

Colorless green ideas 2019

State Trace Analysis



Law

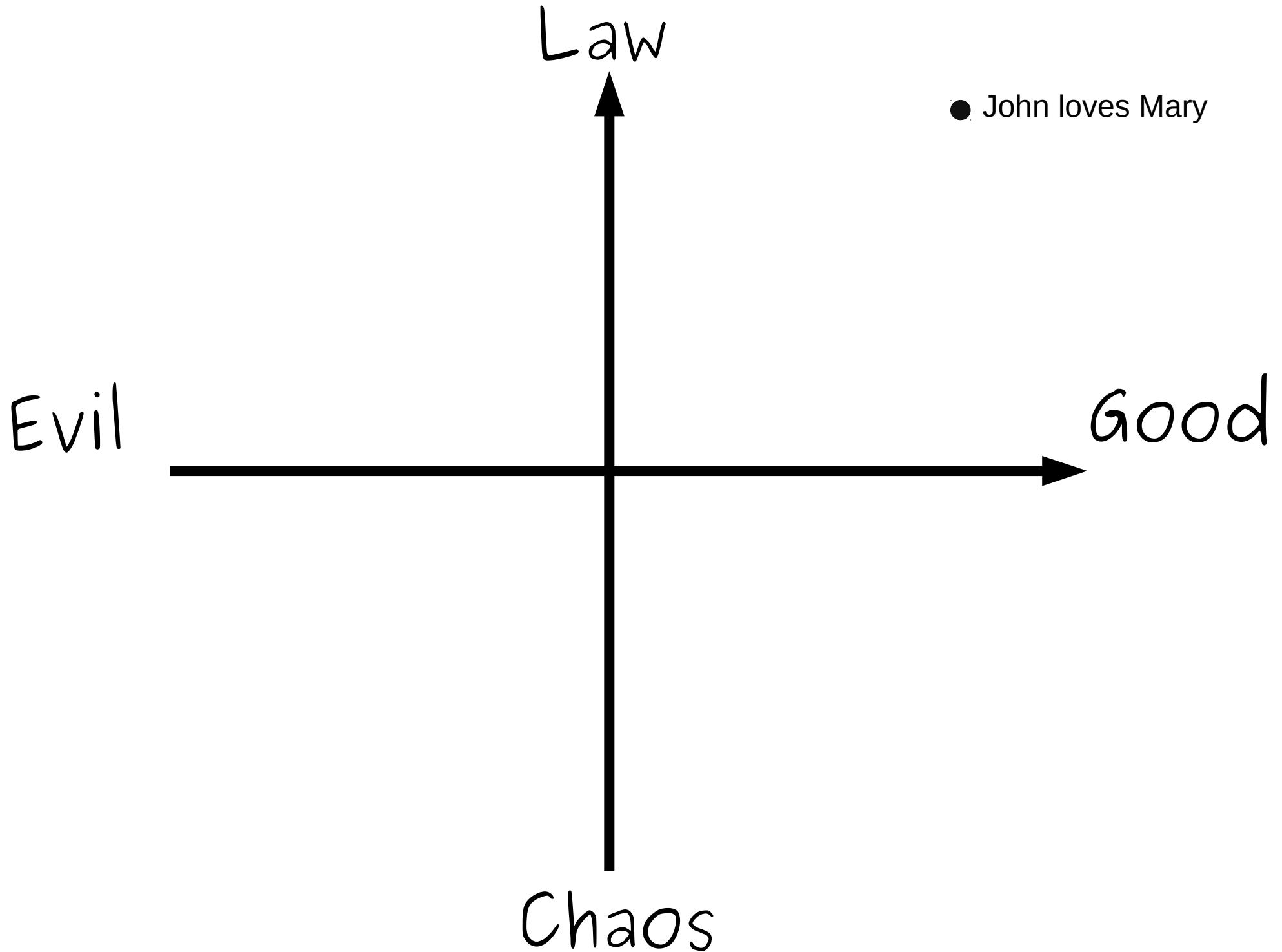


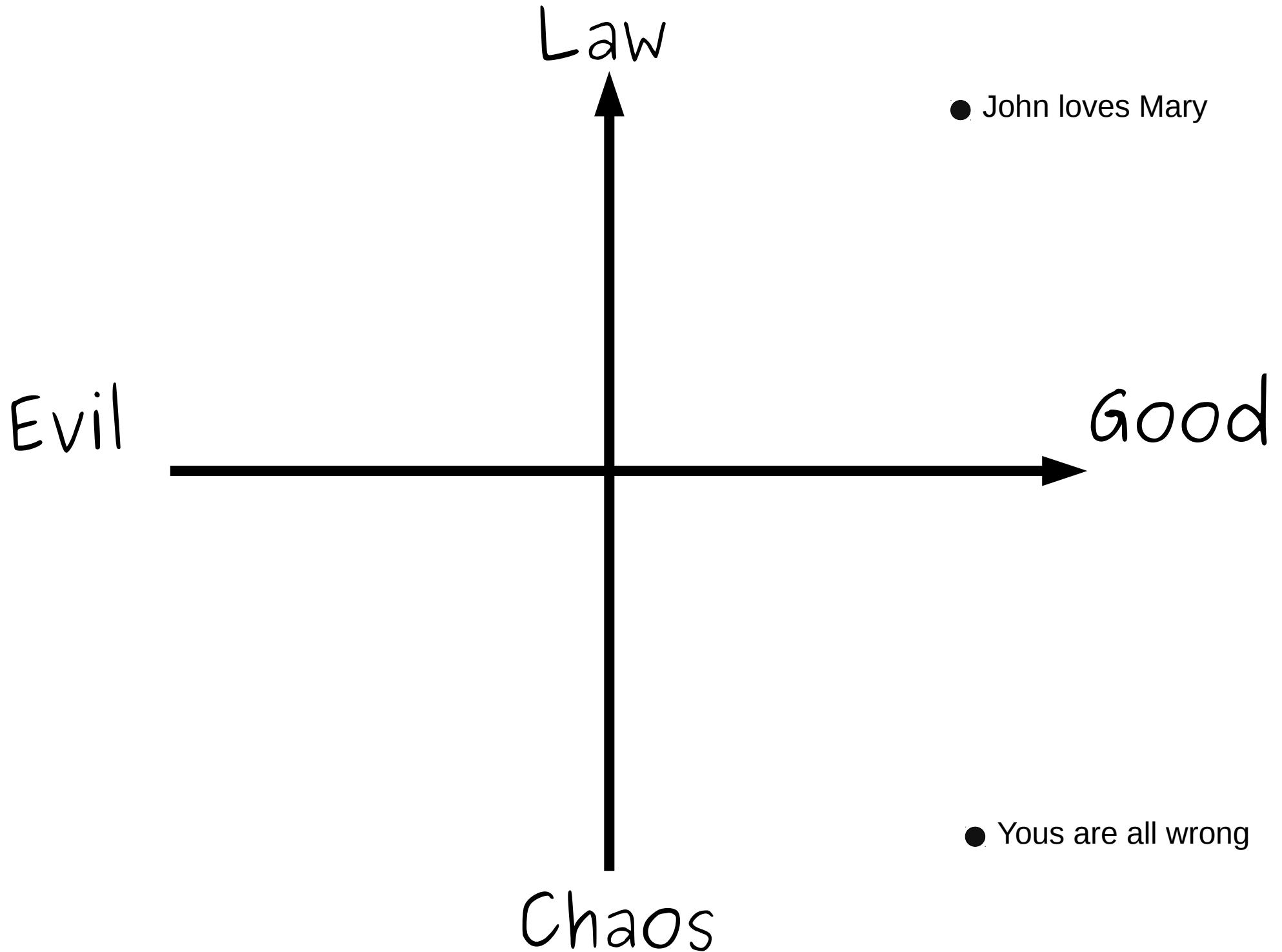
Evil

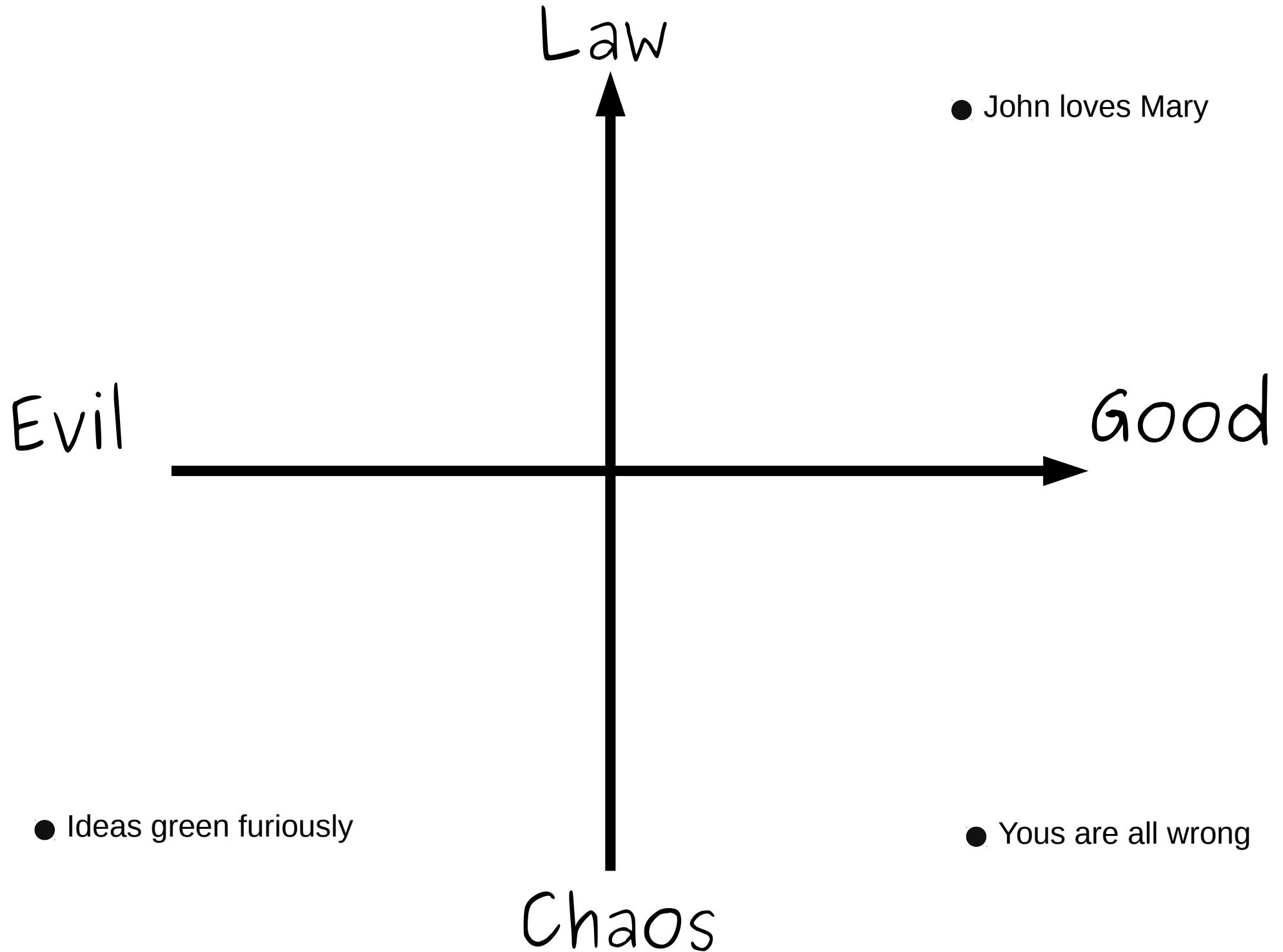


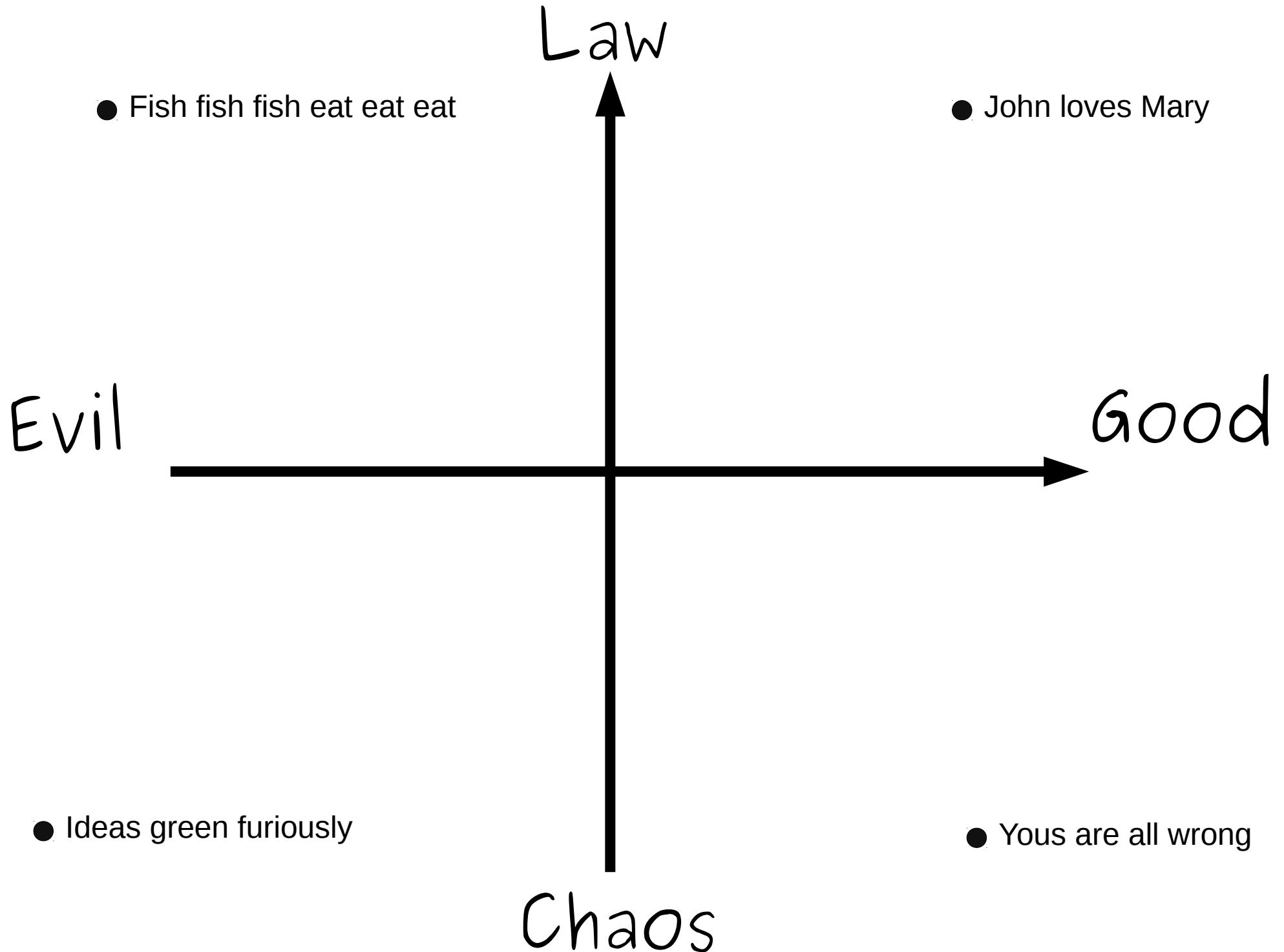
Good

Chaos

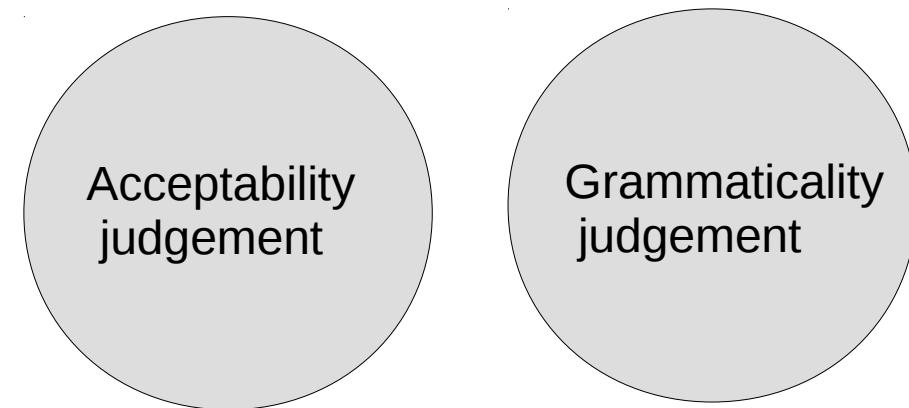




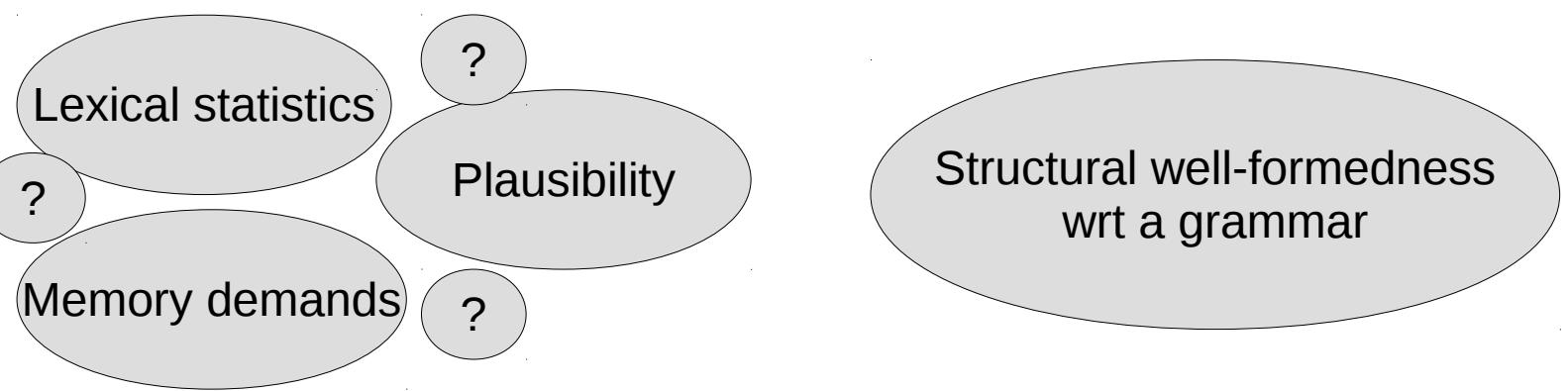




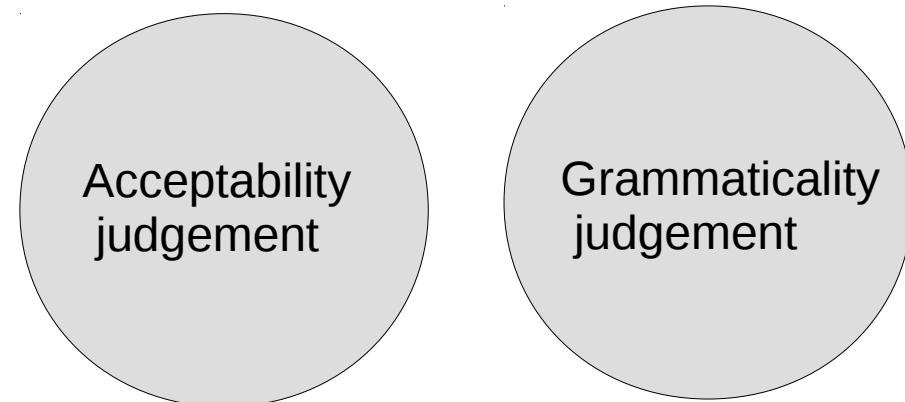
Observable outcome



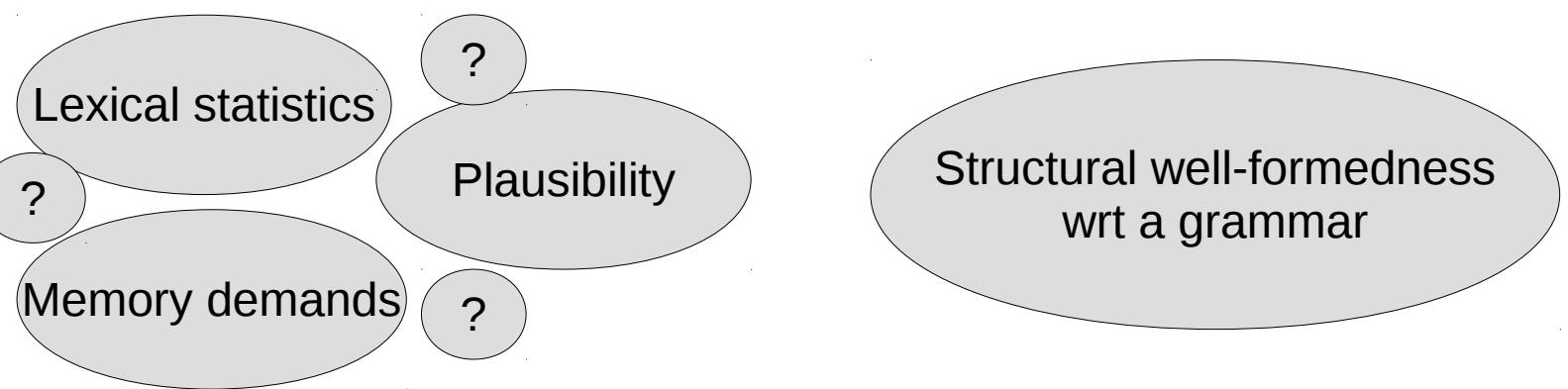
Sentence properties



Observable outcome

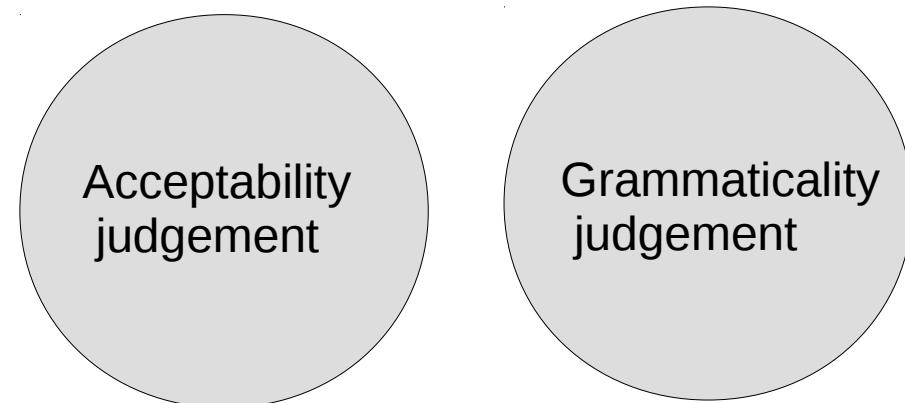


Sentence properties

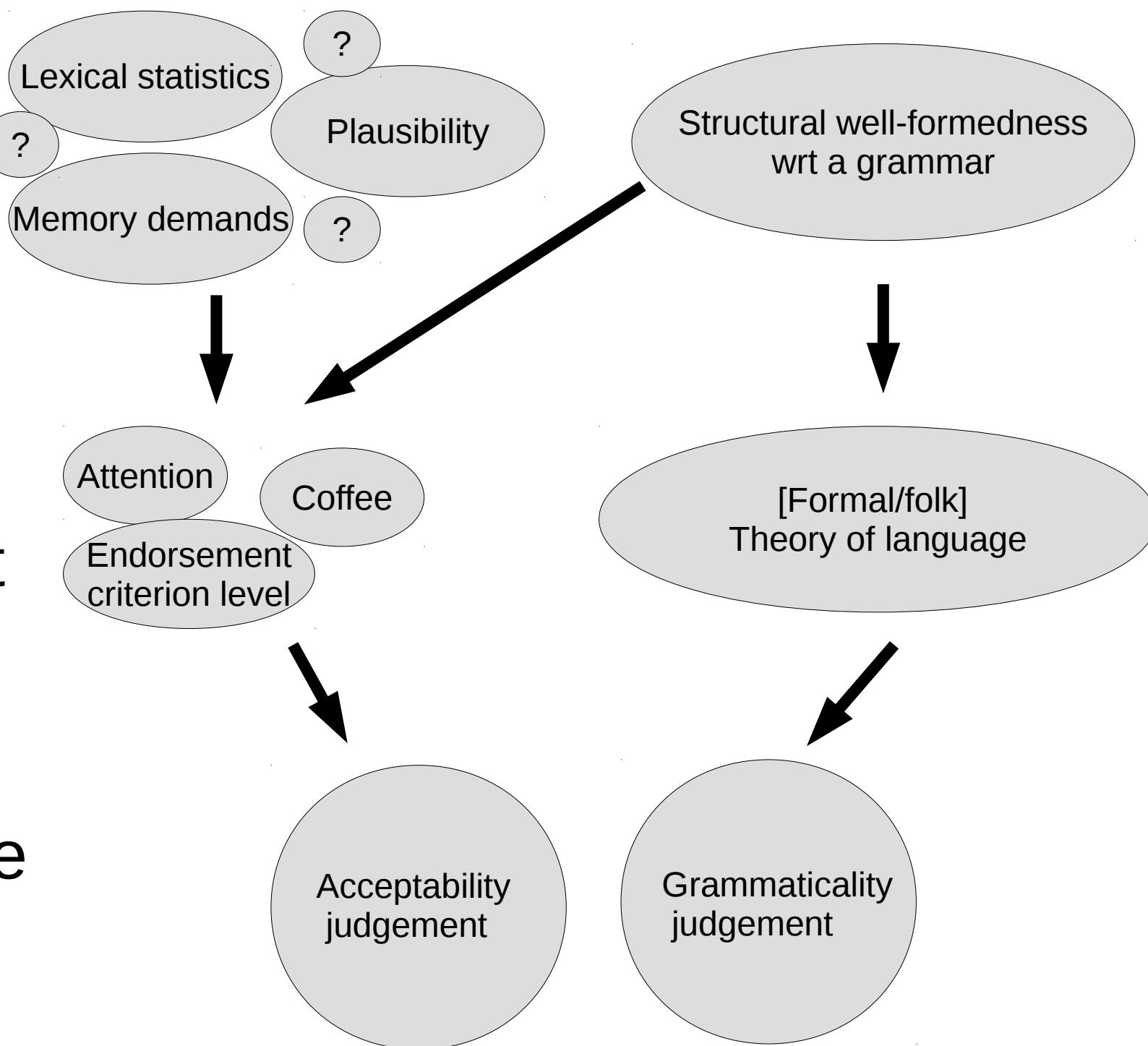


Perception & Judgement

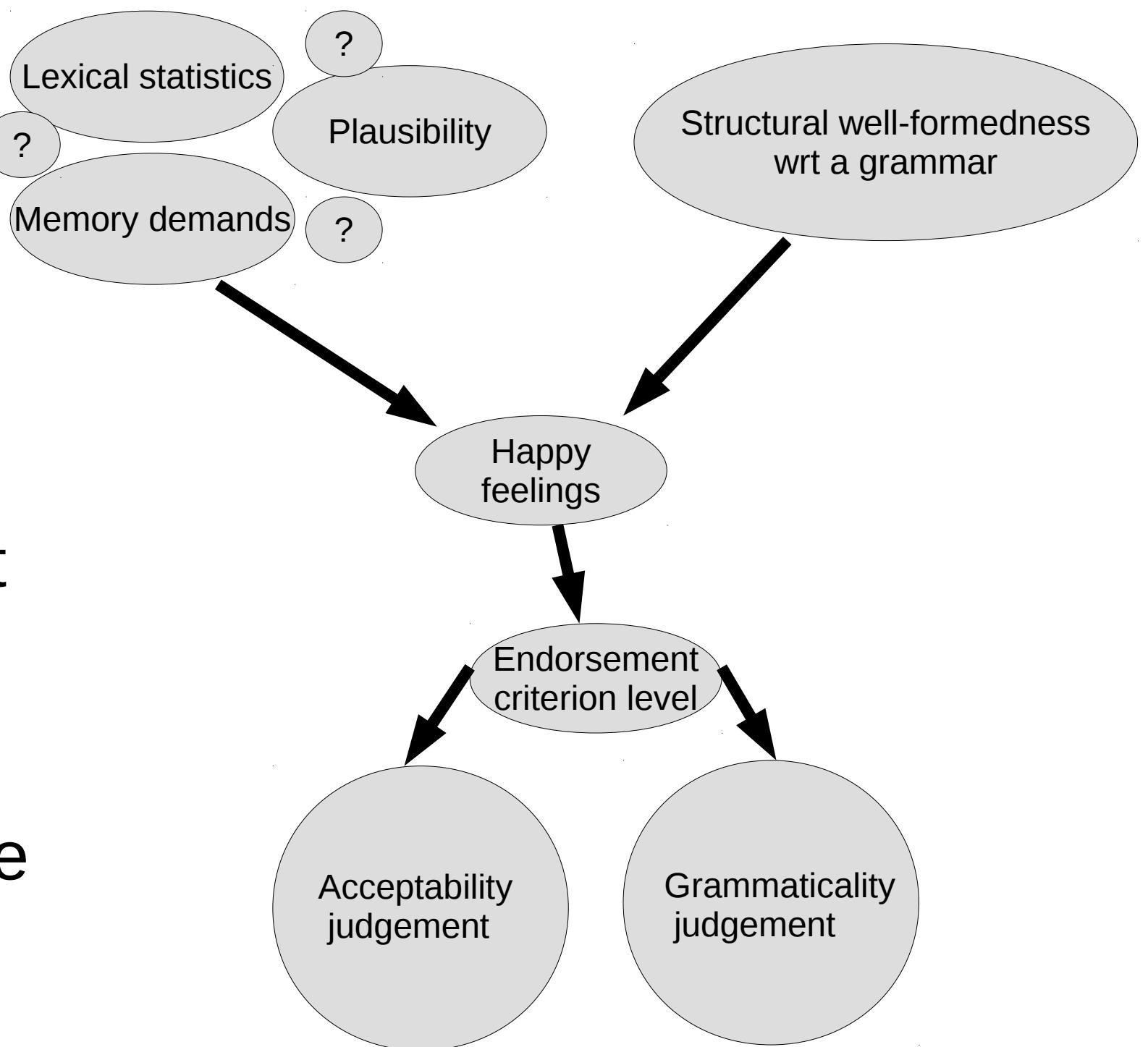
Observable outcome



Sentence properties

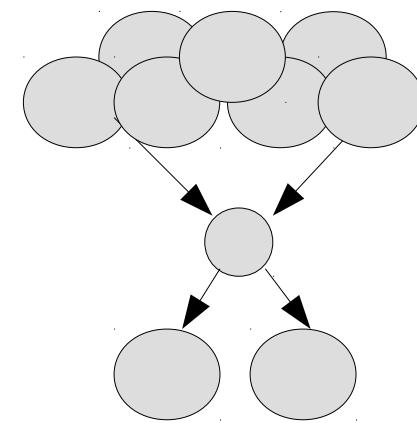
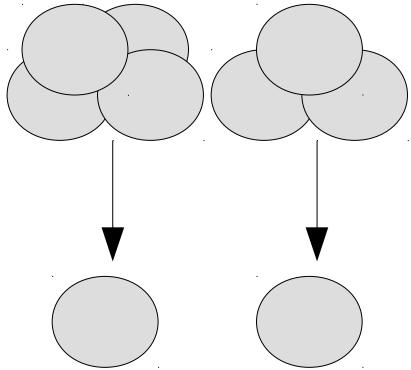


Sentence properties



Perception
&
Judgement

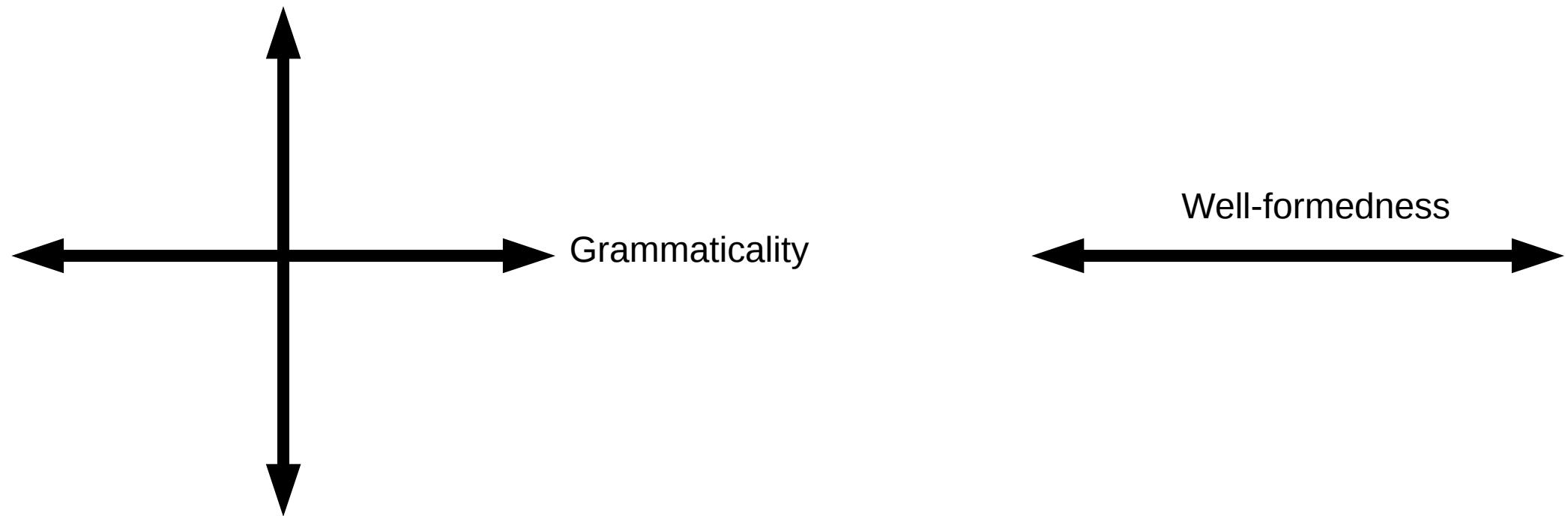
Observable
outcome



Acceptability

Grammaticality

