

Fully Factorial Experiments on Syntactic Issues: Part B -- Practice

International Workshop on
Grammar & Evidence

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National Chung Cheng University

The Problem

- | | | | |
|-----------|---|-----------|-------|
| 37 | External jacks plug of but are next at the back cover plate. | | after |
| 38 | Some books about a newspaper usually is on the desk. | 68 | Some |
| 39 | Some Russian families via a youth website significantly help Americans adopt Russian orphans. | | deni |
| 40 | She isn't out to "catch" him. | 69 | Who |
| 41 | The also expand significantly northwestward into, besieging Vienna. | 70 | Iron |
| 42 | Who claimed that the resulting conflict between Serbia quickly escalated into World War I? | 71 | NAI |
| 43 | Producer is two perfect actors to play unlikely couple. | 72 | Some |

The Problem

| | Script A | Script B | Script C | Script D |
|-------------|-------------|-------------|-------------|-------------|
| Token Set 1 | A | B | C | D |
| Token Set 2 | B | C | D | A |
| Token Set 3 | C | D | A | B |
| Token Set 4 | D | A | B | C |

Goals of counterbalancing

- For participants:
 - Every participant judges equal numbers of items in each condition.
 - No participant judges more than one variant of each token set.
- For token sets:
 - Every variant of every token set is judged by the same number of unique participants.

The Solution -- Part I

| | Script A | Script B | Script C | Script D |
|-------------|-------------|-------------|-------------|-------------|
| Token Set 1 | A | B | C | D |
| Token Set 2 | B | C | D | A |
| Token Set 3 | C | D | A | B |
| Token Set 4 | D | A | B | C |

Fillers

40 She isn't out to "catch" him.

41 The also expand significantly

46 Marian's the subtlety is strength her all of through the film
the movie.

47 Destruction are his only

Blocking

Do participants behave differently (from any relevant point of view) when they are tired and bored, and have already seen 100 of your silly sentences, as compared to when they are fresh, interested, and uncertain about what's up?

Building questionnaires in Excel

Write the materials

Organize them

Coding/Decoding the Data

'High' Tech

- How to build text formulas
- How to do 'watch me' programming in Excel