

Fayette Klaassen

IOPS

Winter conference 2018

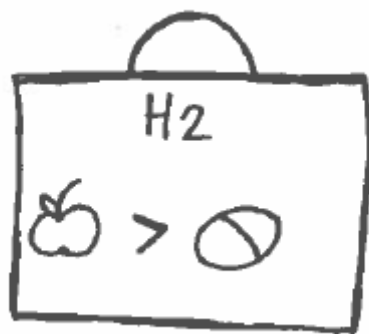
Dr. Jokes











$$\frac{P(H_1)}{P(H_2)} \times \frac{P(D|H_1)}{P(D|H_2)} = \frac{P(H_1|D)}{P(H_2|D)}$$



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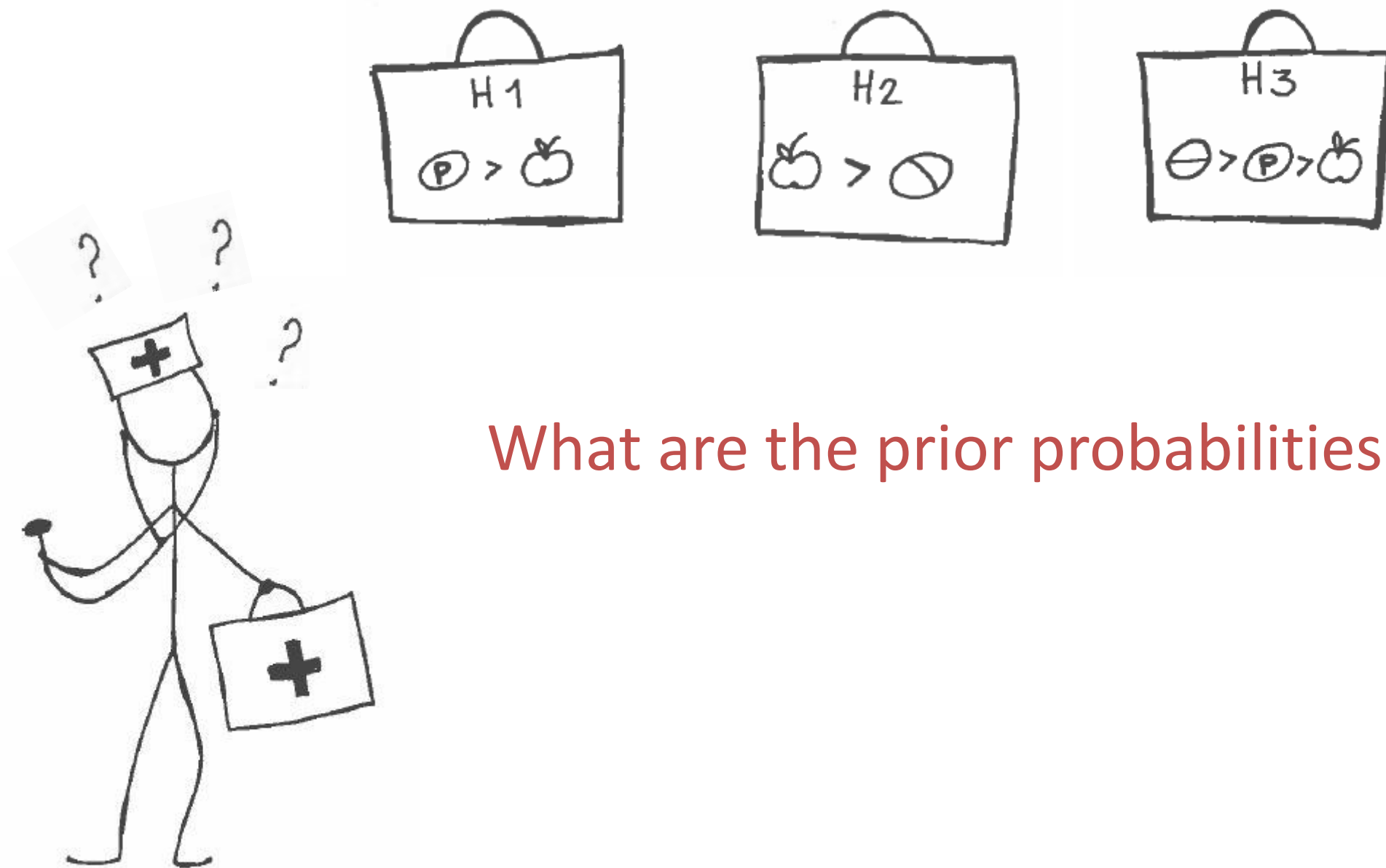
$$\frac{P(H_1)}{P(H_2)} \times \frac{P(D|H_1)}{P(D|H_2)} = \frac{P(H_1|D)}{P(H_2|D)}$$