Well-formedness



A short list of things that don't
compel belief in the 2d account

A short list of things that don't compel belief in the 2d account

- There exist sentences that are judged grammatical but not acceptable.

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- Both (1) and (2) at the same time.

A short list of things that don't compel belief in the 2d account

- There exist sentences that are judged grammatical but not acceptable.
- There exist sentences that are judged acceptable but not grammatical.
- Both (1) and (2) at the same time.
- Grammaticality judgments can be shown to contain ‘extra information’ over that contained in acceptability judgments.

Dissociations in 1D

Dissociations in 1D

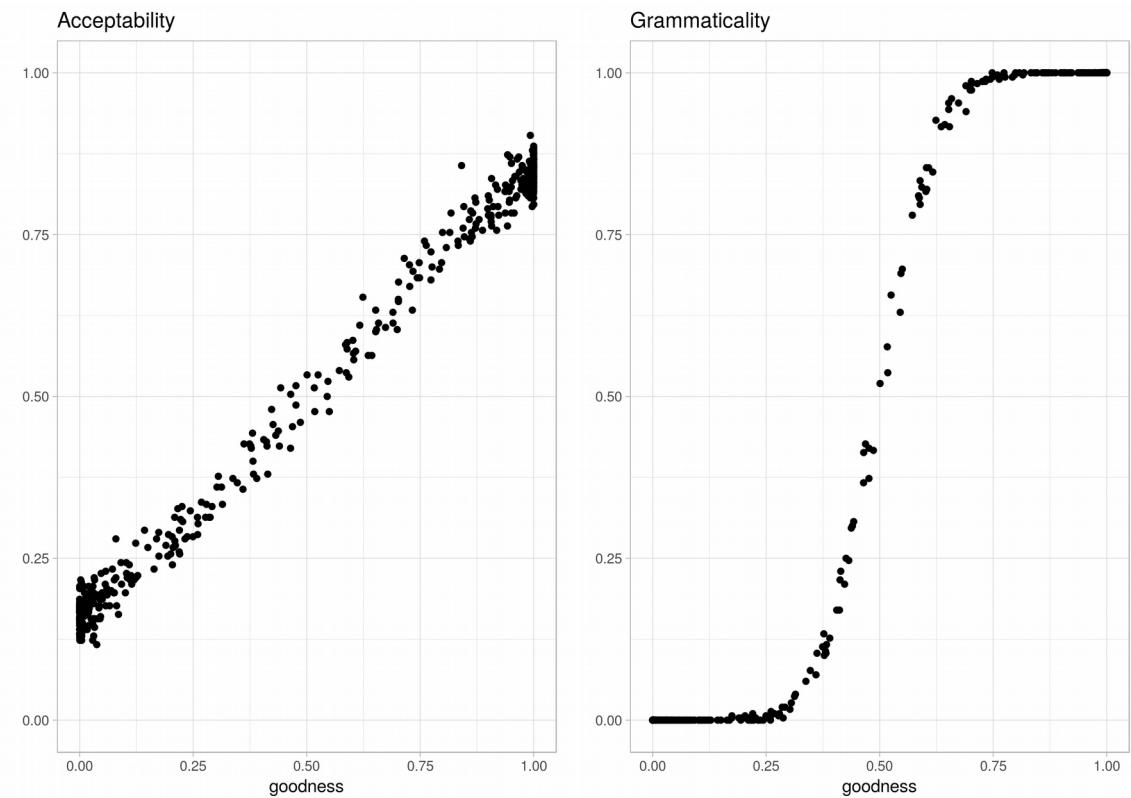
(non-linear) Mapping 1:
Stimulus → representation

Dissociations in 1D

(non-linear) Mapping 1: $A(x)=\Phi(.5,x,0.5)$
Stimulus → representation $G(x)=\Phi(.5,x,0.1)$

