ELICIT pipeline task overview

Hypothesis  
H: IE pipeline (green) markup aids decision making (as improved speed/accuracy in determining who/what/where/when in ELICIT scenarios)

# Design

IVs: with/without markup, (question)

DVs: reaction time, accuracy

+SUS

Each participant sees 4 scenarios (2 plain, 2 with markup); for each scenario they answer 4 questions: Who, What, Where, When.

* The 4 scenarios are randomized (any order possible, can appear with or without markup), with/without markup blocked

|  |  |
| --- | --- |
| Plain | Markup |
| Training example: | Training example: |

|  |  |  |
| --- | --- | --- |
| Markup | Scenario (pick 2, no replacement) | Question |
| Without markup | Scenario 1 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
|  | Scenario 2 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
|  | Scenario 3 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
|  | Scenario 4 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
| With markup | Scenario 1 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
|  | Scenario 2 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
|  | Scenario 3 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |
|  | Scenario 4 | Who |
|  |  | What |
|  |  | Where |
|  |  | When |

# Analysis

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Accuracy | ~ | Markup | | \* | Question | \* | Scenario | + | (1|Worker) |  |  |
| 0/1 |  | 0/1 | |  | Who/What/Where/When |  | 1/2/3/4 |  | … |  |  |
|  |  | |
|  |  | |
| RT | ~ | Markup | | \* | Scenario | + | (1|Worker) |  |  |  |  |
| 0 – 20\*60sec |  | 0/1 | |  | 1/2/3/4 |  | … |  |  |  |  |
|  |  |  | |  |  |  |  |  |  |  |  |
|  |  | Markup | | \* | Question |  | Scenario |  | Order |  | SUS |

Jon says:

* Try ANOVA with average across W^4 score for each scenario
* Get Heng as a coauthor? (coauthored papers are big for CTA)
* Try scenario, Qs as random?