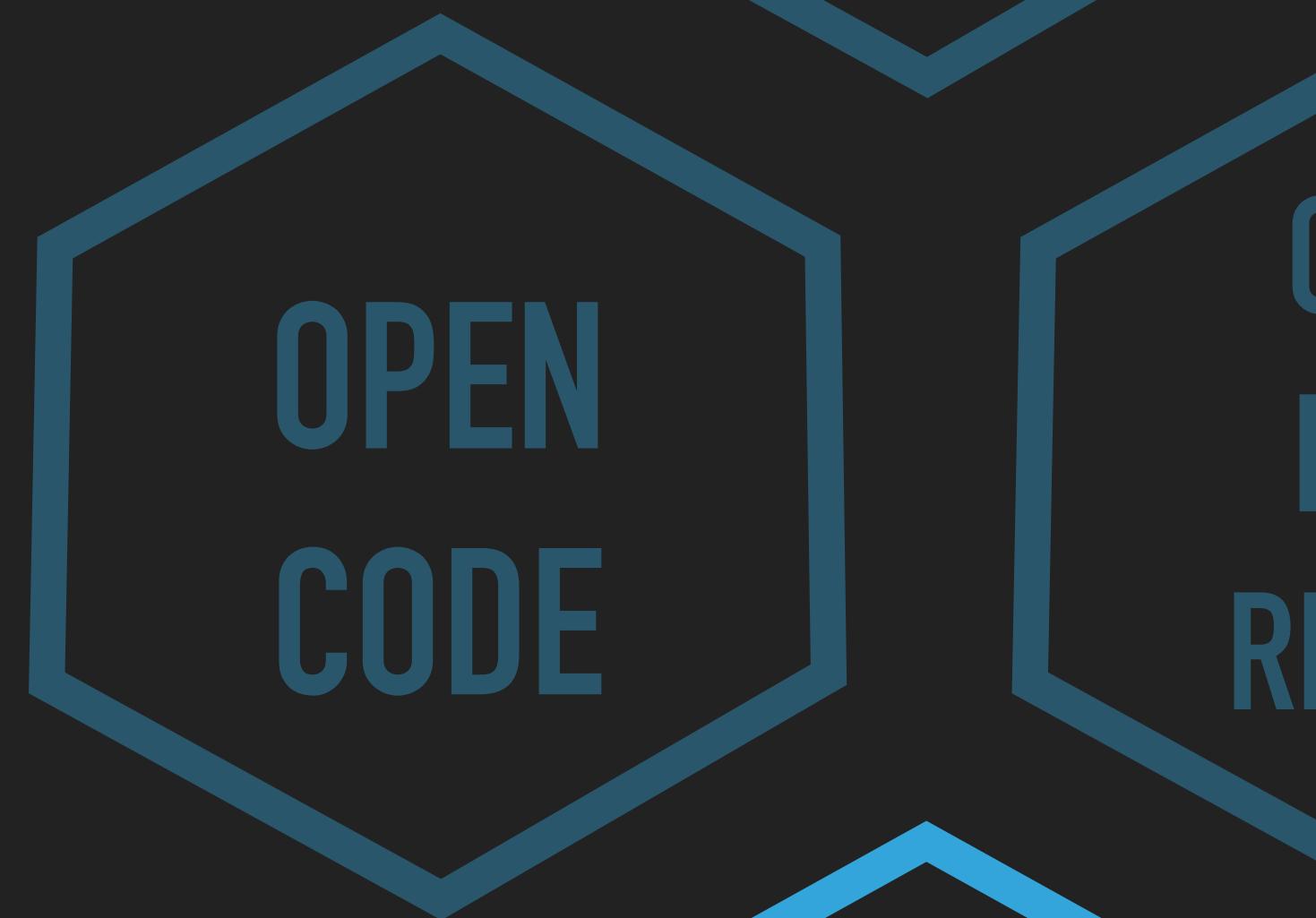