Dissociations in 1D

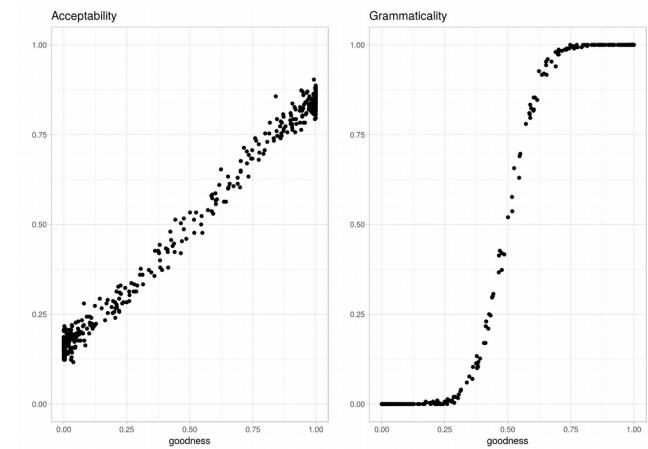
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Dissociations in 1D

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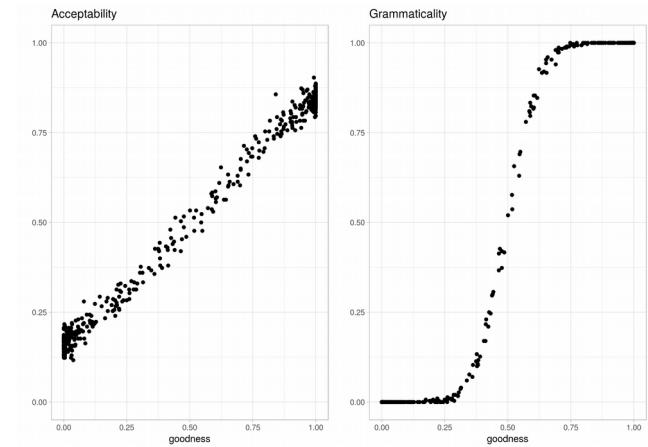
$$A(x) = \Phi(0.5, x, 0.5)$$
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Dissociations in 1D

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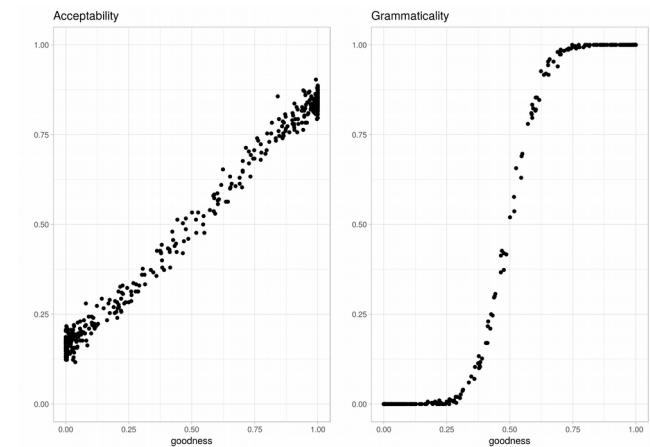


(non-linear) Mapping 2:
Representation → response

Dissociations in 1D

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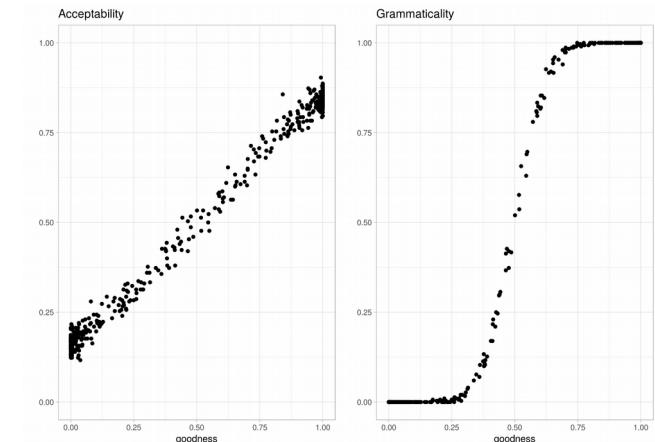
(non-linear) Mapping 2:
Representation → response

Dichotomize
on median

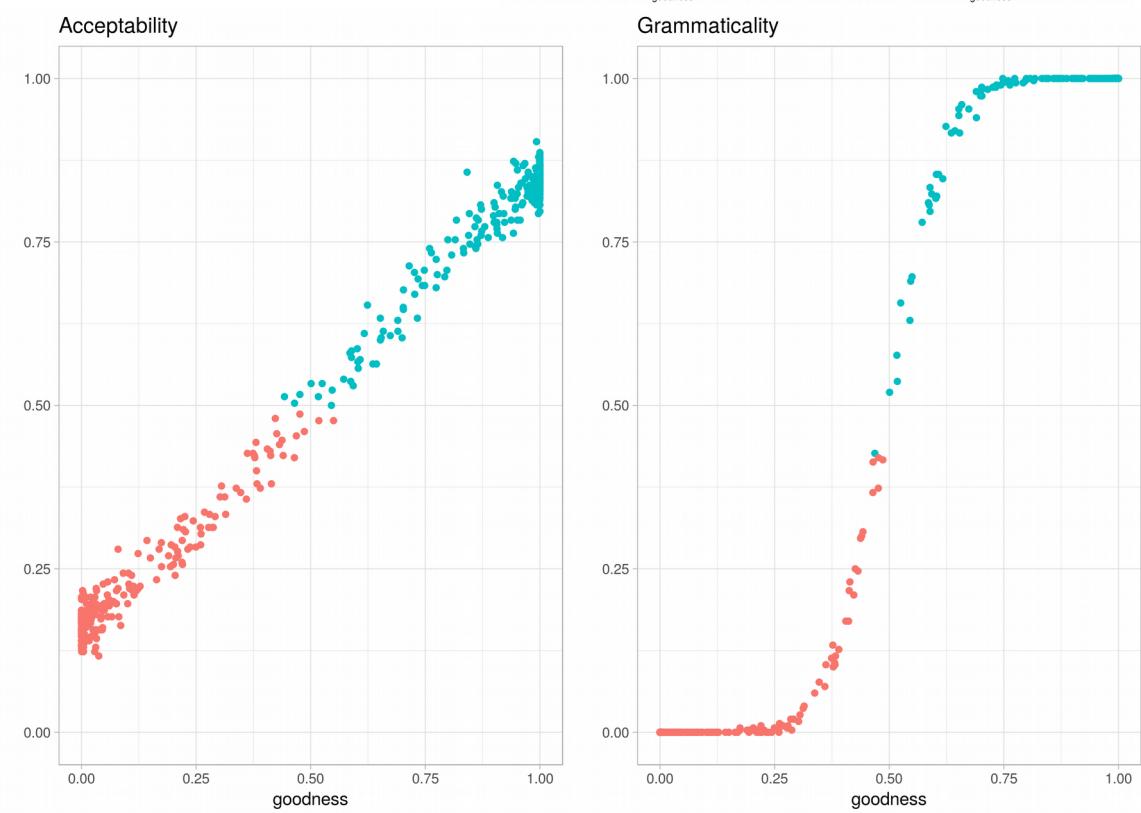
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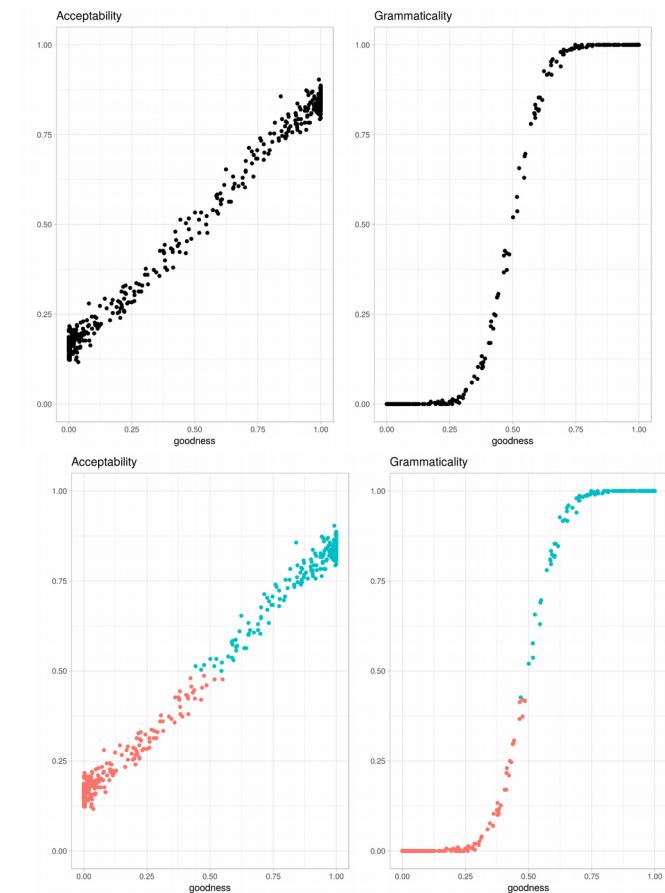
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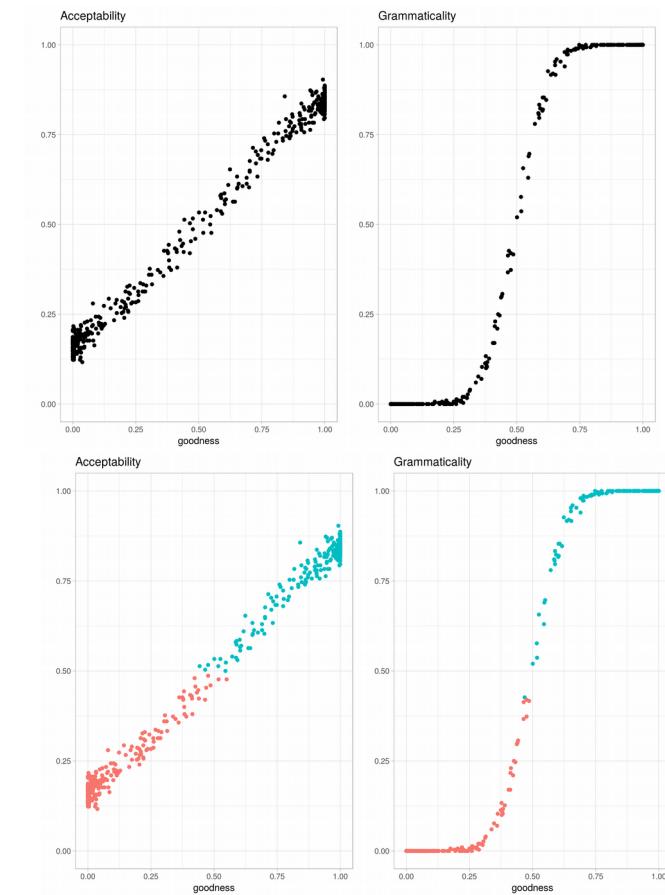
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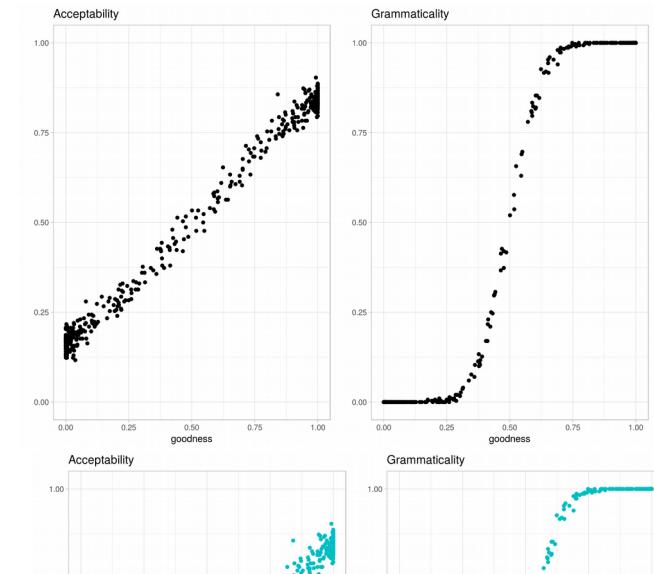


Re-scale if necessary:
units are unconstrained.

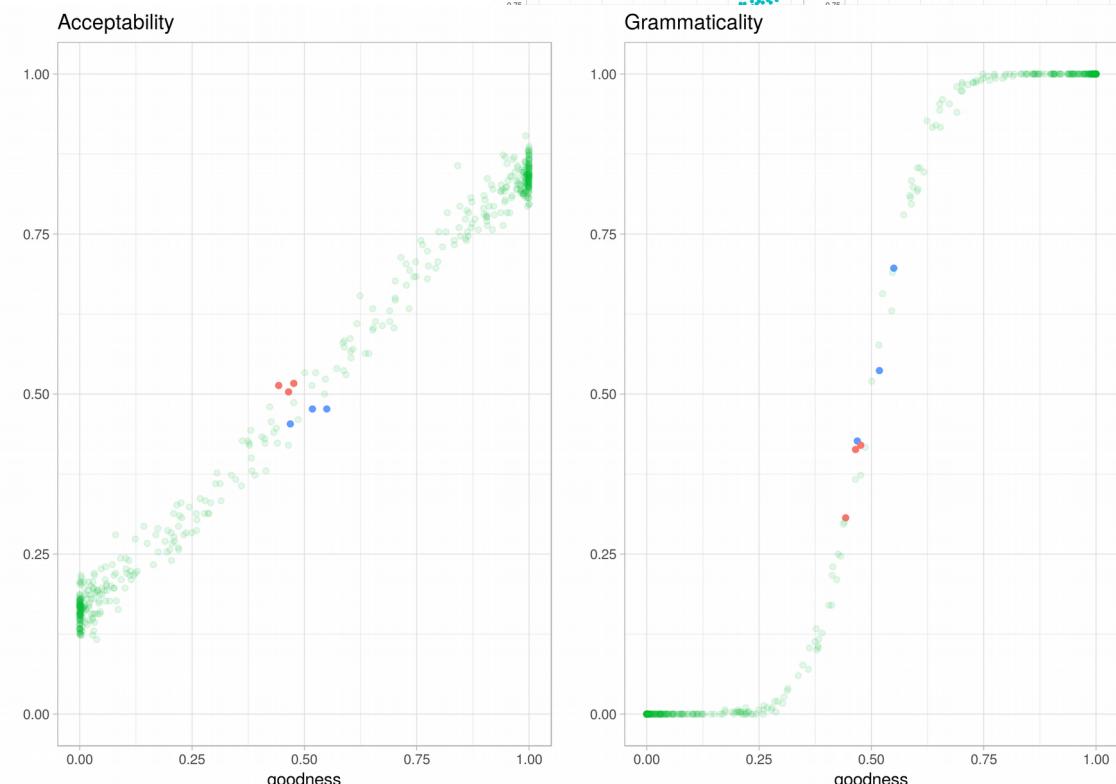
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Dissociations in 1D

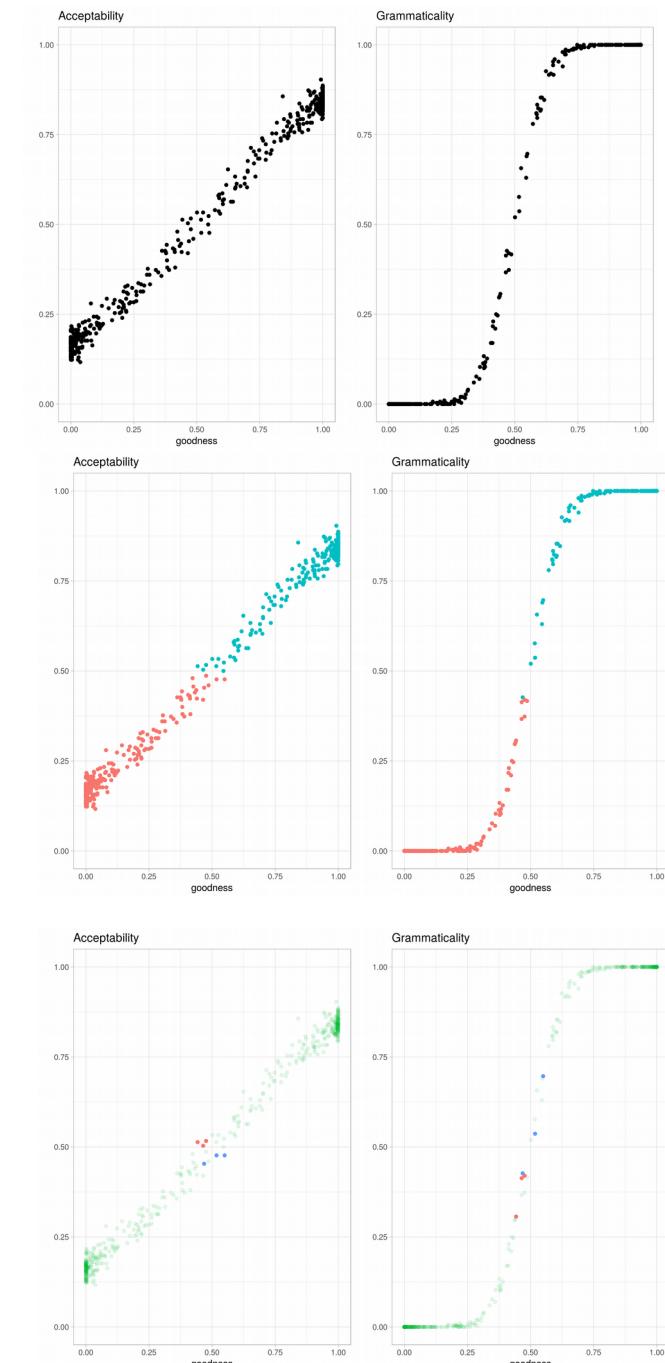
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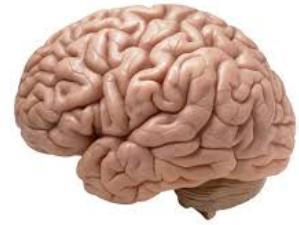
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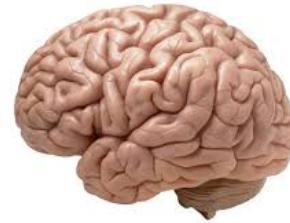
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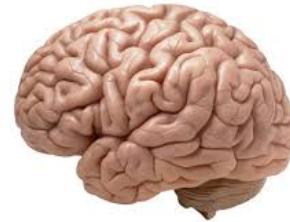
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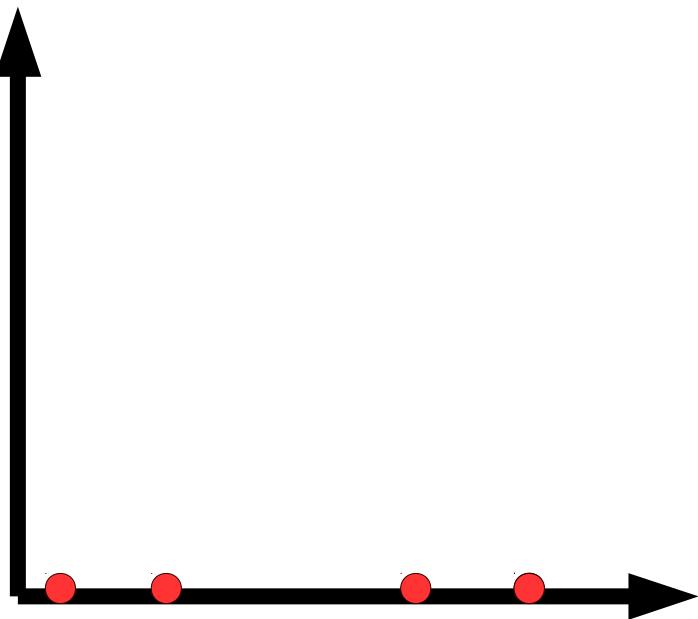
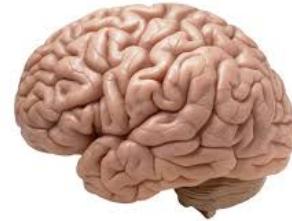
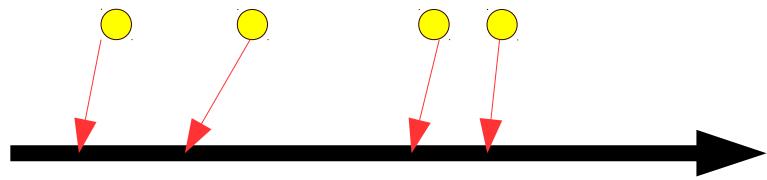
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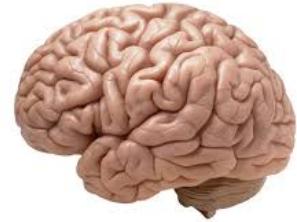
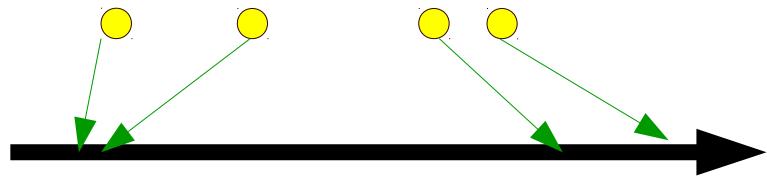