$$\frac{P(H_1)}{P(H_2)} \times \frac{P(D|H_1)}{P(D|H_2)} = \frac{P(H_1|D)}{P(H_2|D)}$$



What are the prior probabilities?



What are the prior probabilities?



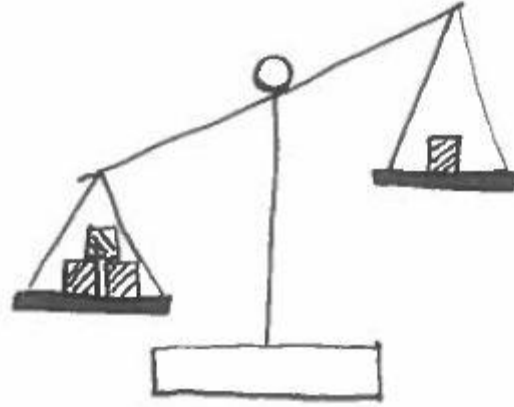
Prior probability

Why What How

Why

What

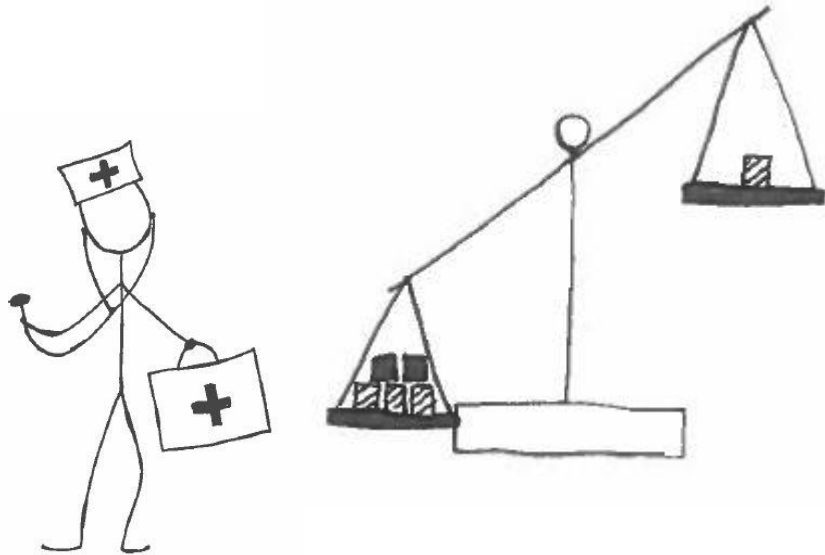
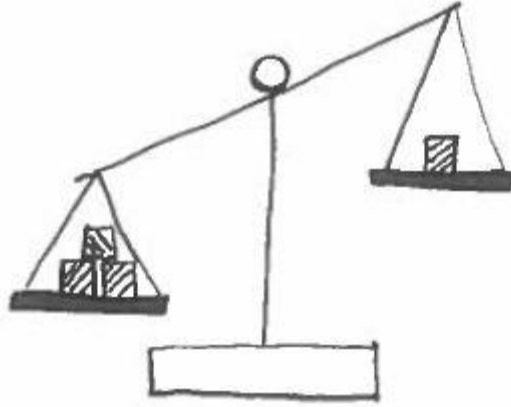
How