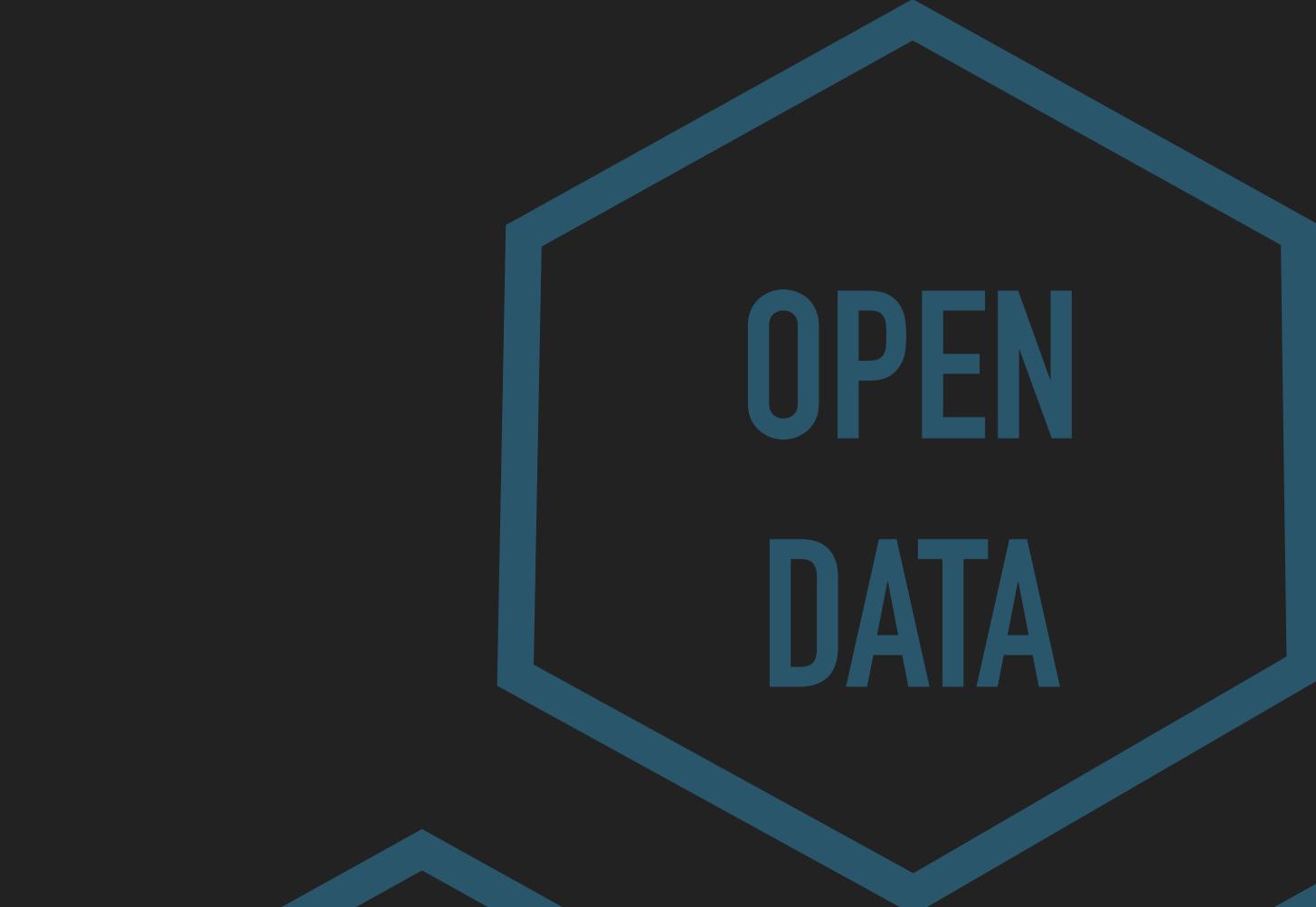


