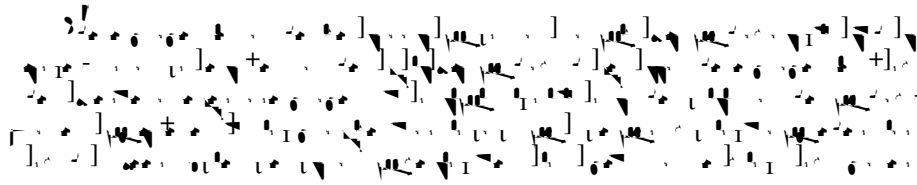


Chapter 14
Sentences in the Brain:
Event-Related Potentials as
Real-Time Reflections of
Sentence Comprehension
and Language Learning

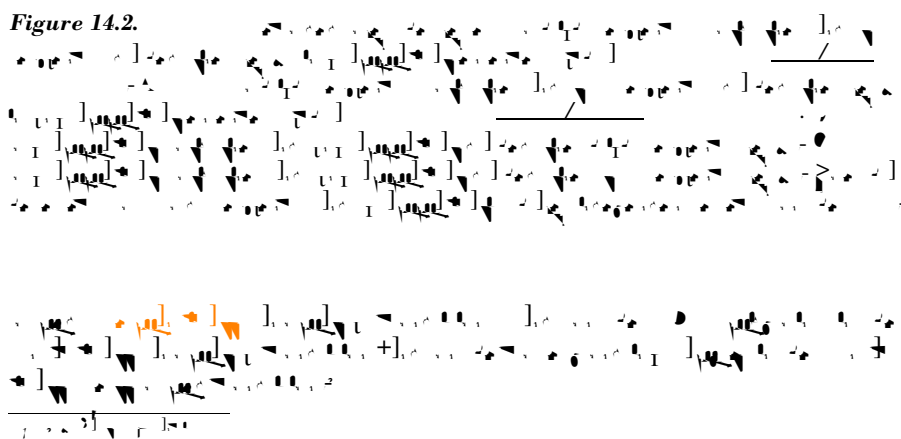
LEE OSTERHOUT, JUDITH MCLAUGHLIN,
ALBERT KIM, RALF GREENWALD, AND
KAYO INOUE

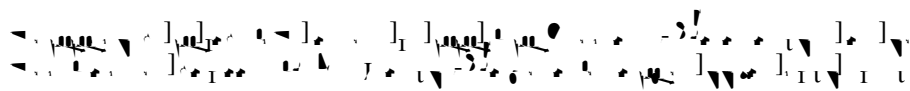


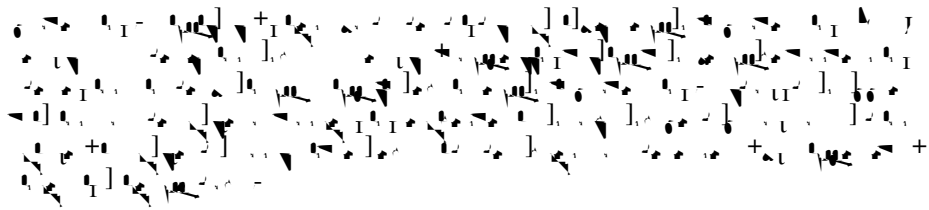
14.2 SENTENCE COMPREHENSION IN A NATIVE
LANGUAGE