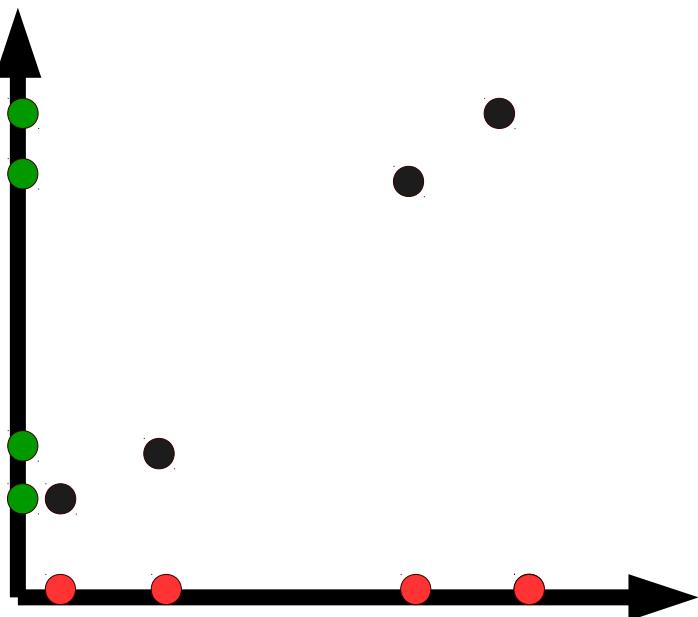
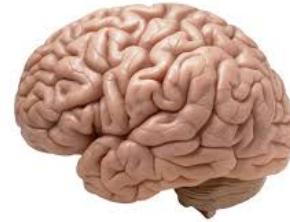


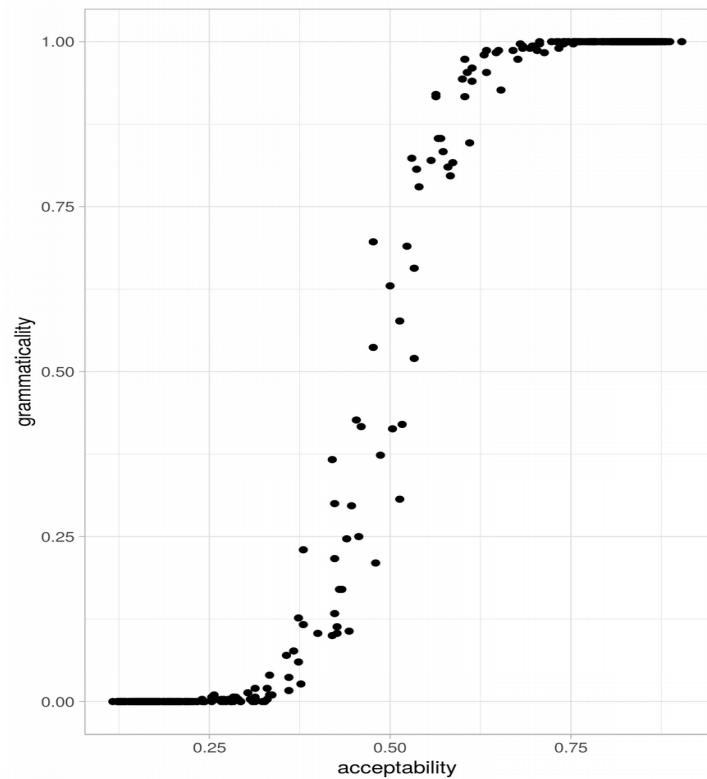
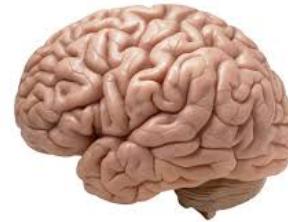


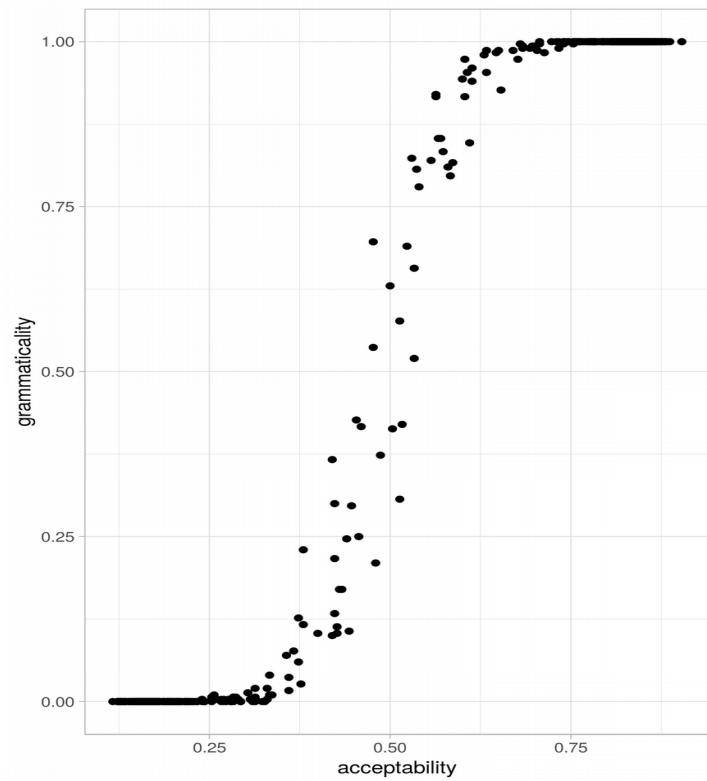


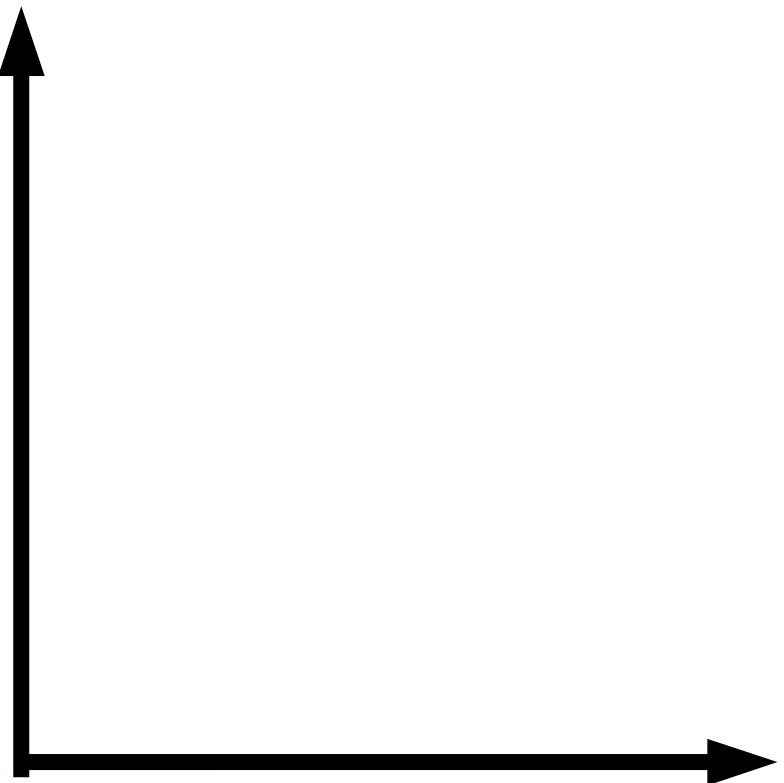
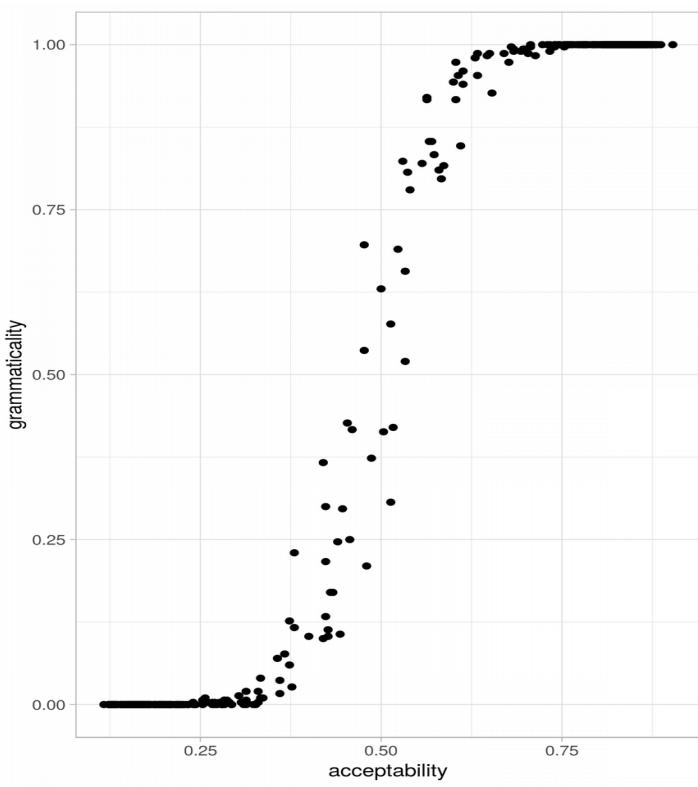
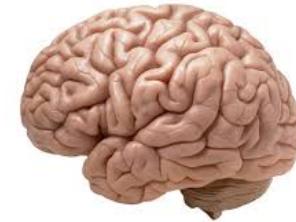


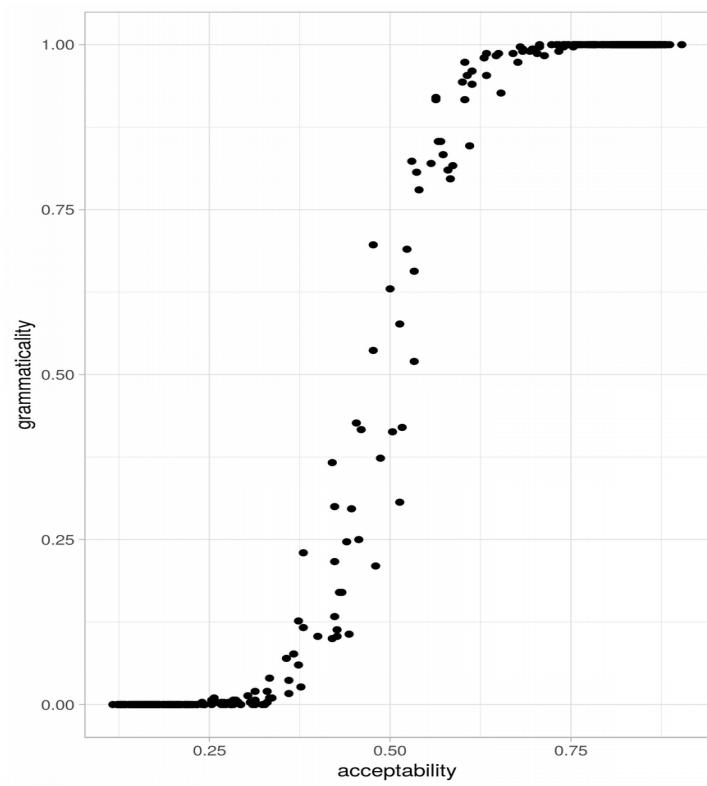
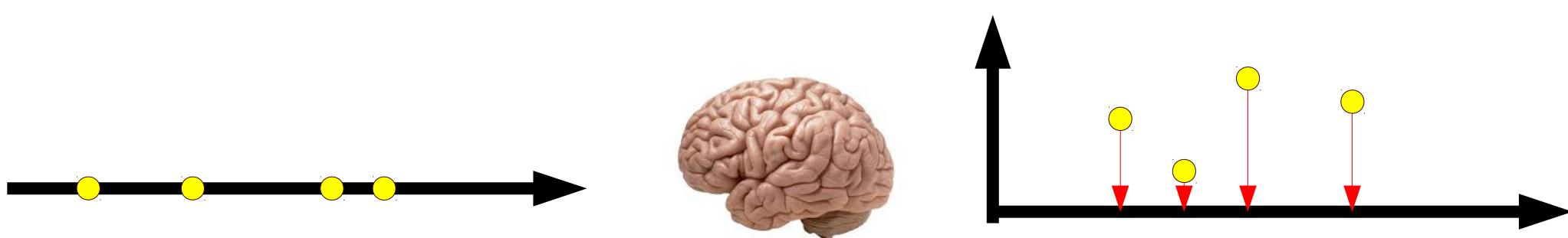


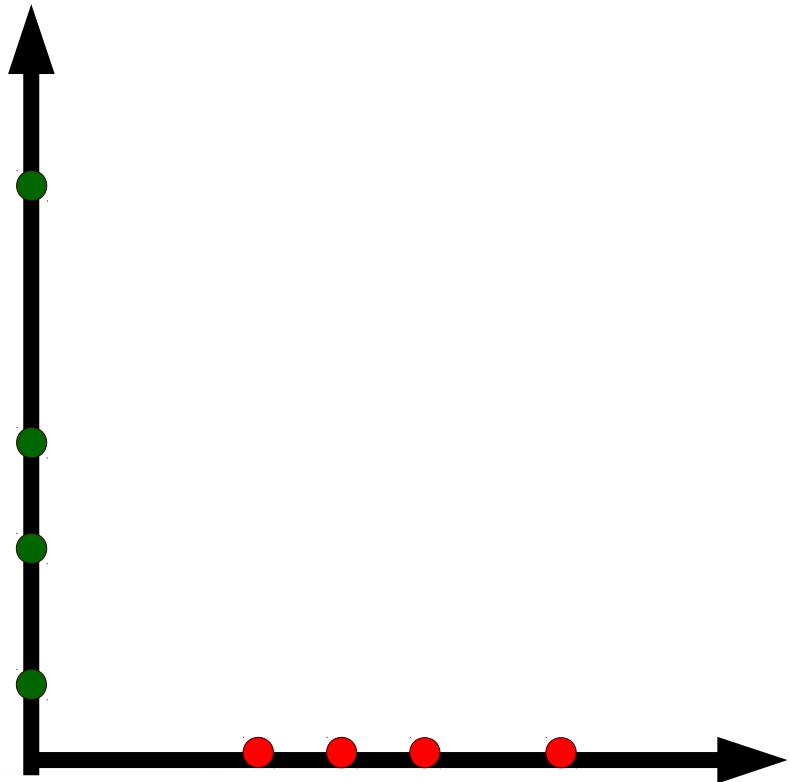
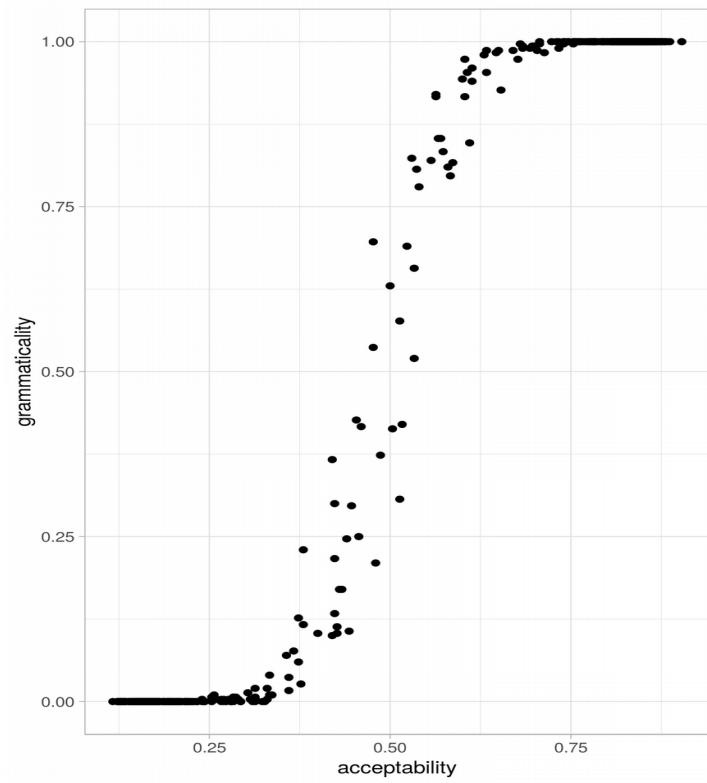
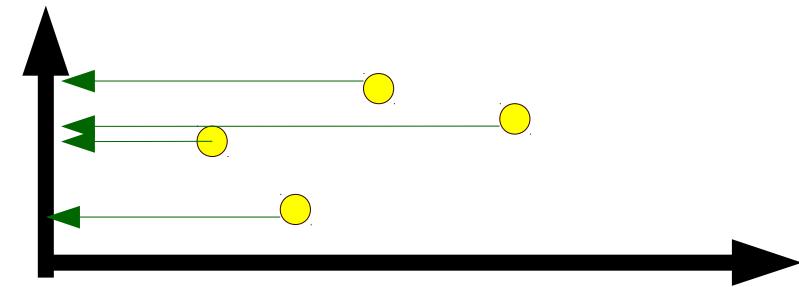
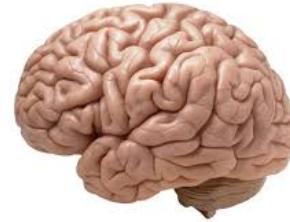