Why

What

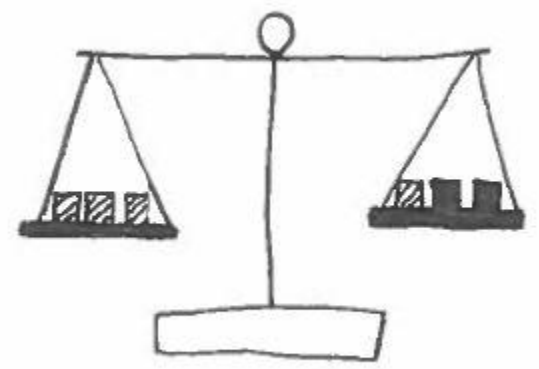
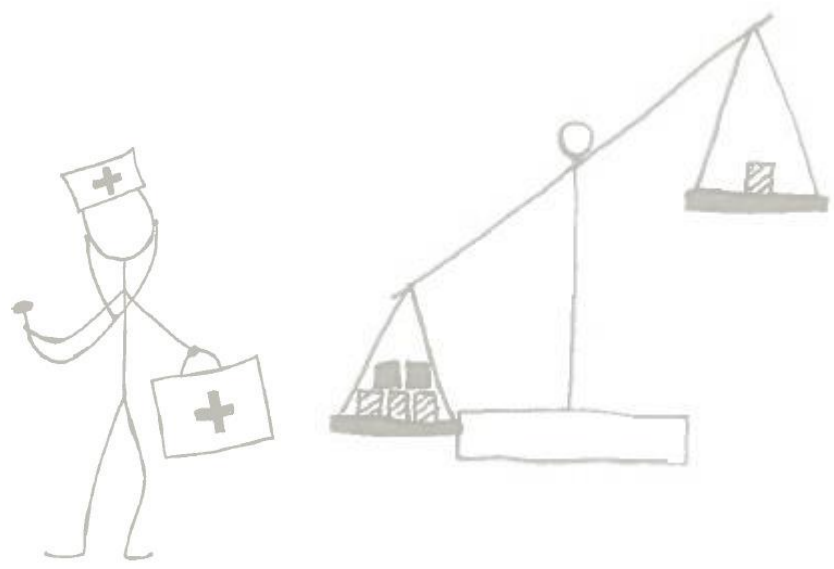
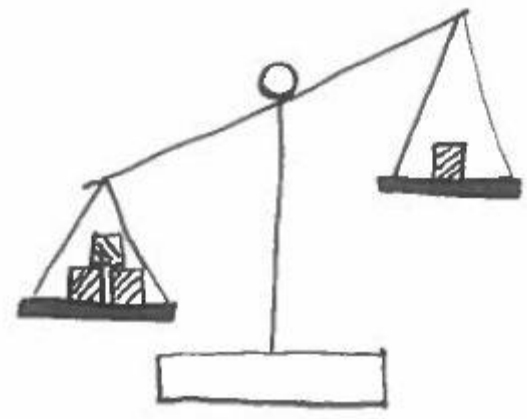
How