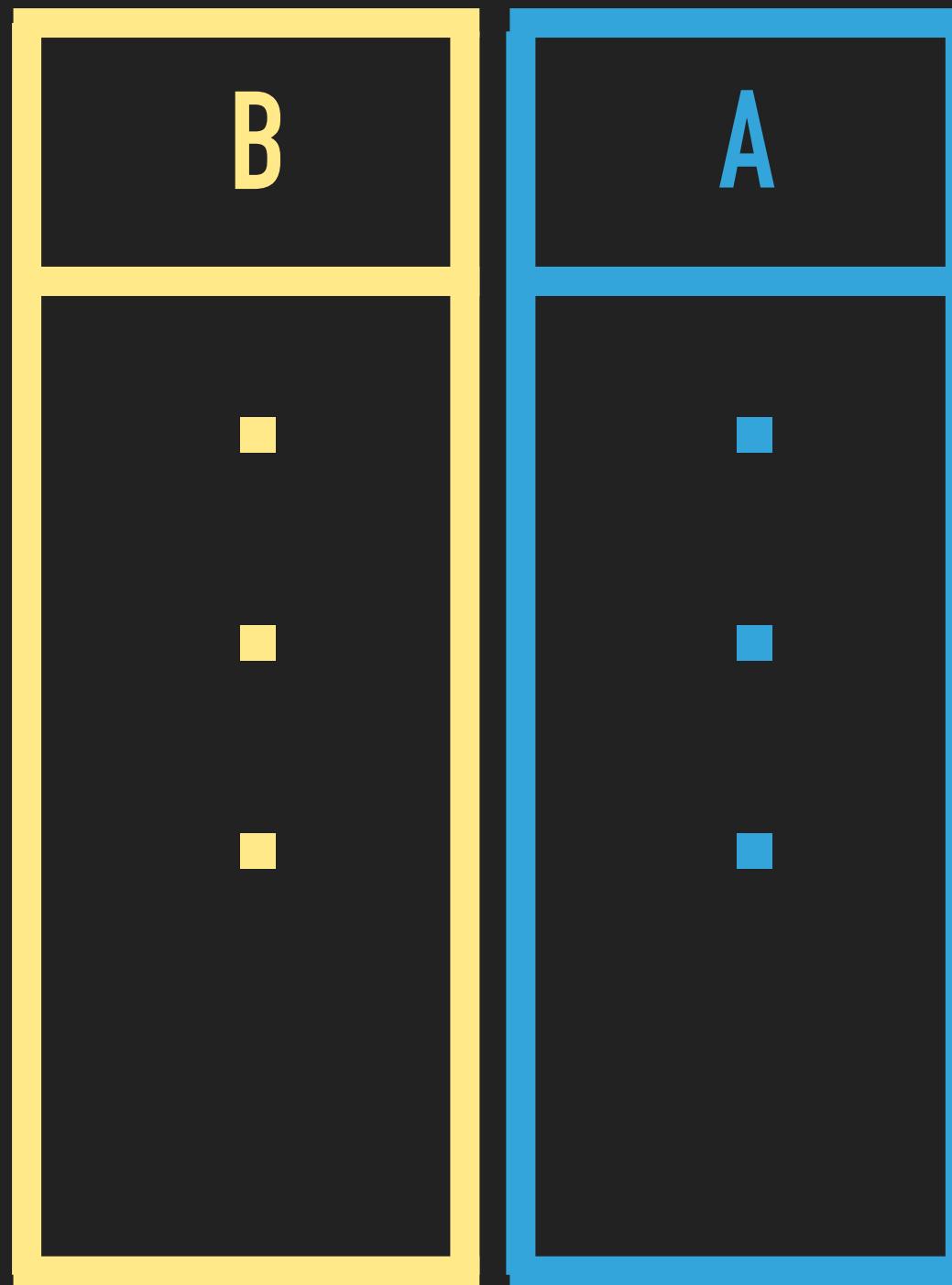
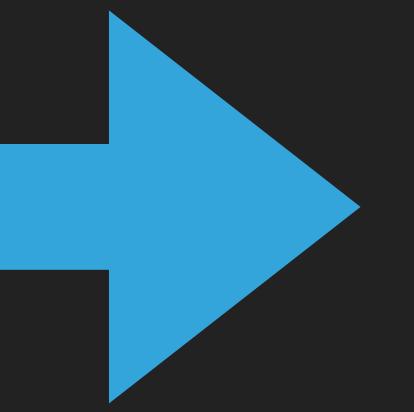