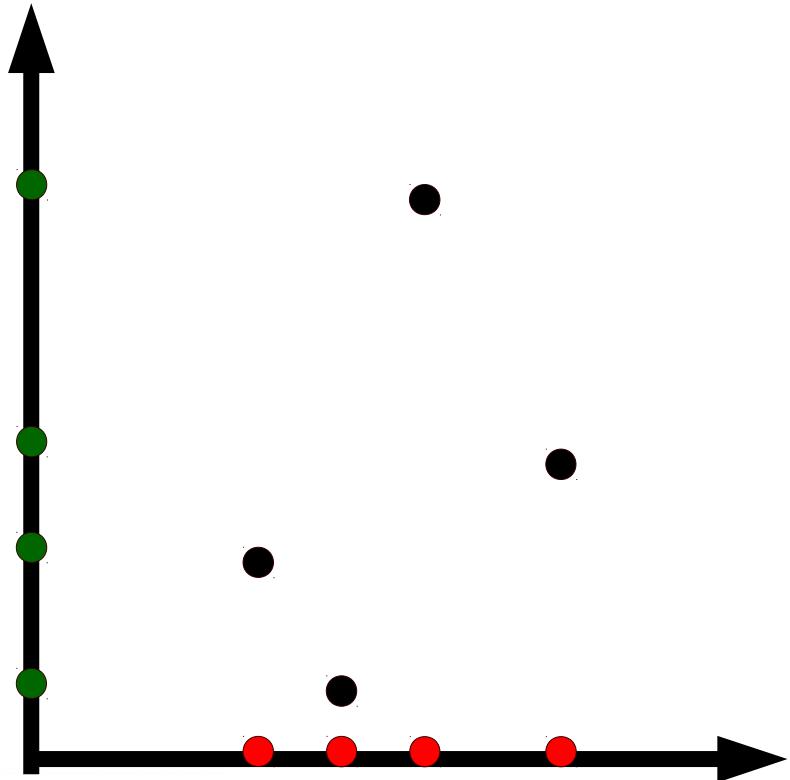
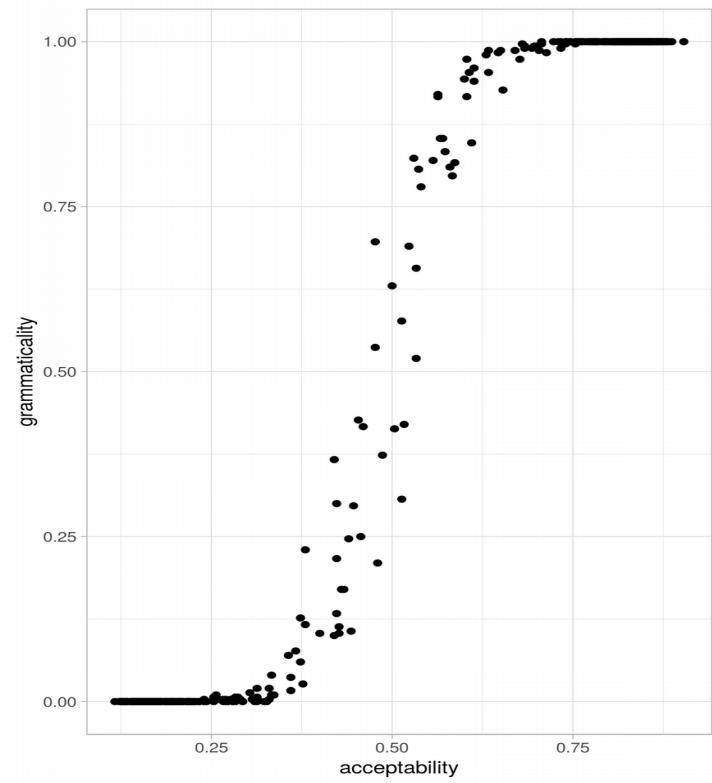
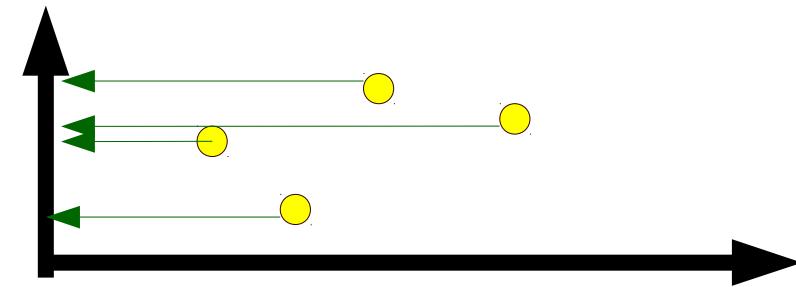
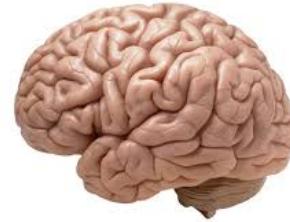


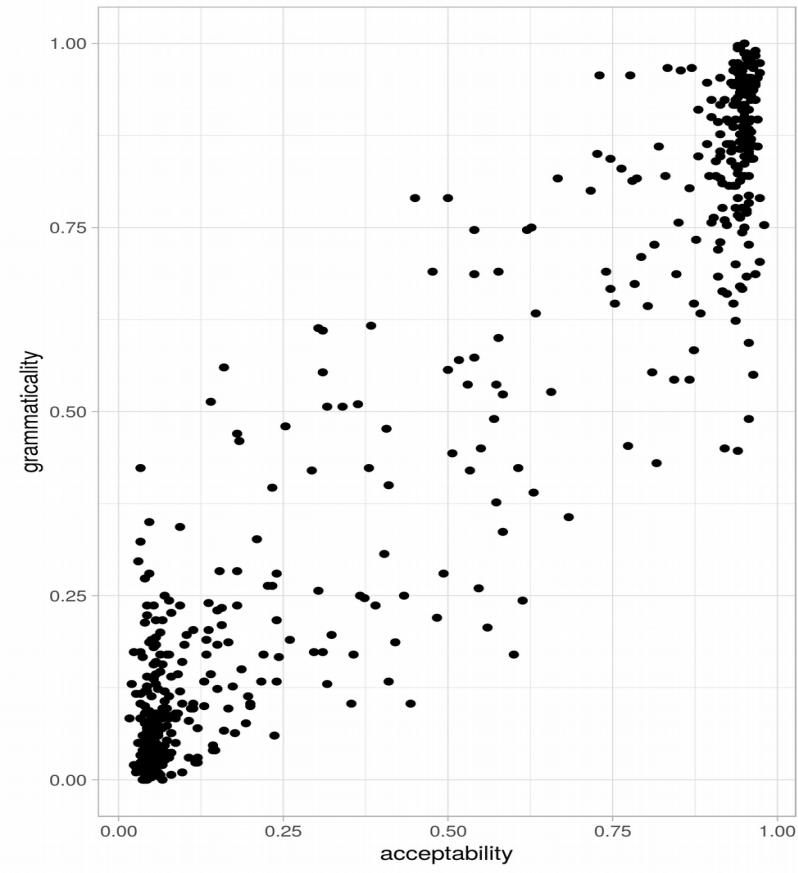
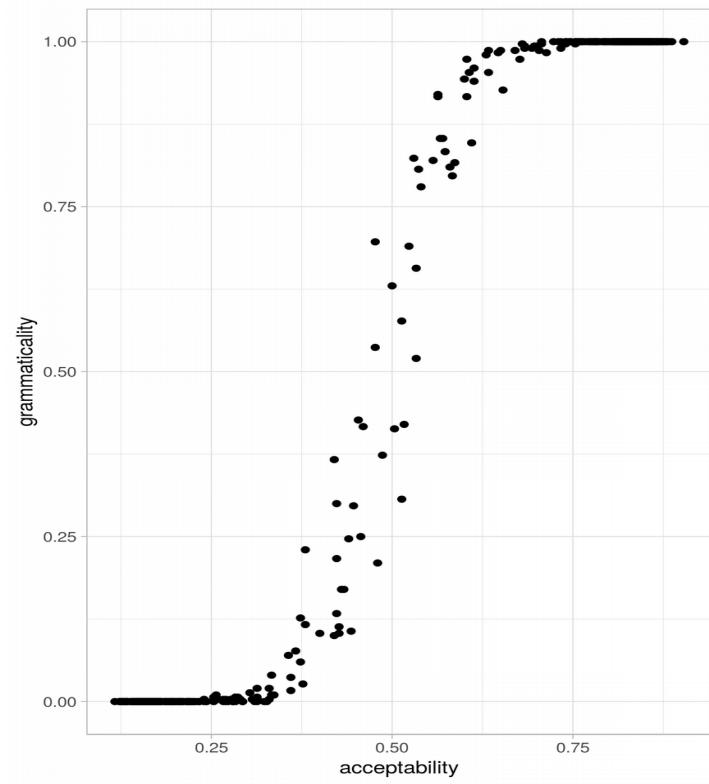
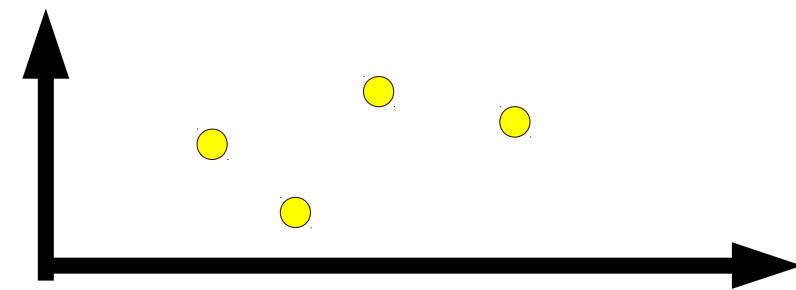
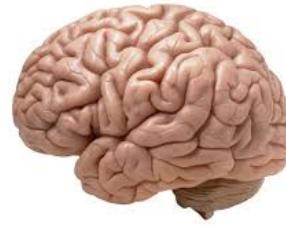
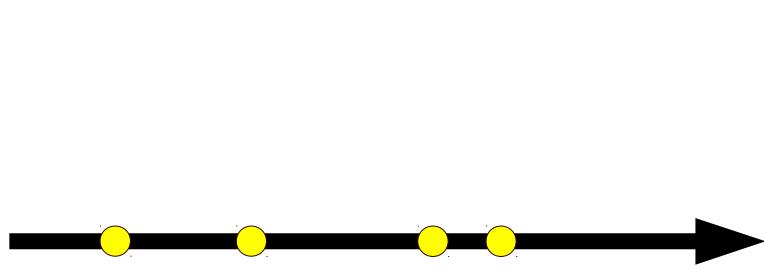


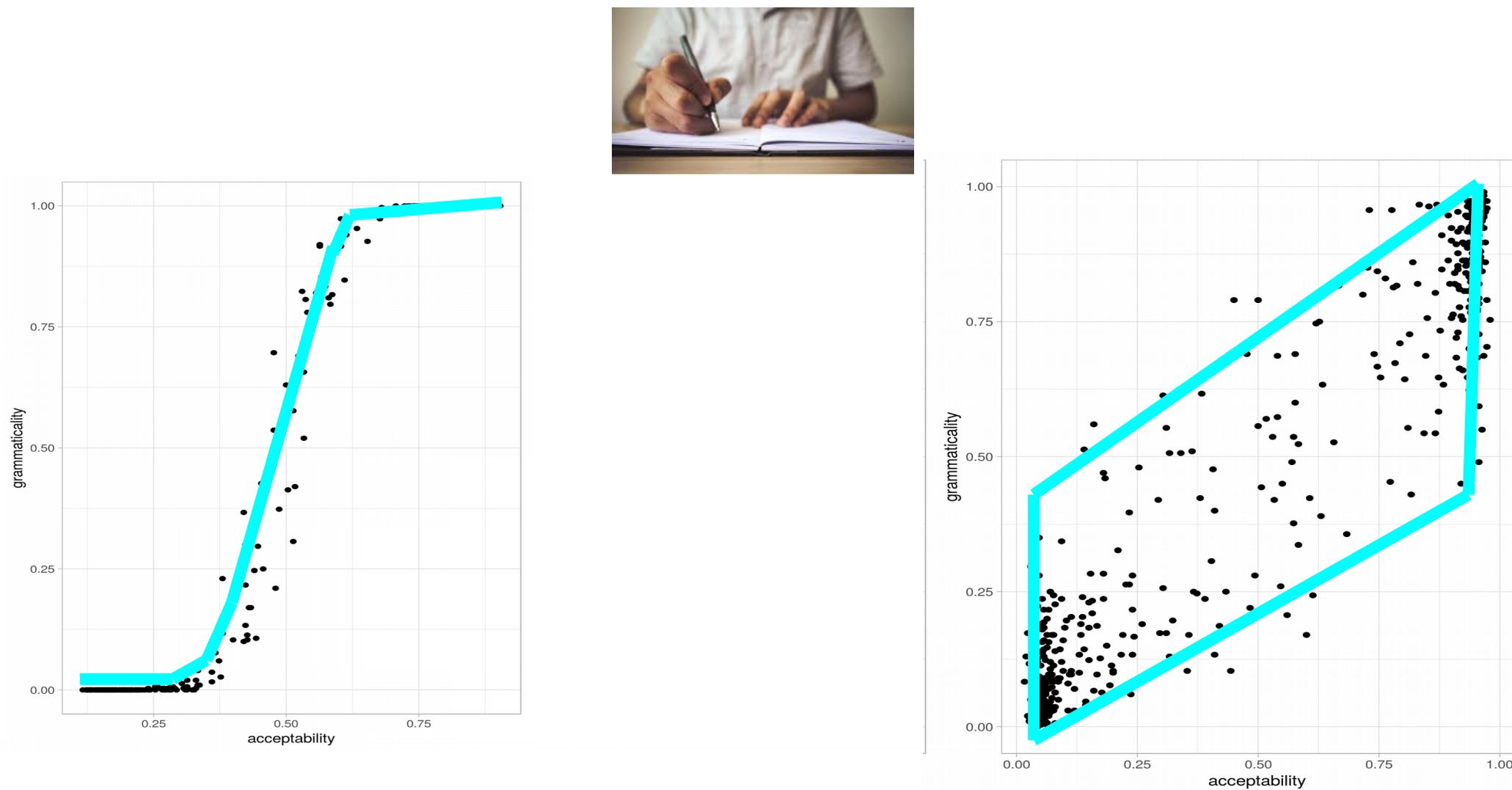
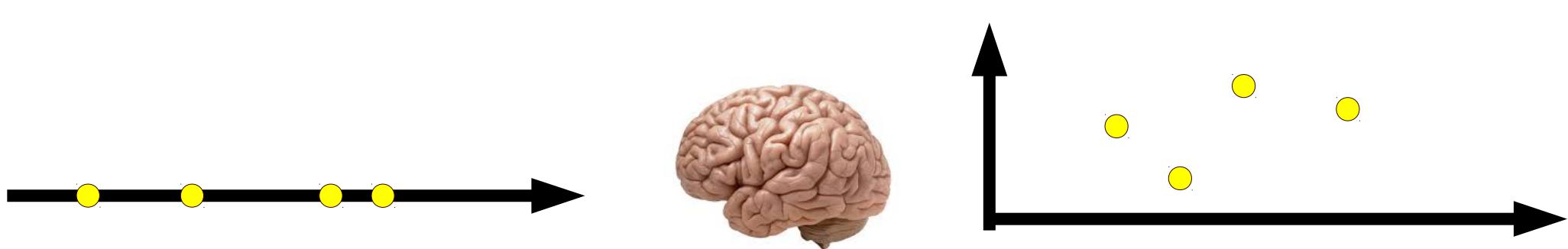












Stimuli

Stimuli

- Embedding

Stimuli

- Embedding
- Agreement attraction

Stimuli

- Embedding
- Agreement attraction
- Comparison illusion

Stimuli

- Embedding
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- Comparison illusion
- NPI illusion

Stimuli

- Embedding
- Agreement attraction
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- NPI illusion
- LI-author / crowd disagreements

This block of questions asks you to judge how acceptable a sentence is. Here “acceptable” means ‘well-formed’ or ‘natural-sounding’. The sentences here range in acceptability from very good to very poor, please use the rating scale to indicate where each sentence falls in this range.

Is this an *acceptable* English sentence?

The dancer who the singer that the bystander admired hurt tipped the doorman.



Highly
unacceptable



Unacceptable



Somewhat
unacceptable



Somewhat
acceptable



Acceptable



Highly
acceptable

This block of questions asks you to judge if a sentence is grammatical or not. It doesn't matter if the sentence is ugly or even makes no sense: please answer 'yes' if it is a valid construction in English or 'no' if it is not.

Is this a valid *grammatical* English sentence?

The reward doubled to help catch the thief.