Why

What

How



Why

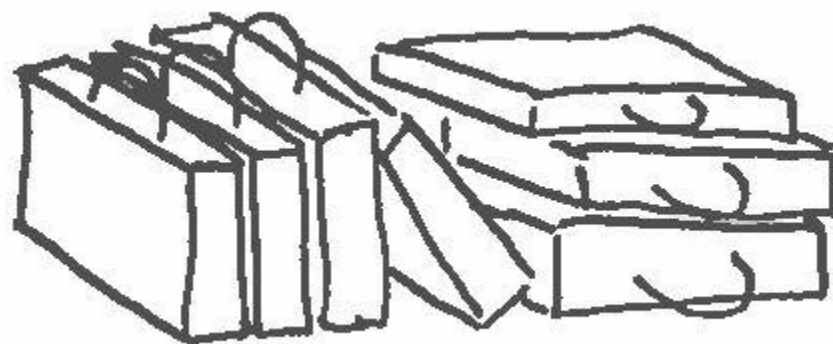


How

Why

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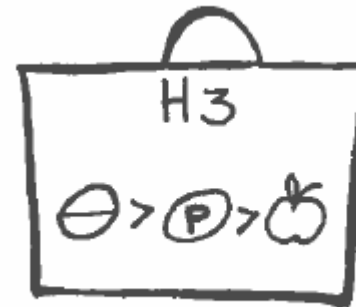
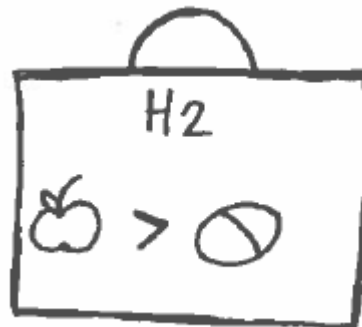
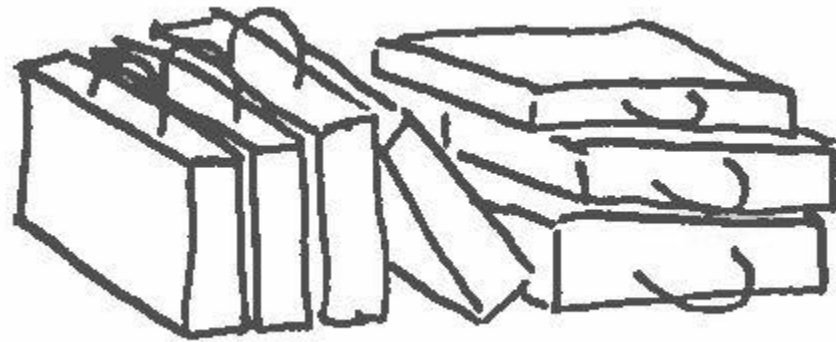
How



Why

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How



Why

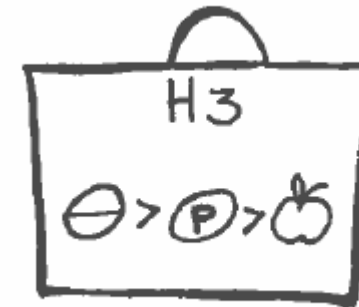
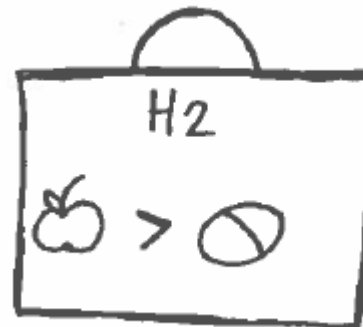
What

