Experimental Linguistics Lab Assignment
PCIBEX Exercises & Final Project Proposal

Your name

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1 Mini-replication of Sprouse et al. (2016)

Follow along the tutorial in:

`https://github.com/sunwooj/course-expling/tree/master/PCIbex`

The sample javascript file (.js) is included in the packet. You can use it as a starting template to build your own experiments.

2 Using sounds: A demo experiment

Imagine an experiment in which we want to test whether the derivation of positive epistemic bias from Preposed Negation Questions (henceforth PNQs) is systematically modulated by focus prosody.

Stimuli We might want to include the following types of stimuli, broken down into 3 main experimental conditions, instantiated as 3 items (brackets [ ] represent focus prosody):

Items	Conditions	Stimuli
1	PNQ-NPF	[민우가] 이모를 부르지 않았니?
1	PNQ-POF	민우가 이모를 부르지 [않았니]?
1	PQ-NPF	[민우가] 이모를 불렀니?
2	PNQ-NPF	유민이가 [월요일에] 오지 않았니?
2	PNQ-POF	유민이가 월요일에 오지 [않았니]?
2	PQ-NPF	유민이가 [월요일에] 왔니?
3	PNQ-NPF	유라가 매미한테 [물리지] 않았니?
3	PNQ-POF	유라가 매미한테 물리지 [않았니]?
3	PQ-NPF	유라가 매미한테 [물렸니]?

NPF stands for non-polarity focus; POF stands for polarity focus. PQ stands for polar questions. The sound files corresponding to each item * condition pairing can be found under the focused-pnqs > sounds folder.

Hypothesis Based on native speaker intuitions, we may formulate the following hypothesis: PQs don't give rise to any positive epistemic bias. PNQs do give rise to positive epistemic bias, but polarity focus weakens the perceived bias.

Experiment design

1. **The general task** Participants rate the perceived epistemic bias of the speaker after hearing the auditory stimuli
2. **Further details of the design**
    - Dependent variable(s): Speaker certainty/bias ratings
    - Conditions: PNQ-NPF, PNQ-POF, PQ-NPF

Assignment I Include the url of the completed experiment on focused PNQs.

```
https://your-focused-pnq-experiment-url
```

3 Using images: Jasbi and Frank (2017)

Objective Create a mini-adaptation of Jasbi and Frank (2017). The experiment should have the following properties:

- It has a mock consent page at the beginning, with a checkbox
- A given participant sees each of the 6 conditions (2 types of pictures * 3 types of quantificational sentences) once, i.e., a total of 6 target trials
- The item * condition pairing is determined by a latin-square type pseudo-randomization

The image files can be found under the scalar-implicature > images folder. You will need to create a .csv as well.

Assignment II Include the url of the completed experiment on scalar implicatures.

```
https://your-scalar-implicature-experiment-url
```

4 Your final project proposal

The proposal should be 1–2 pages in length, using the default setting of the *article* document class in LaTeX. Please include the following information:

A brief review of the previous literature Do some research on the background literature associated with your research topic. Make a .bib file of key references, and briefly summarize the theoretical landscape, making sure to cite the key references.

Motivation for the current study Identify a gap or an unresolved issue that you would like to address in your project.

Hypothesis In 1-2 sentences, formulate the main hypothesis you would like to test in this experiment.

Experiment design

1. **The general task** In 1-2 sentences, briefly describe the type of task that participants will engage with in your experiment.
2. **Further details of the design** What are the key dependent variables you will measure? What are the factors being manipulated? What are the levels? Is the experiment between-subjects? Within-subjects? Mixed?
    - Dependent variable(s):
    - Factors & levels:
    - Other details:

Predictions In 1-2 sentences, formulate the predictions you have.

Questions List any questions you have on designing and implementing the experiment; I'll try to address them as much as possible when I go over your proposal.

References

Jasbi, M. and M. C. Frank (2017). The semantics and pragmatics of logical connectives: Adults' and children's interpretations of and and or in a guessing game. In *Proceedings of Cognitive Science*.

Sprouse, J., I. Caponigro, C. Greco, and C. Cecchetto (2016). Experimental syntax and the variation of island effects in English and Italian. *Natural Language & Linguistic Theory 34*(1), 307–344.