Definitely
not grammatical

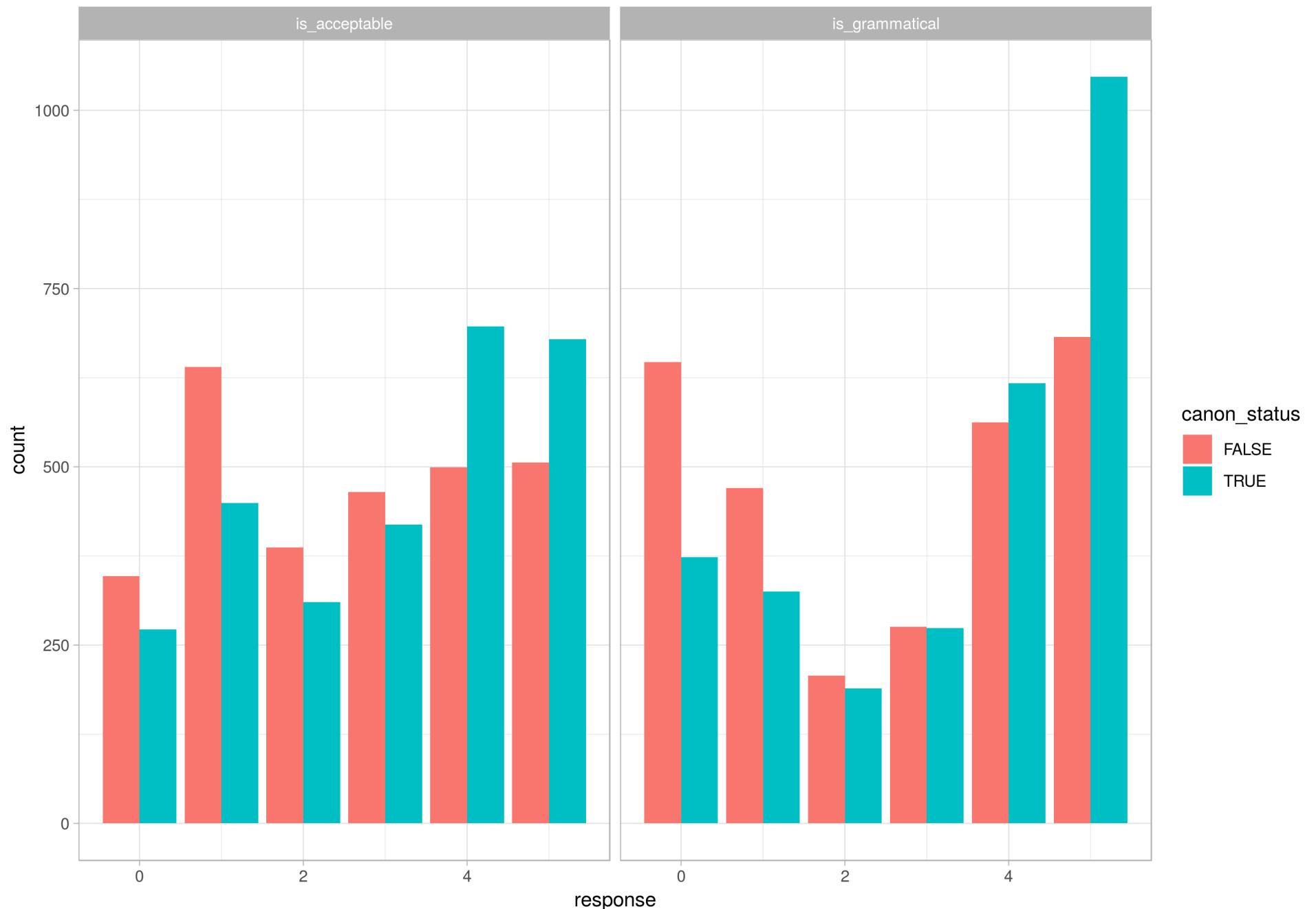
Probably
not grammatical

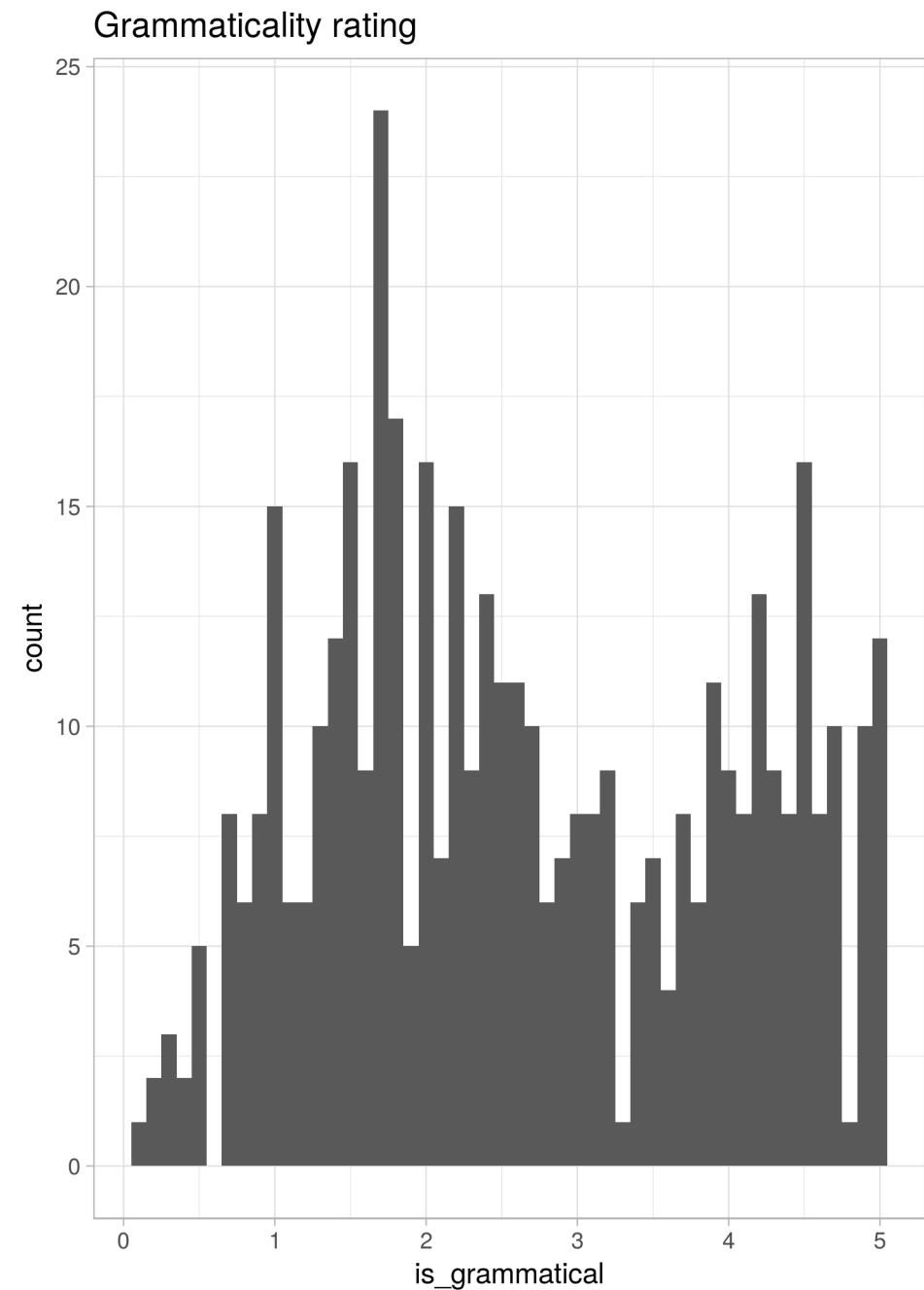
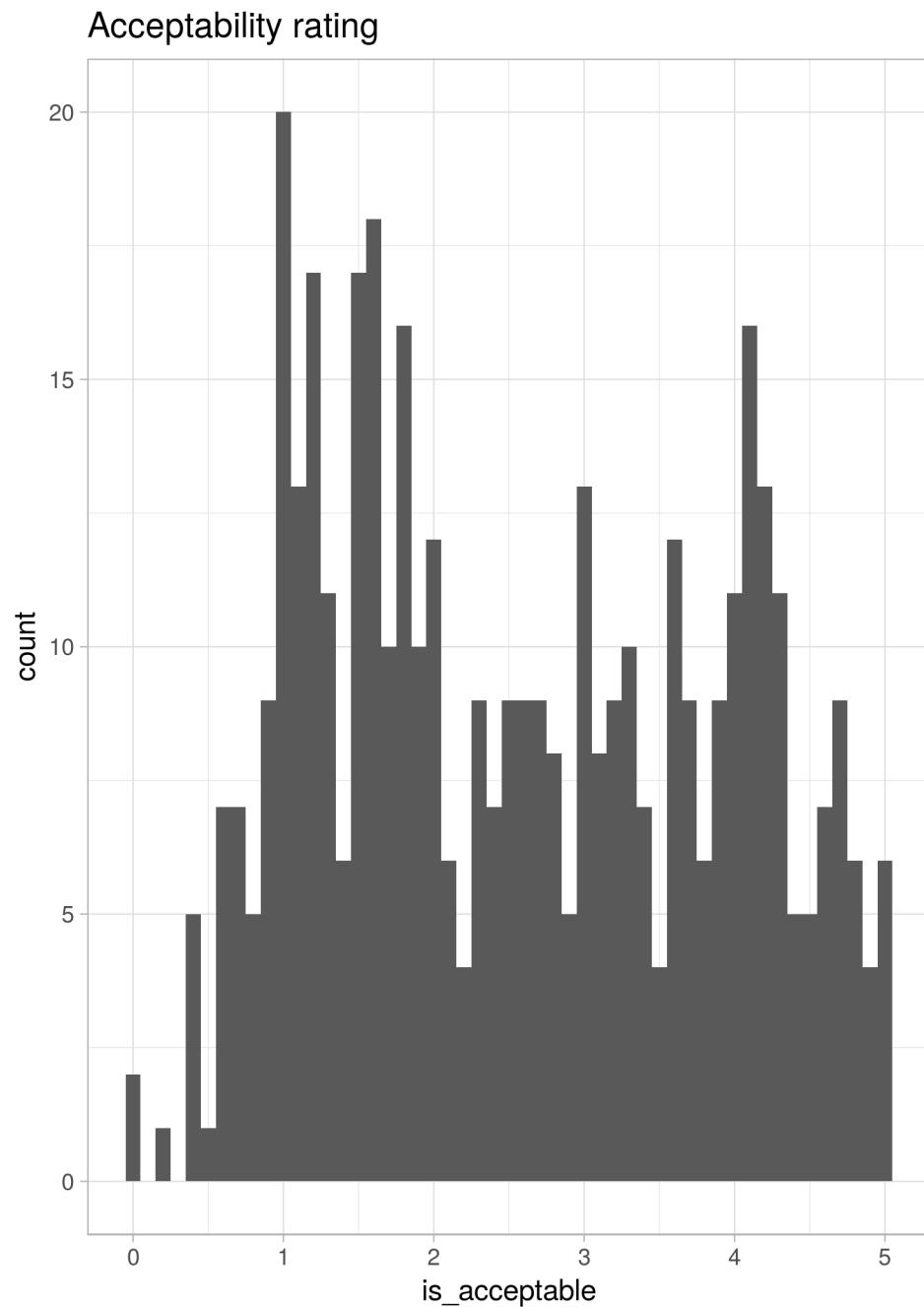
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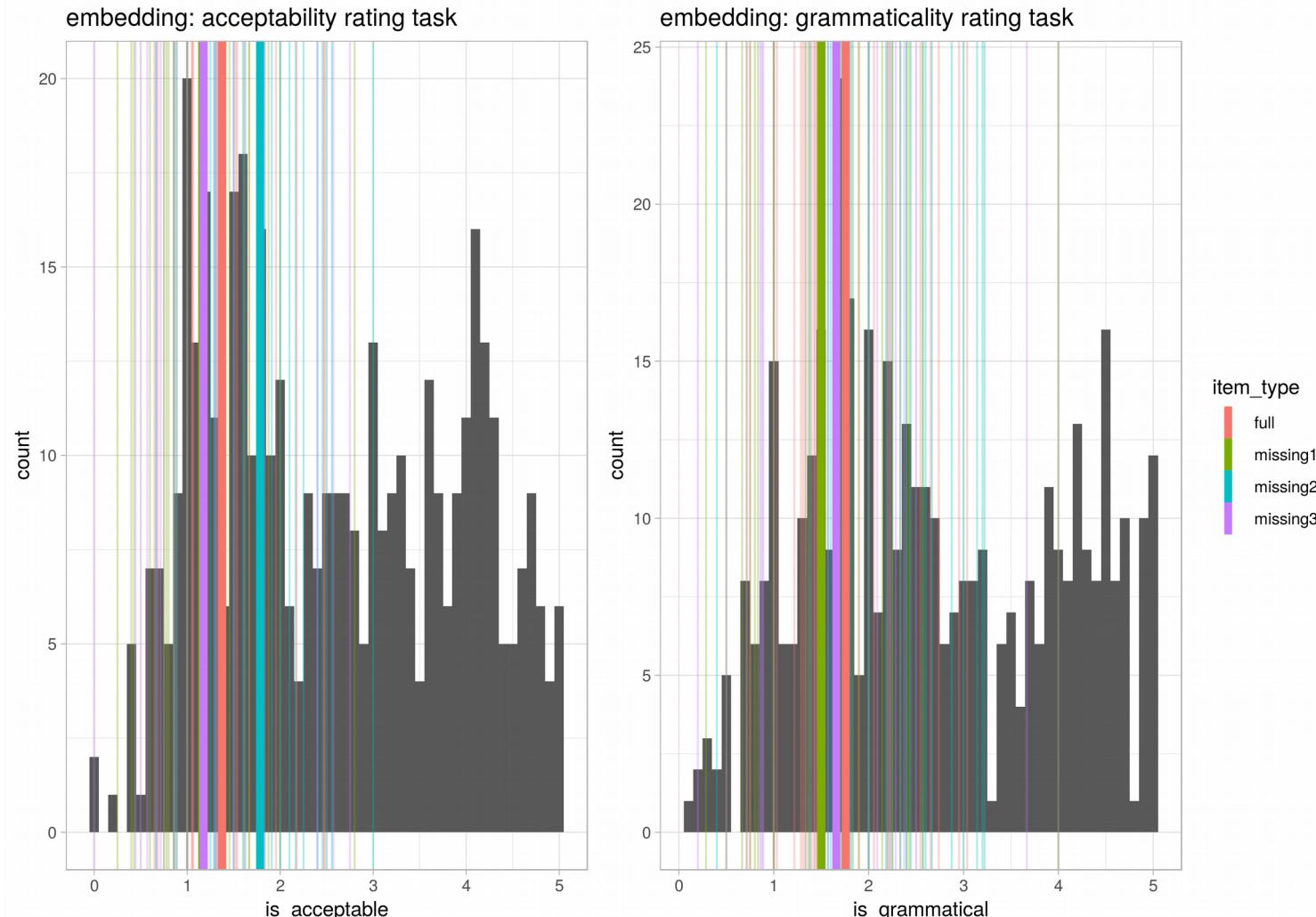
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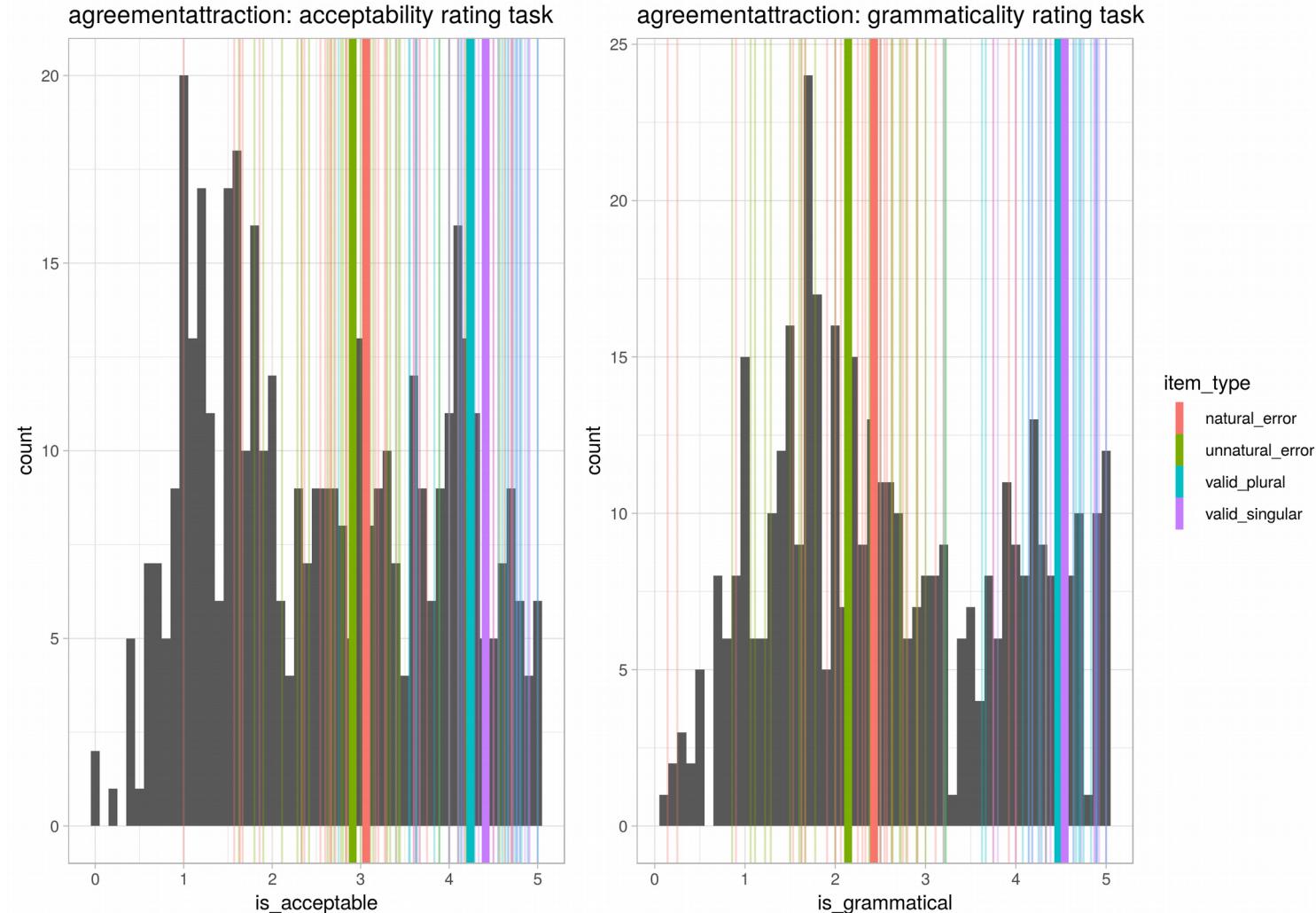




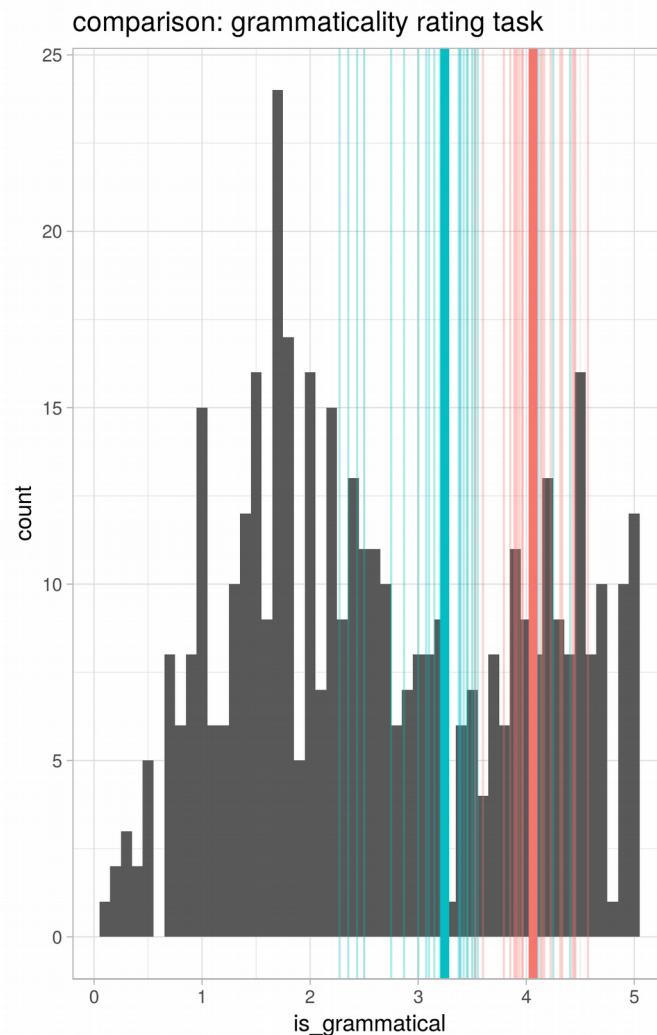
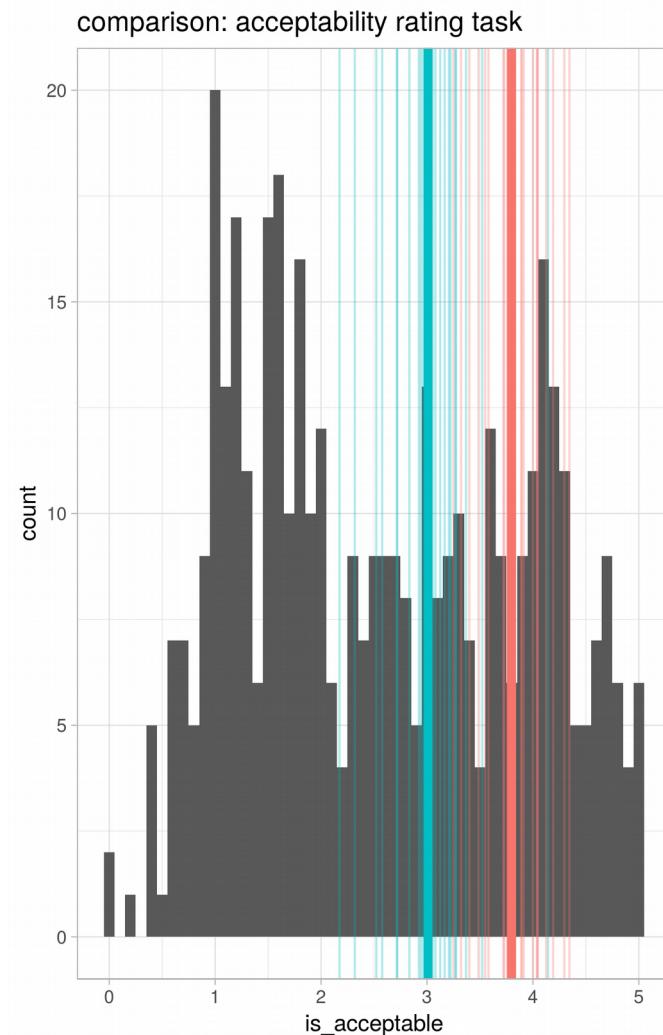
| | | |
|-----------|----------------|-------------------------------------------------------------------------------------------|
| Embedding | Full embedding | The paper the student the catalog confused was studying in the library was missing a page |
| | Missing V1 | The paper the student the catalog studying in the library was missing a page |
| | Missing V2 | The paper the student the catalog confused was missing a page |
| | Missing V3 | The paper the student the catalog confused was studying in the library. |



| | | |
|----------------------|-----------------|--------------------------------------------------|
| Agreement attraction | Valid Singular | The label on the bottle is quite hard to read |
| | Valid Plural | The labels on the bottles are quite hard to read |
| | Natural error | The label on the bottles are quite hard to read |
| | Unnatural error | The labels on the bottle is quite hard to read |