How

These hypotheses are possible

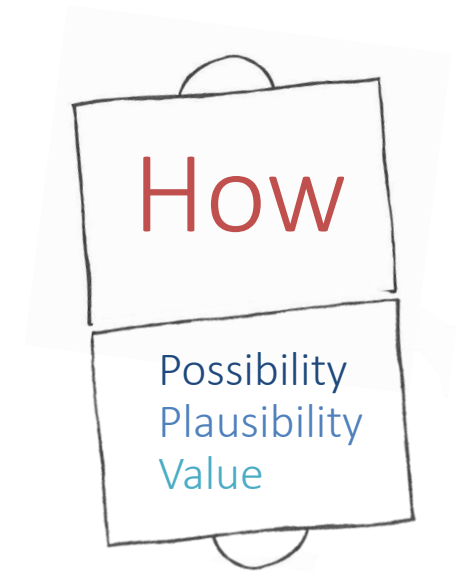
These hypotheses are plausible

I value these hypotheses



Why

What



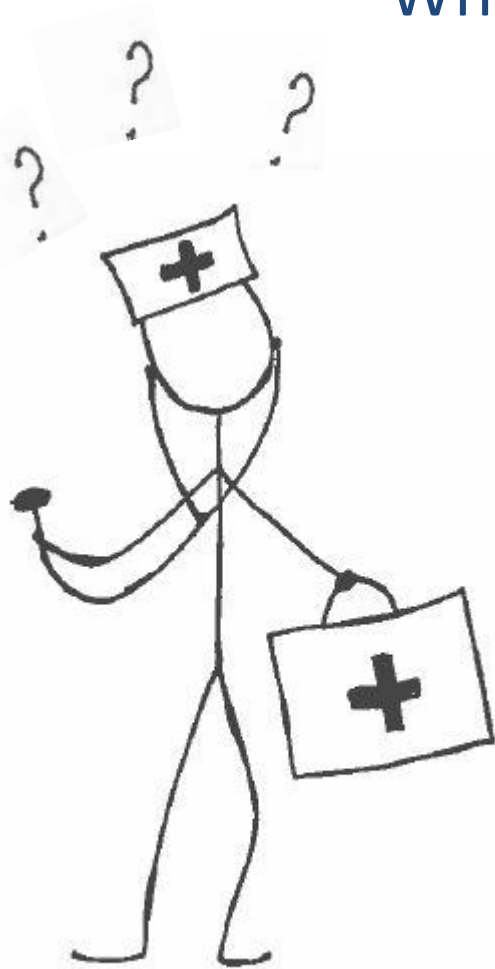
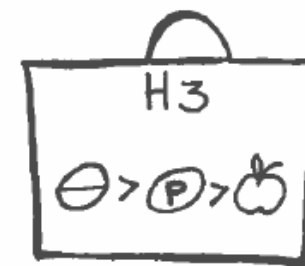
Why

What

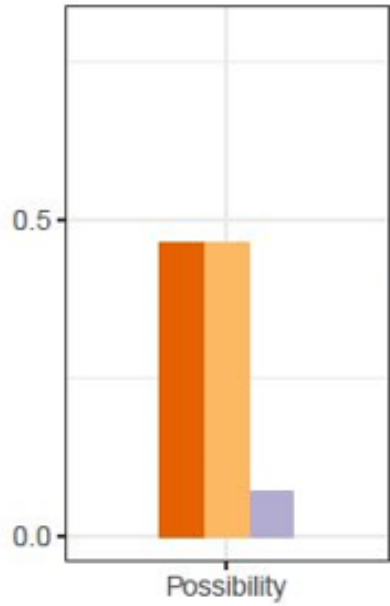
How

What is the probability that this hypothesis is true?

Possibility
Plausibility
Value



Why



What

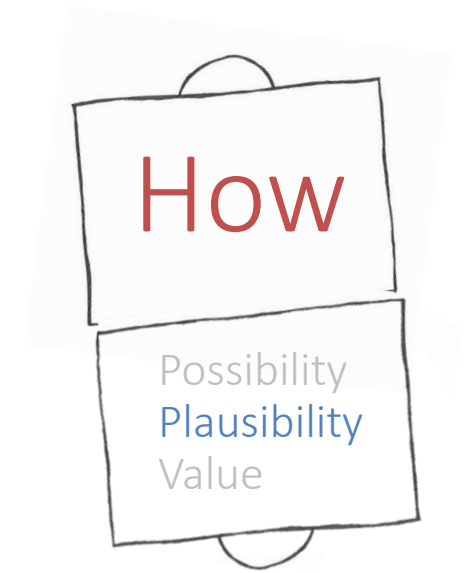


How

Possibility
Plausibility
Value

Why

What



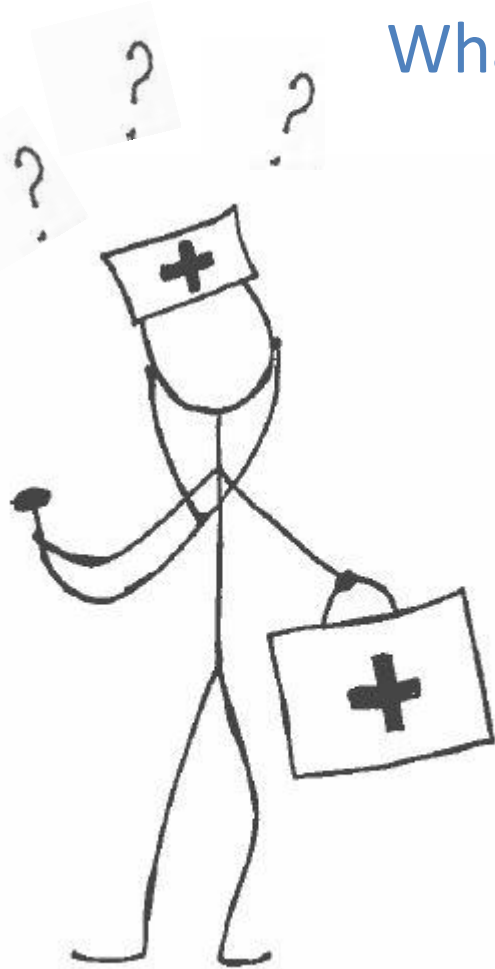
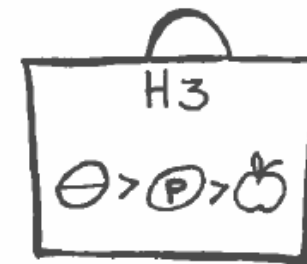
Why

