

Supplementary materials 1: Model formulas

This file contains the formulas of the final mixed-effects models deployed to compute effects on accuracy in comprehension, accuracy in production and automatization in comprehension in R.

Accuracy in comprehension:

```
glmer (ACC ~ (SESSION + 1 | PART) + (DECL + PROC + SESSION + 1 | ITEMNAME) + PROC +  
DECL * SESSION, data = comprehension, family = binomial, glmerControl (optimize = "bobiqua"))
```

Total valid cases: 9880

Accuracy in production:

```
glmer (ACC ~ (DECL + PROC + SESSION + 1 | PART) + (DECL + PROC + SESSION + 1 | ITEMNAME) + DECL + PROC * SESSION, data = production, family = binomial, glmerControl (optimize = "bobiqua"))
```

Total valid cases: 9786

Automatization:

```
lmer (logCV ~ (DECL + PROC + SESSION + 1 | PART) + (DECL + PROC +  
SESSION + 1 | ITEMNAME) + DECL * PROC * SESSION, data = automdata, REML = TRUE))
```

Total valid cases: 7773

Supplementary materials 2

This file contains three figures illustrating the plot of the CV and RT variables across blocks and the graph of the correlation between CV and RT.

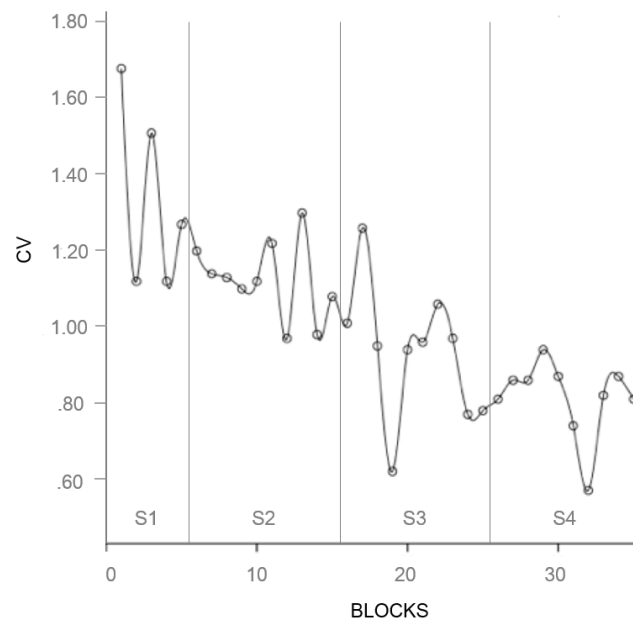


Figure S2.1. CV Distribution Across Block and Sessions (S1-S4).

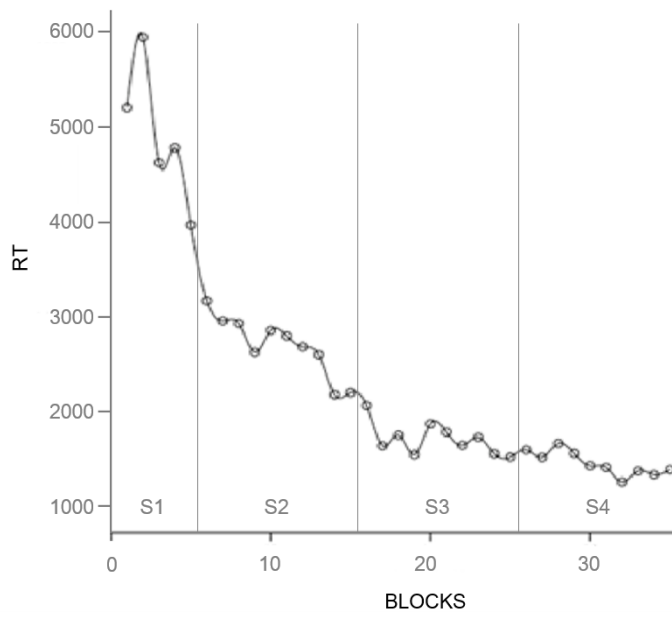


Figure S2.2. RT Distribution Across Blocks and Sessions (S1-S4).

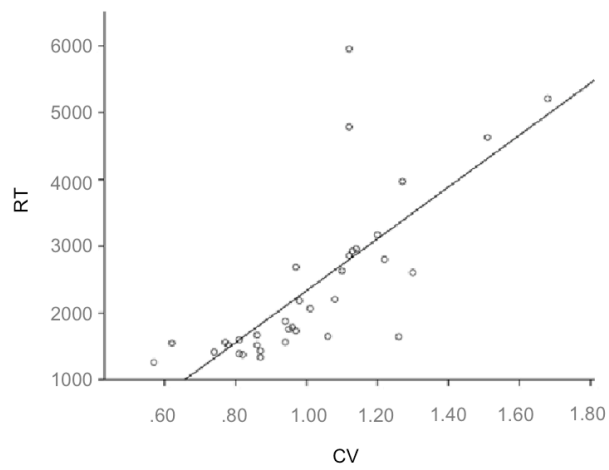


Figure S2.3. CV/RT Correlation (Block Scores).