

SUPPLEMENTARY MATERIAL to accompany Parker & Phillips “Linguistic illusions and the format of hierarchical encodings in memory”.

## Schedule of constituent creation times and retrievals for the model

### 1. NPI manipulation (ever vs. any)

#### Ever conditions

[No authors]<sub>NP1</sub> that [the critics]<sub>NP2</sub> [recommended]<sub>VP1</sub> [have]<sub>VP2</sub> [ever]<sub>NPI</sub> ...

**Table 1.** Constituent creation times and feature composition for *ever* conditions.

	NP1	NP2	VP1	VP2	NPI
Time	1083	2657	3225	3831	4381
Category	NP	NP	VP	VP	ADV
Negation	+/-	+/-	-	-	NIL
Number	pl	Pl	NIL	NIL	NIL
C-Command	+	-	-	+	+
Level of Embedding	1	2	2	1	1

**Table 2.** Schedule of retrievals and cue sets for *ever* conditions: R1 = retrieval of NP2 for VP1 subject-verb binding; R2 = retrieval of NP1 for relative clause gap filling; R3 = retrieval of NP1 for VP2 subject-verb agreement; R4 = critical NPI retrieval.

	R1:NP2	R2:NP1	R3:NP1	R4:NPI
Time	3425	3425	4031	4581
Category	NP	NP	NP	NP
Negation	NIL	NIL	NIL	+
Number	NIL	NIL	pl	NIL
C-Command	-	+	+	+
Level of Embedding	2	1	1	NIL

#### Any conditions

[No authors]<sub>NP1</sub> that [the critics]<sub>NP2</sub> [recommended]<sub>VP1</sub> [have]<sub>VP2</sub> [received]<sub>VP3</sub> [any]<sub>NPI</sub> ...

**Table 3.** Constituent creation times and feature composition for *any* conditions.

	NP1	NP2	VP1	VP2	VP3	NPI
Time	1083	2657	3225	3831	4399	4949
Category	NP	NP	VP	VP	VP	ADV
Negation	+/-	+/-	-	-	-	NIL
Number	pl	Pl	NIL	NIL	NIL	NIL
C-Command	+	-	-	+	+	+
Level of Embedding	1	2	2	1	1	1

**Table 4.** Schedule of retrievals and cue sets for *any* conditions: R1 = retrieval of NP2 for VP1 subject-verb binding; R2 = retrieval of NP1 for relative clause gap filling; R3 = retrieval of NP1 for VP2 subject-verb binding; R4 = retrieval of NP1 for VP3 subject-verb binding; R5 = critical NPI retrieval.

	R1:NP2	R2:NP1	R3:NP1	R4:NP1	R5:NPI
Time	3425	3425	4031	4599	5149
Category	NP	NP	NP	NP	NP
Negation	NIL	NIL	NIL	NIL	+
Number	NIL	NIL	pl	NIL	NIL
C-Command	-	+	+	+	+
Level of Embedding	2	1	1	1	NIL

## 2. Clausal manipulation (main vs. embedded clause)

### Main clause ever

[No journalists]<sub>NP1</sub> that [the editors]<sub>NP2</sub> [recommended]<sub>VP1</sub> for [the assignment]<sub>NP3</sub> [ever]<sub>NPI</sub> ...

**Table 5.** Constituent creation times and feature composition for main clause *ever* conditions.

	NP1	NP2	VP1	NP3	NPI
Time	1083	2657	3225	4810	5360
Category	NP	NP	VP	NP	ADV
Negation	+/-	+/-	-	-	NIL
Number	pl	pl	NIL	sg	NIL
C-Command	+	-	-	-	+
Level of Embedding	1	2	2	2	1

**Table 6.** Schedule of retrievals and cue sets for main clause *ever* conditions: R1 = retrieval of NP2 for VP1 subject-verb binding; R2 = retrieval of NP1 for relative clause gap filling; R3 = critical NPI retrieval.

	R1:NP2	R2:NP1	R3:NPI
Time	3425	3425	5560
Category	NP	NP	NP
Negation	NIL	NIL	+
Number	NIL	NIL	NIL
C-Command	-	+	+
Level of Embedding	1	2	NIL

### Embedded clause ever

[No journalists]<sub>NP1</sub> that [the editors]<sub>NP2</sub> [recommended]<sub>VP1</sub> for [the assignment]<sub>NP3</sub> [thought]<sub>VP2</sub> that [the readers]<sub>NP4</sub> would [ever]<sub>NPI</sub> ...