What

How

What is the probability that this hypothesis is true?

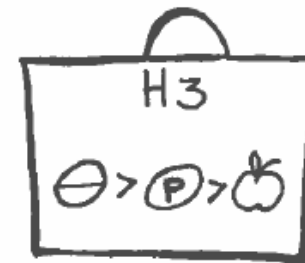
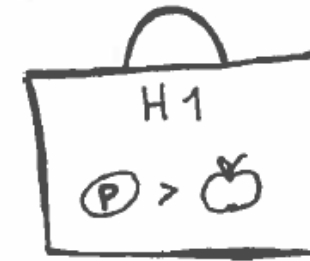
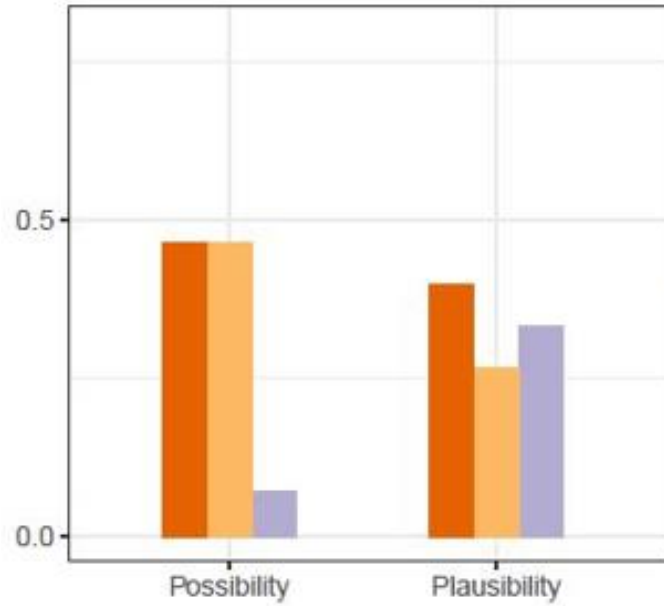
Possibility
Plausibility
Value



Why

What

How

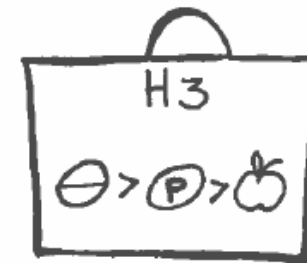
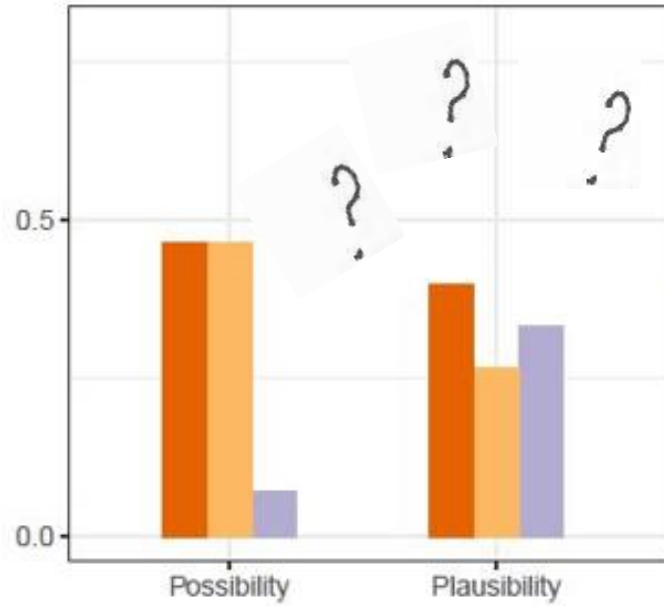