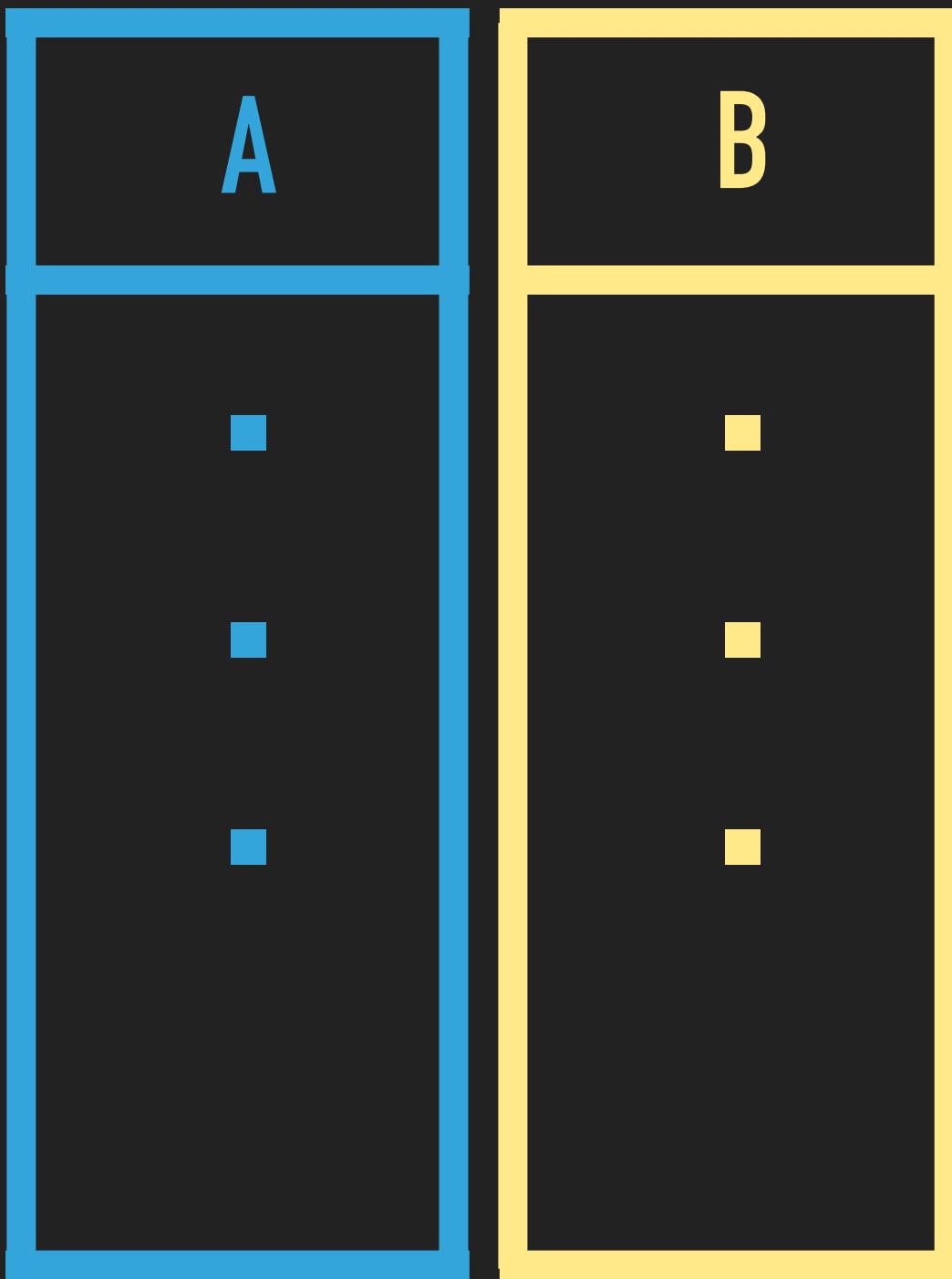
DESIGN /
METHOD