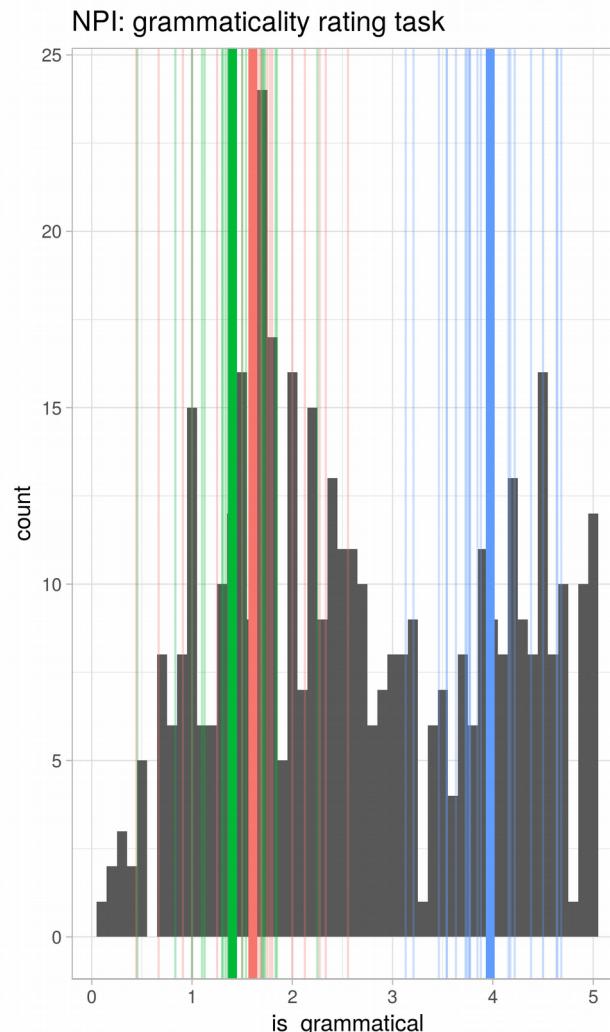
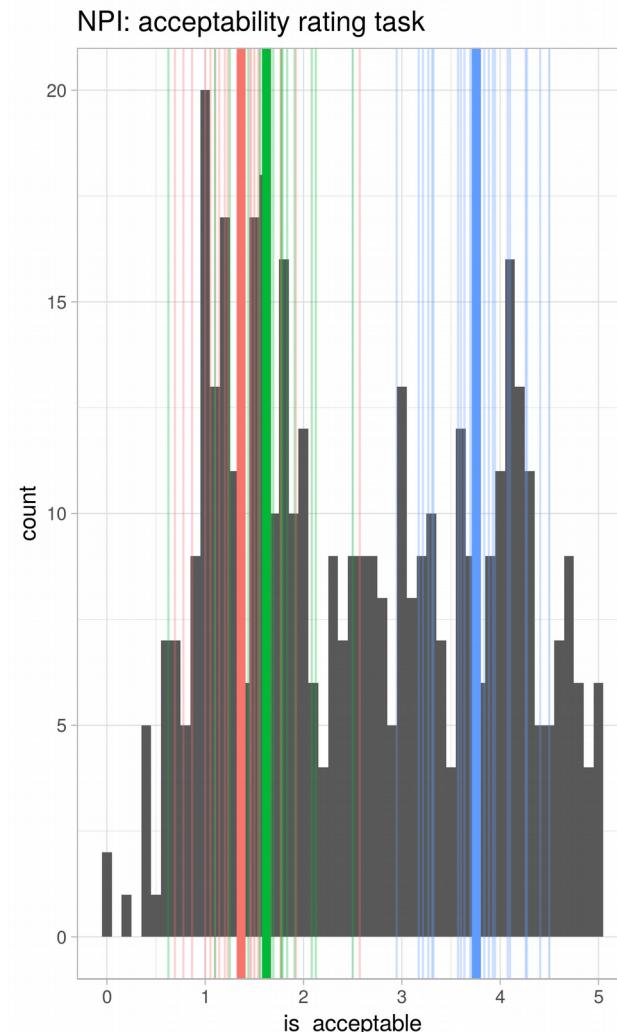
| | | |
|------------------------|----------|---------------------------------------------------------------------------------|
| Comparison Illusion | Illusion | At the party more seniors were talking with the professors than the junior was. |
| | Control | At the party more seniors were talking with the professors than juniors were. |



item_type

- control
- illusion

| | | |
|-----------------|---------------|-------------------------------------------------------|
| NPI Illusion | Valid | Few gamblers with a system have ever finished ahead. |
| | Partial match | A gambler without a system has ever finished ahead. |
| | Unlicensed | Most gamblers with a system have ever finished ahead. |



item_type

- Partial match NPI
- Unlicensed NPI
- Valid NPI

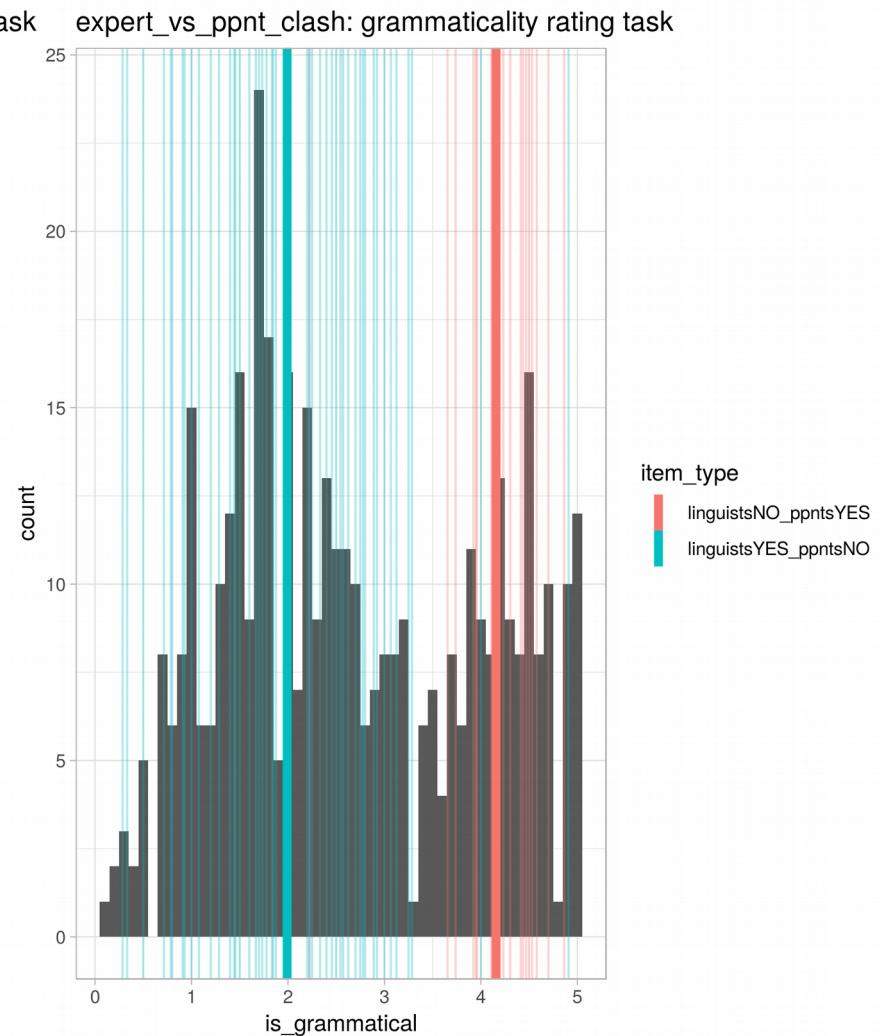
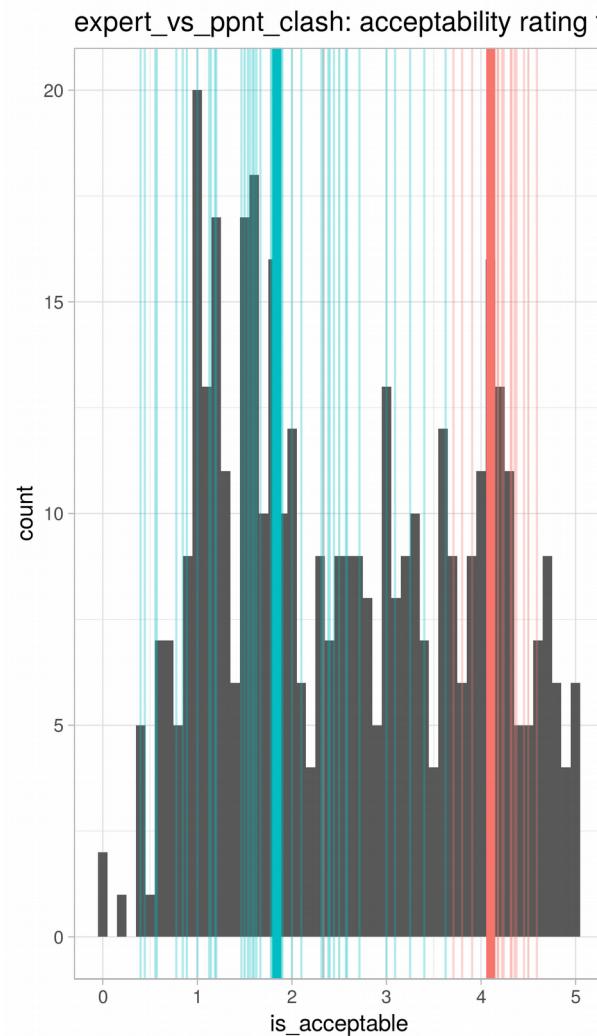
LI vs MTurk

LI-yes, Turk-no

The car was driven while being tired.

LI-no, Turk-yes

The game was played shoeless.