Possibility
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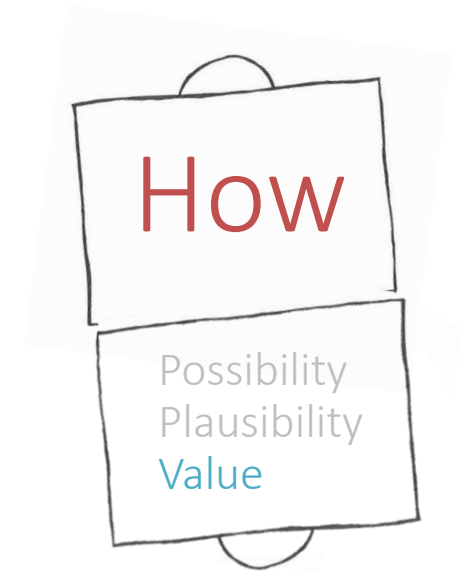
How



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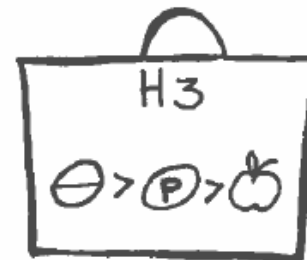
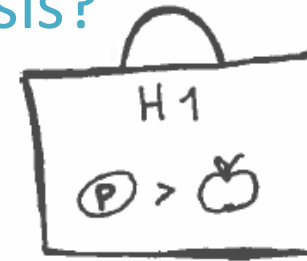


Why

What

How

What do you bet on this hypothesis?

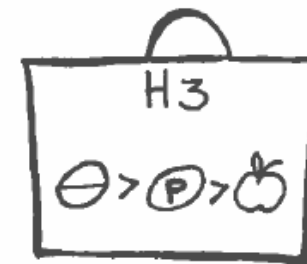
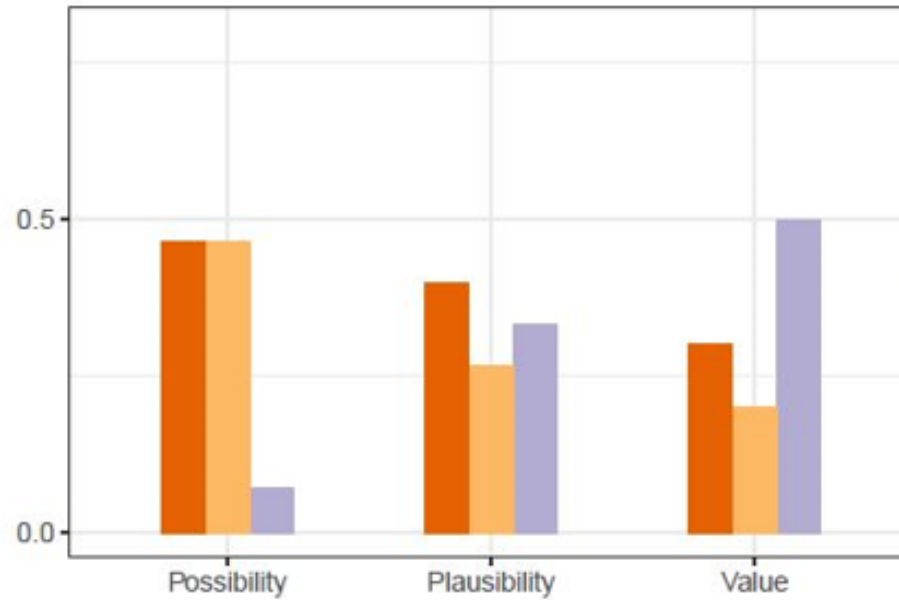


Possibility
Plausibility
Value

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What

How



Possibility
Plausibility
Value



Prior probabilities!

Posterior questions?

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<https://fayetteklaassen.github.io>