**Table 7.** Constituent creation times and feature composition for embedded clause *ever* conditions.

	NP1	NP2	VP1	NP3	VP2	NP4	NPI
Time	1083	2657	3225	4810	5378	6952	8008
Category	NP	NP	VP	NP	VP	NP	ADV
Negation	+/-	+/-	-	-	-	-	NIL
Number	pl	pl	NIL	sg	NIL	pl	NIL
C-Command	+	-	-	-	+	+	+
Level of Embedding	1	2	2	2	1	3	3

**Table 8.** Schedule of retrievals and cue sets for embedded clause *ever* conditions: R1 = retrieval of NP2 for VP1 subject-verb binding; R2 = retrieval of NP1 for relative clause gap filling; R3 = retrieval of NP1 for VP2 subject-verb binding; R4 = critical NPI retrieval.

	R1:NP2	R2:NP1	R3:NP1	R4:NPI
Time	3425	3425	5578	8208
Category	NP	NP	NP	NP
Negation	NIL	NIL	NIL	+
Number	NIL	NIL	NIL	NIL
C-Command	-	+	+	+
Level of Embedding	1	2	1	NIL

### 3. Timing manipulation (non-intervening vs. intervening parenthetical)

#### *Non-intervening parenthetical*

As [the editors]<sub>NP1</sub> [mentioned]<sub>VP1</sub>, [no authors]<sub>NP2</sub> that [the critics]<sub>NP3</sub> [recommended]<sub>VP2</sub> for [the assignment]<sub>NP4</sub> [have]<sub>VP3</sub> [ever]<sub>NPI</sub> ...

**Table 9.** Constituent creation times and feature composition for non-intervening parenthetical conditions.

	NP1	VP1	NP2	NP3	VP2	NP4	VP3	NPI
Time	1585	2153	3236	4810	5378	6963	7569	8119
Category	NP	VP	NP	NP	VP	NP	VP	ADV
Negation	-	-	+/-	+/-	-	-	-	NIL
Number	sg	NIL	pl	pl	NIL	sg	NIL	NIL
C-Command	-	-	+	-	-	-	+	+
Level of Embedding	3	3	1	2	2	2	1	1

**Table 10.** Schedule of retrievals and cue sets for non-intervening parenthetical conditions: R1 = retrieval of NP1 for VP1 subject-verb binding inside parenthetical; R2 = retrieval of NP3 for VP2 subject-verb binding; R3 = retrieval of NP2 for relative clause gap filling; R4 = retrieval of NP2 for VP3 subject-verb agreement; R5 = critical NPI retrieval

	R1:NP1	R2:NP3	R3:NP1	R4:NP1	R5:NP1
Time	2353	5578	5578	7769	8319
Category	NP	NP	NP	NP	NP
Negation	NIL	NIL	NIL	NIL	+
Number	NIL	NIL	NIL	pl	NIL
C-Command	-	-	+	+	+
Level of Embedding	3	2	1	1	NIL

*Intervening parenthetical*

[No authors]<sub>NP1</sub> that [the critics]<sub>NP2</sub> [recommended]<sub>VP1</sub> for [the assignment]<sub>NP3</sub> [have]<sub>VP2</sub>, as [the editors]<sub>NP4</sub> [mentioned]<sub>VP3</sub>, [ever]<sub>NPI</sub> ...

**Table 11.** Constituent creation times and feature composition for intervening parenthetical conditions.

	NP1	NP2	VP1	NP3	VP2	NP4	VP3	NPI
Time	1083	2657	3225	4810	5416	7001	7569	8119
Category	NP	NP	VP	NP	VP	NP	VP	ADV
Negation	+/-	+/-	-	-	-	-	-	NIL
Number	pl	pl	NIL	sg	NIL	pl	NIL	NIL
C-Command	+	-	-	-	+	-	-	-
Level of Embedding	1	2	2	2	1	3	3	1

**Table 12.** Schedule of retrievals and cue sets for intervening parenthetical conditions: R1 = retrieval of NP2 for VP1 subject-verb binding; R2 = retrieval of NP1 for relative clause gap filling; R3 = retrieval of NP1 for VP2 subject-verb binding; R4 = retrieval of NP4 for VP3 subject verb binding inside parenthetical; R5 = critical NPI retrieval.

	R1:NP2	R2:NP1	R3:NP1	R4:NP3	R5:NPI
Time	3425	3425	5616	7769	8319
Category	NP	NP	NP	NP	NP
Negation	NIL	NIL	NIL	NIL	+
Number	NIL	NIL	pl	NIL	NIL
C-Command	-	+	+	-	+
Level of Embedding	2	1	1	3	1