TRANSPARENCY != QUALITY CONTROL





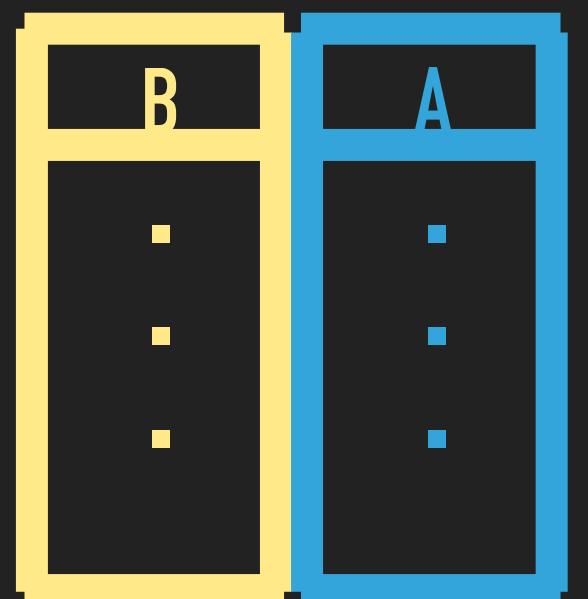
REPRODUCIBLE != ERROR-FREE

WHAT ELSE DO WE NEED FROM PEER CODE REVIEW?

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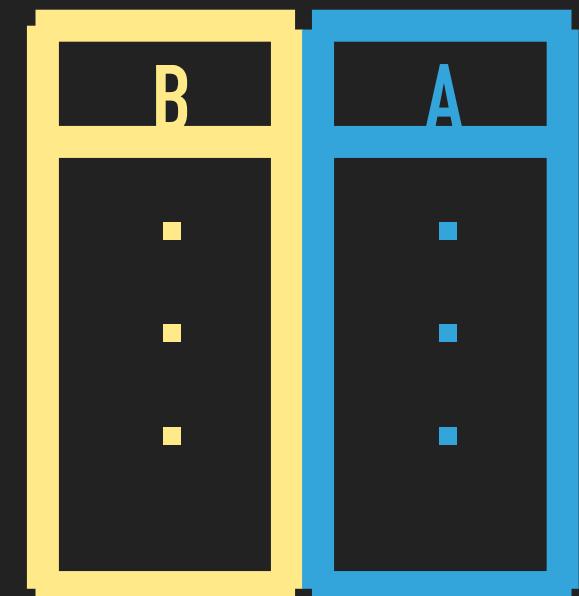
IS IT WORKING CORRECTLY?



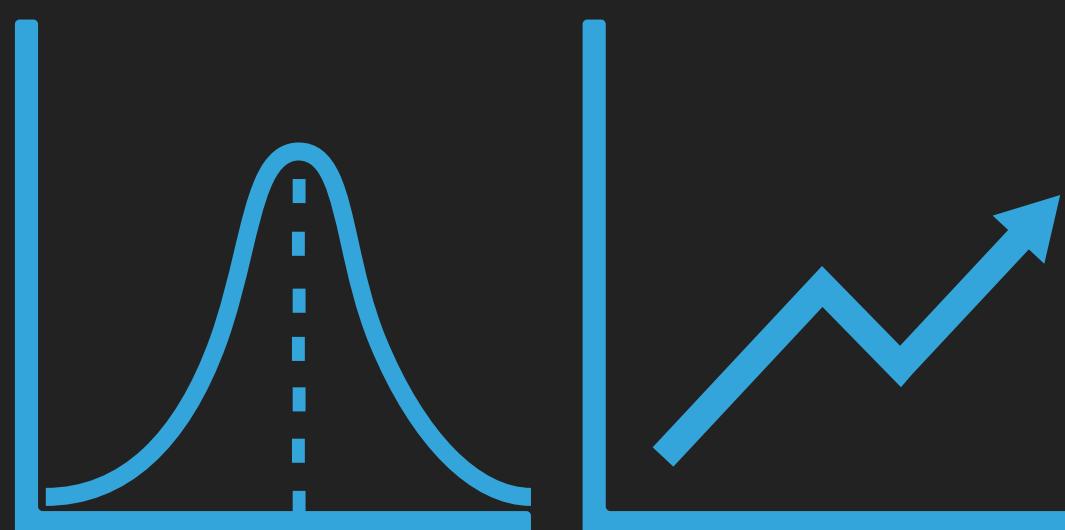
WHAT ELSE DO WE NEED FROM PEER CODE REVIEW?



IS IT WORKING
CORRECTLY?



IT IS
APPROPRIATE?



WHY PEER CODE REVIEW?

- ▶ REPRODUCE RESULTS
- ▶ ERROR CHECKING
- ▶ BUILD SKILLS