agreementattraction

comparison

embedding

expert_vs_ppnt_clash

NPI

3

2

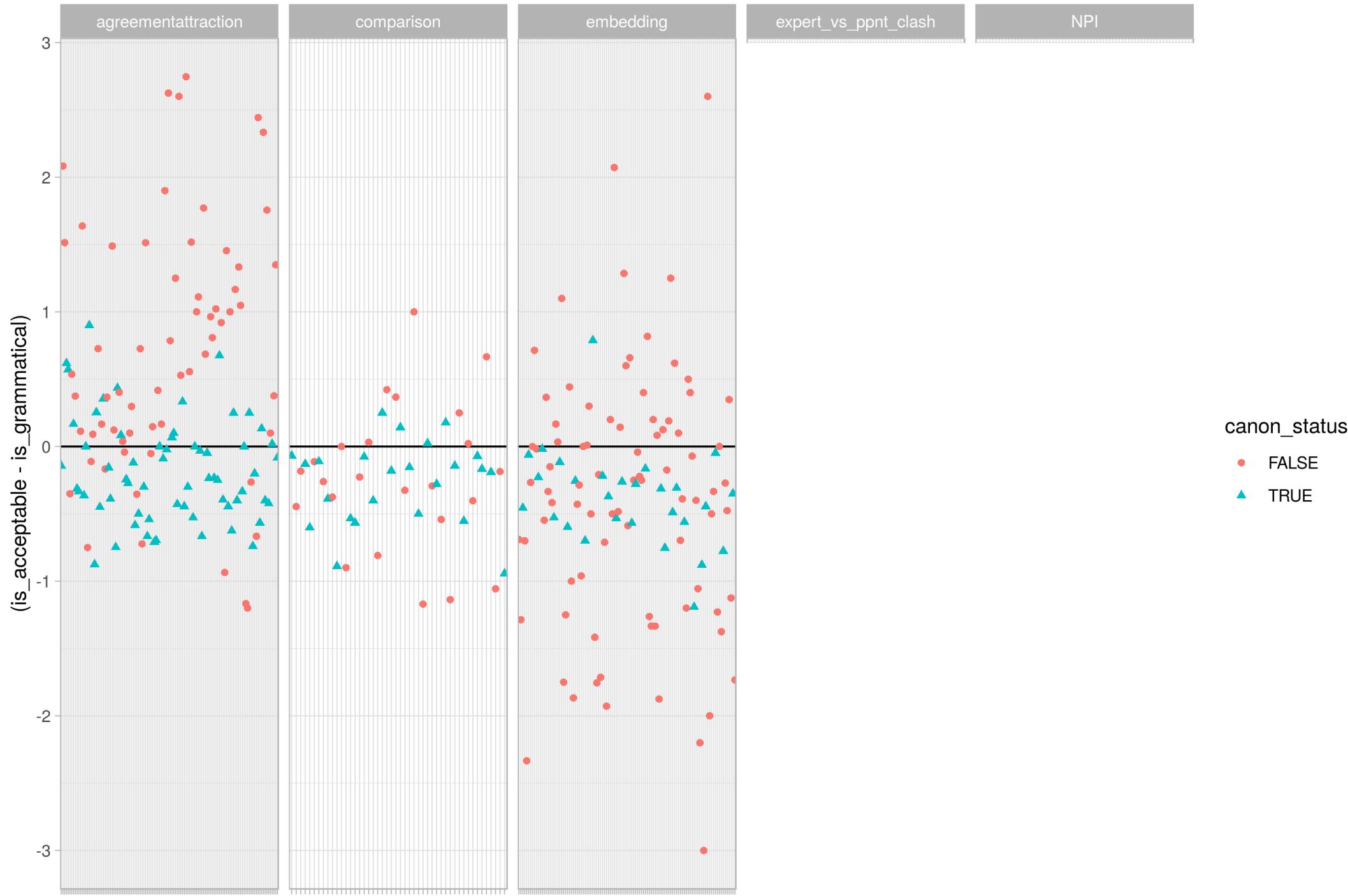


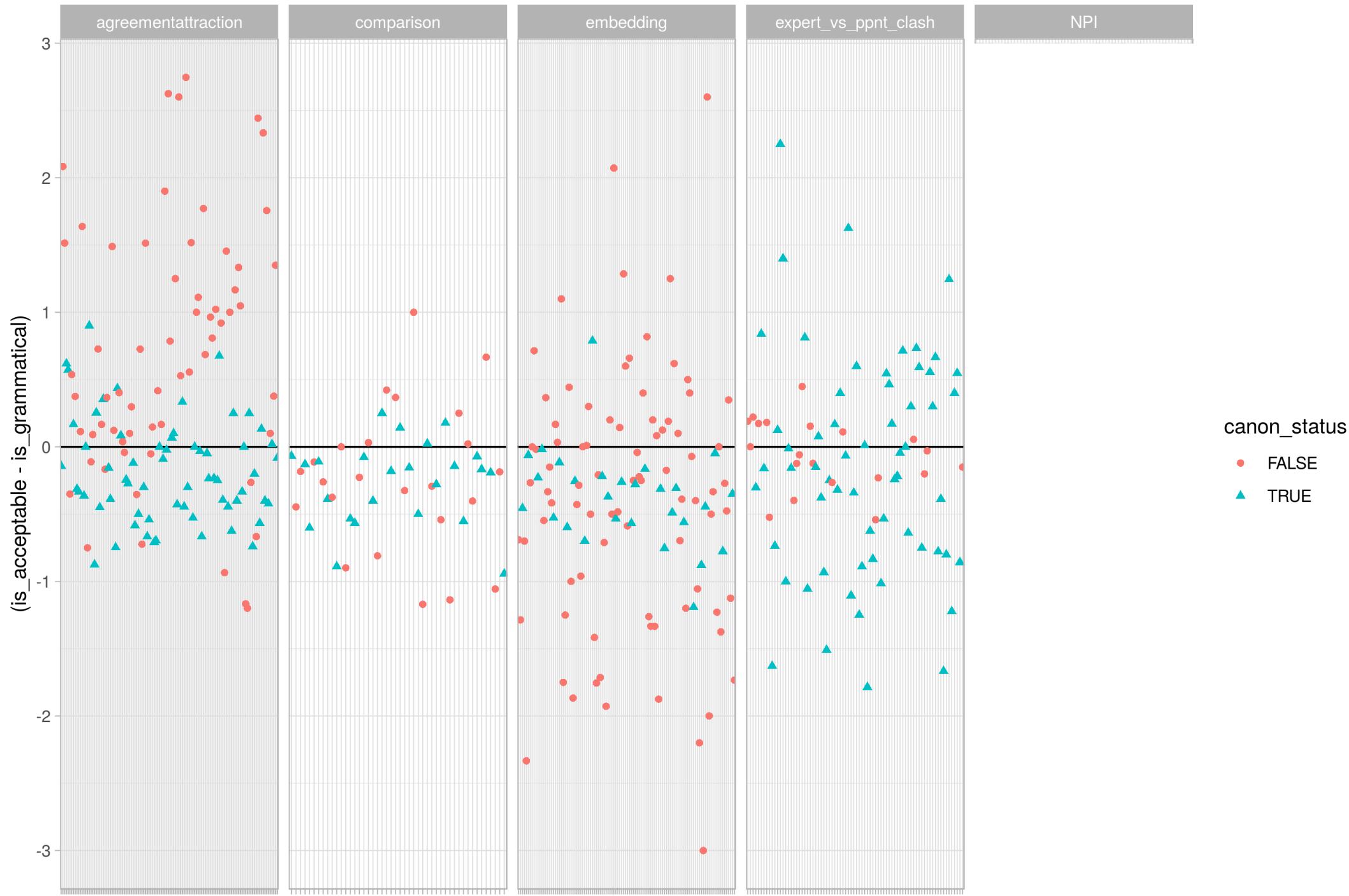
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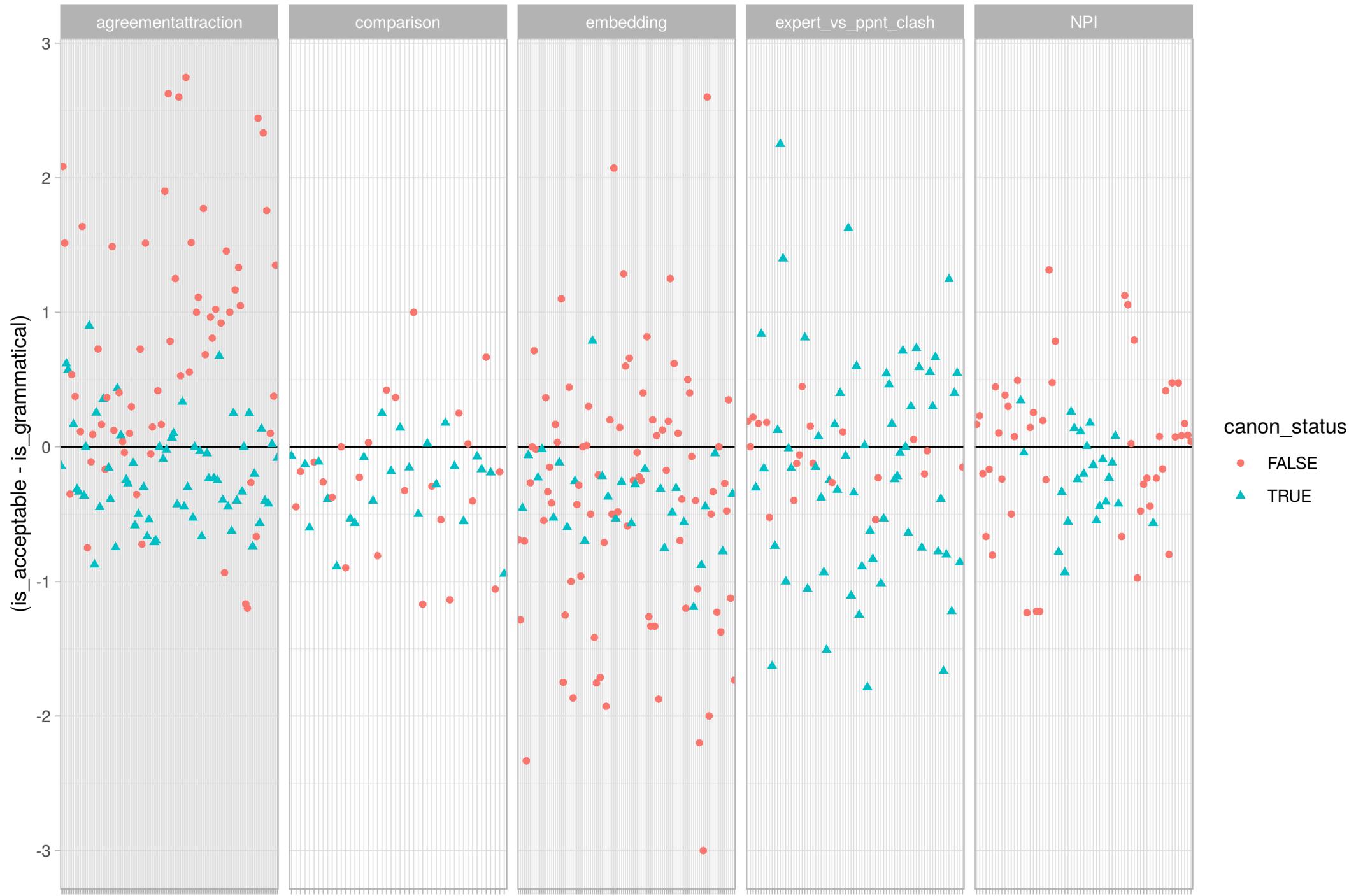
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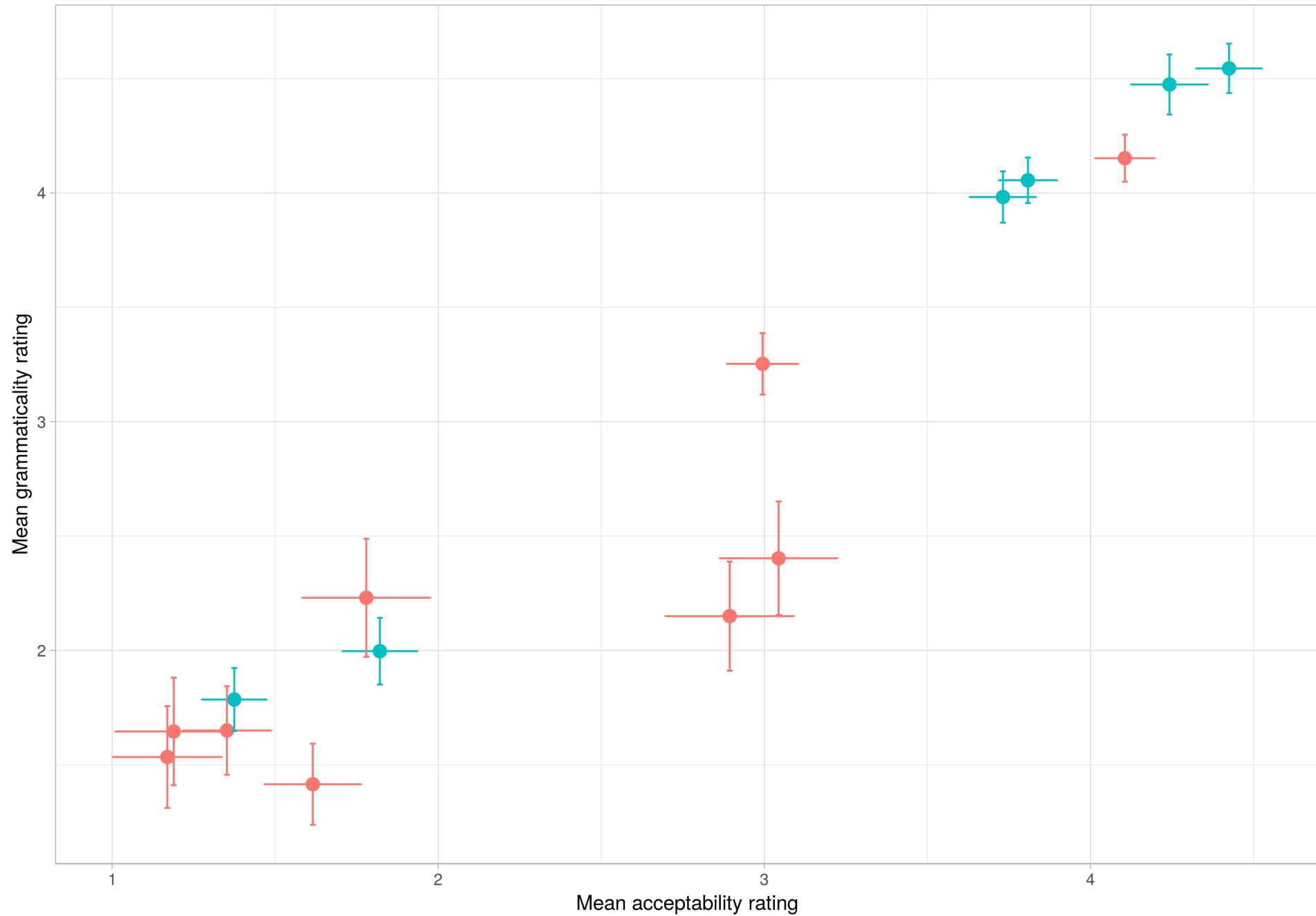


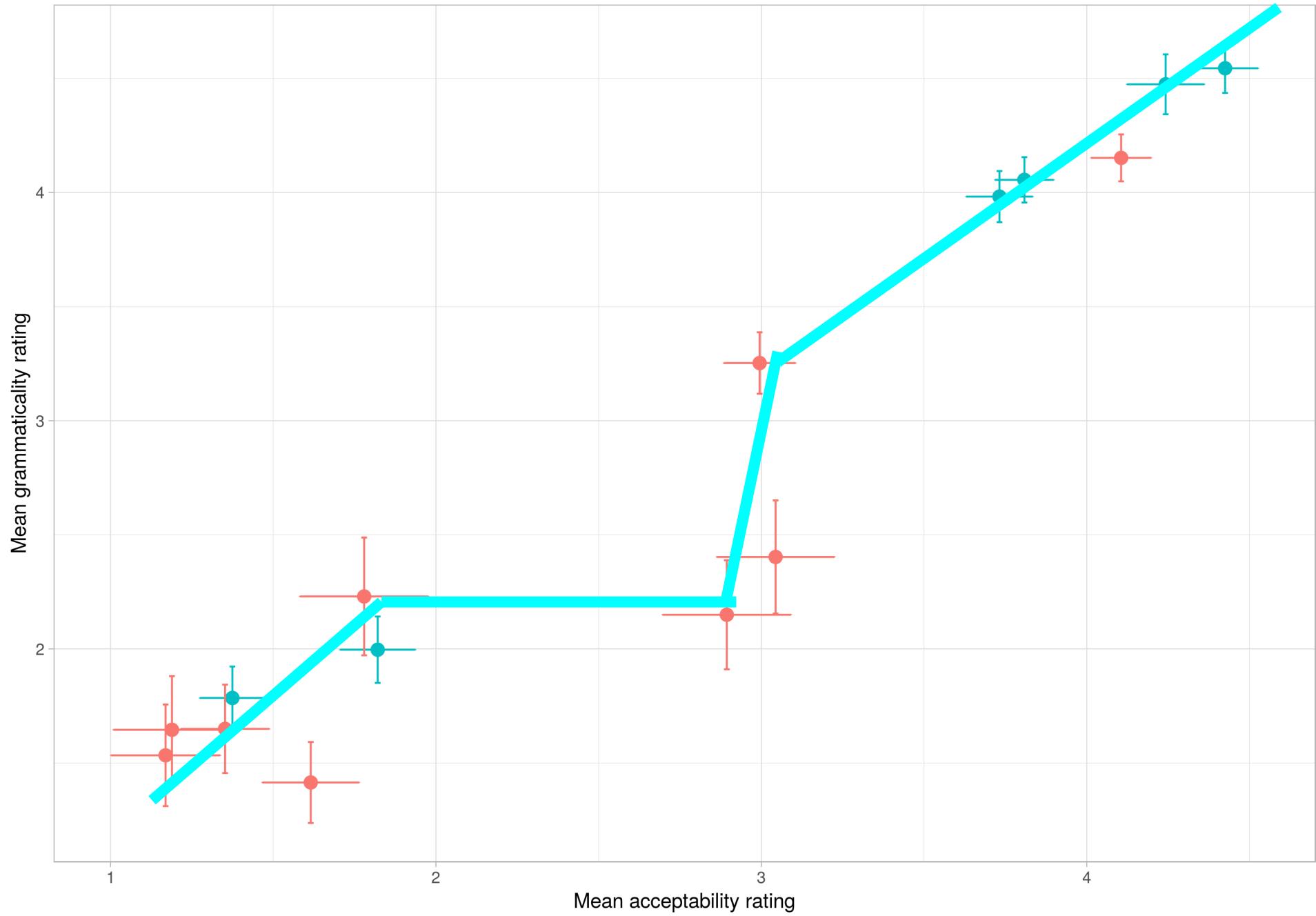


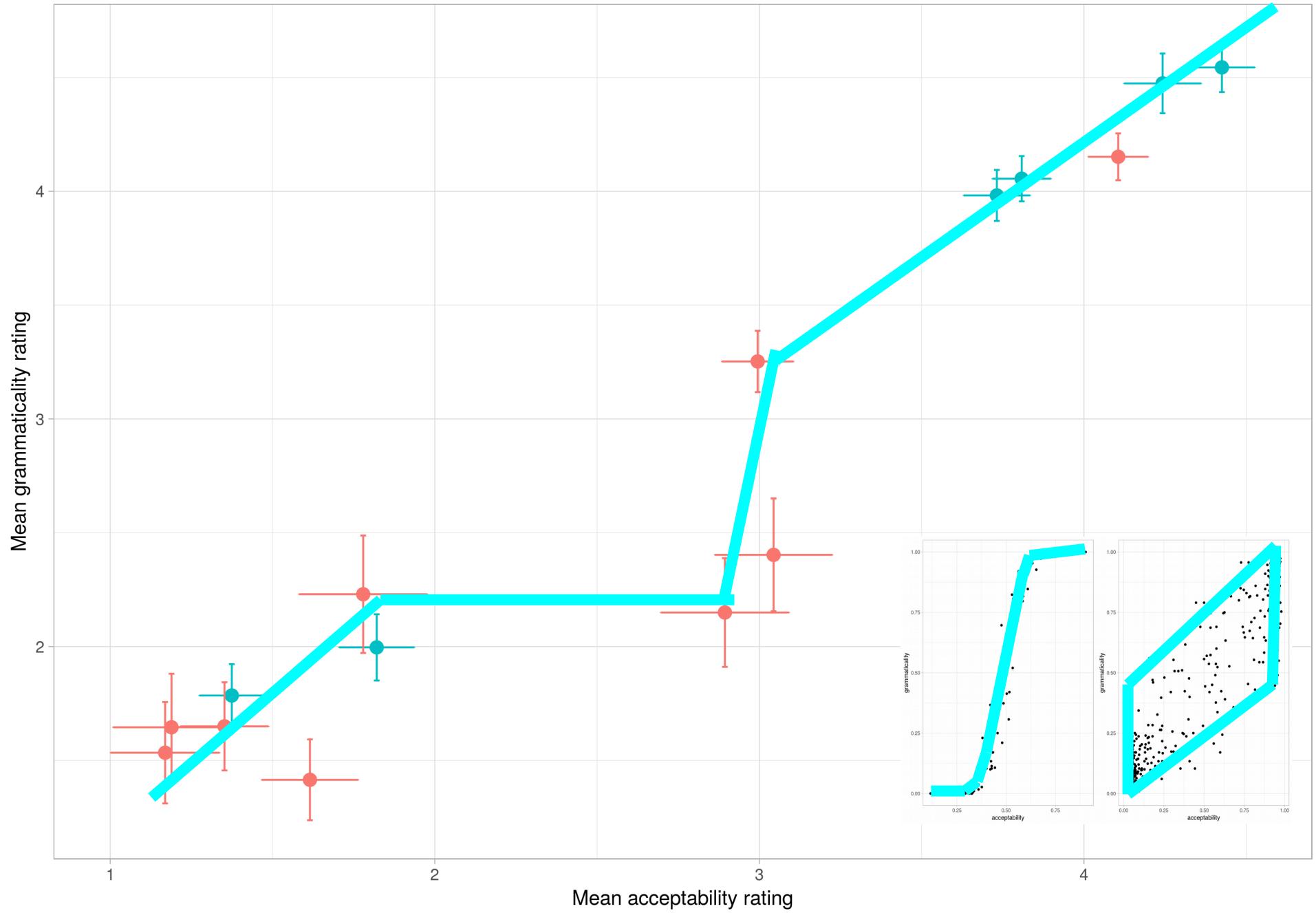


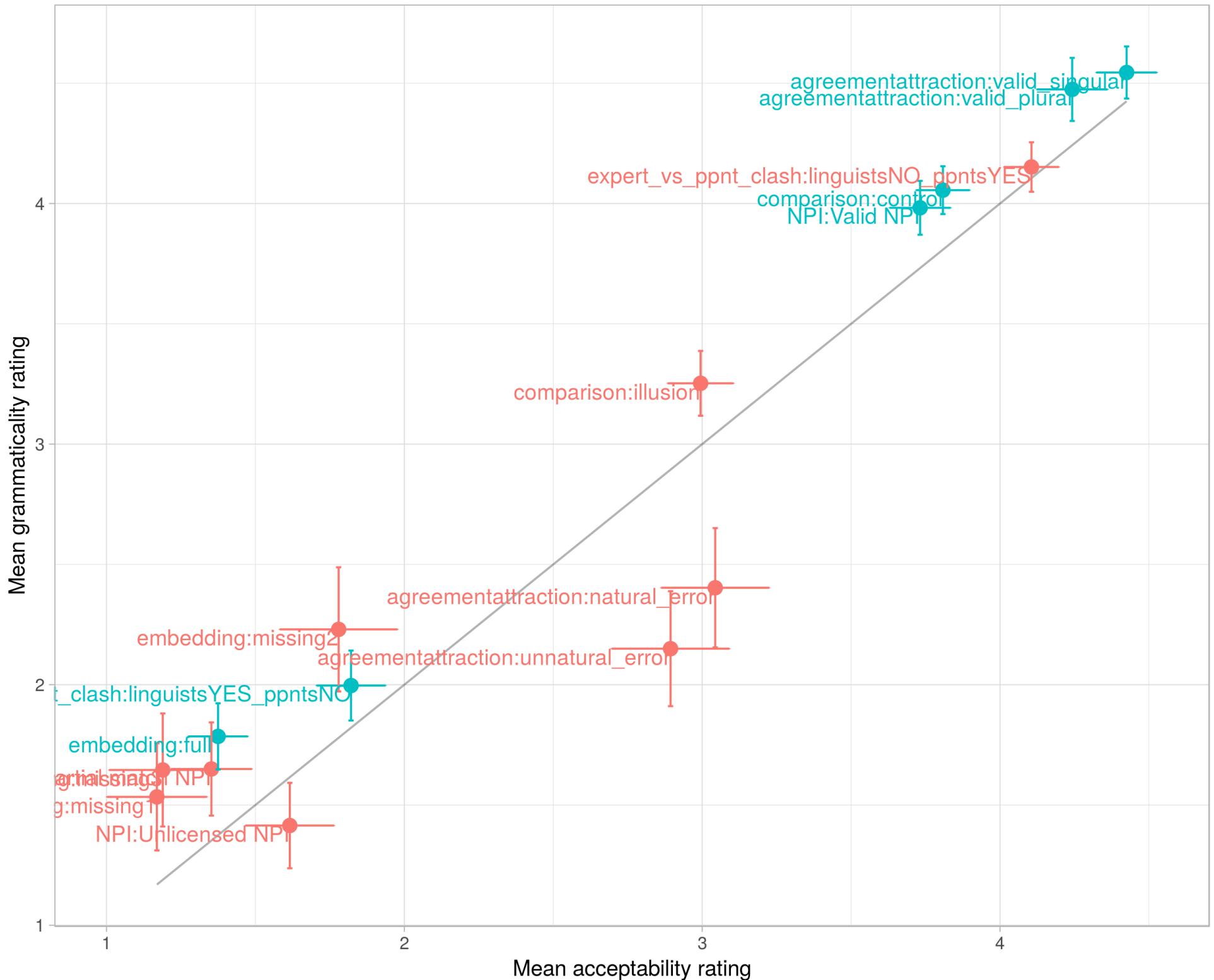












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