• 1 2 3 4 5 6 7 8 9 10

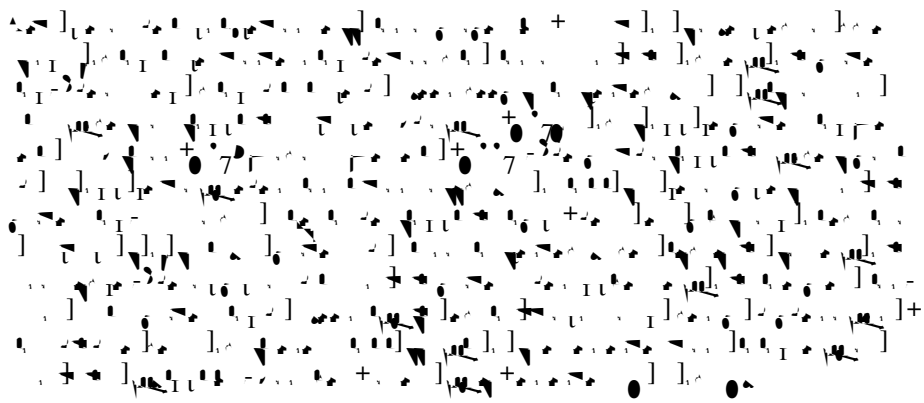
1 2 3 4 5 6 7 8 9 10



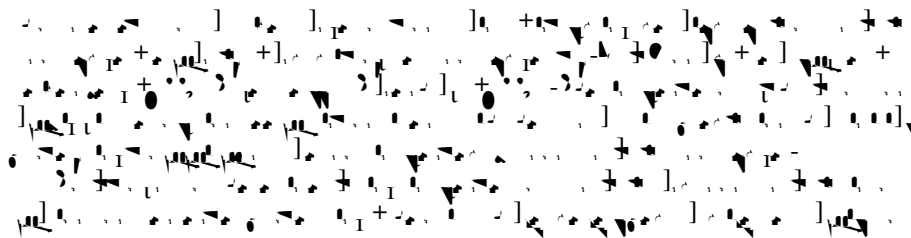


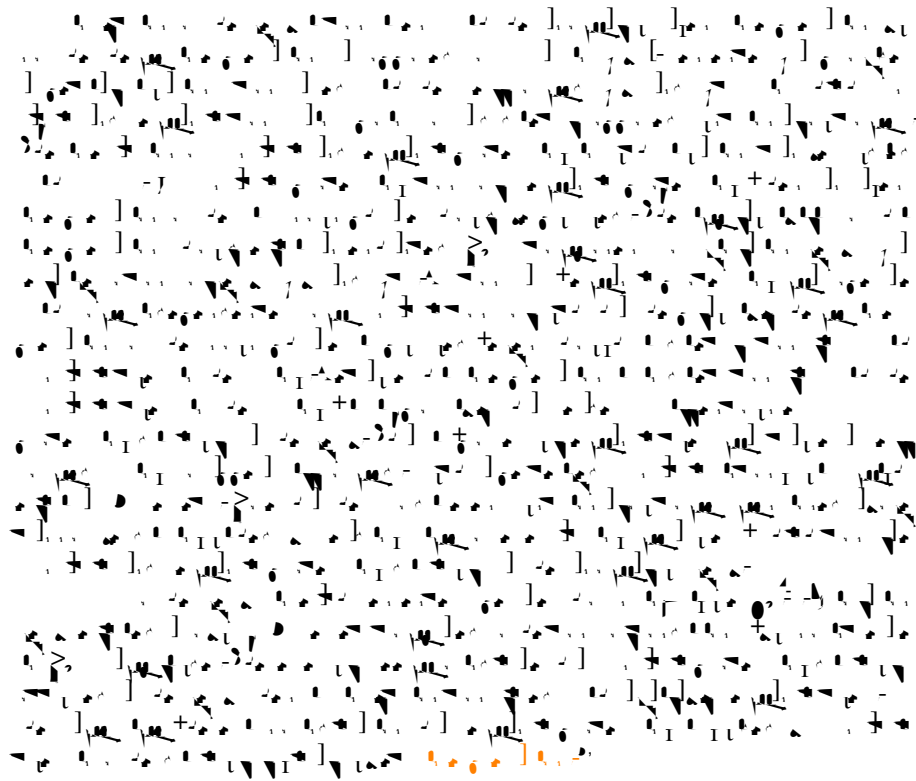


14.2.4 Coordination Between Syntax and Semantics in Sentence Processing



- —



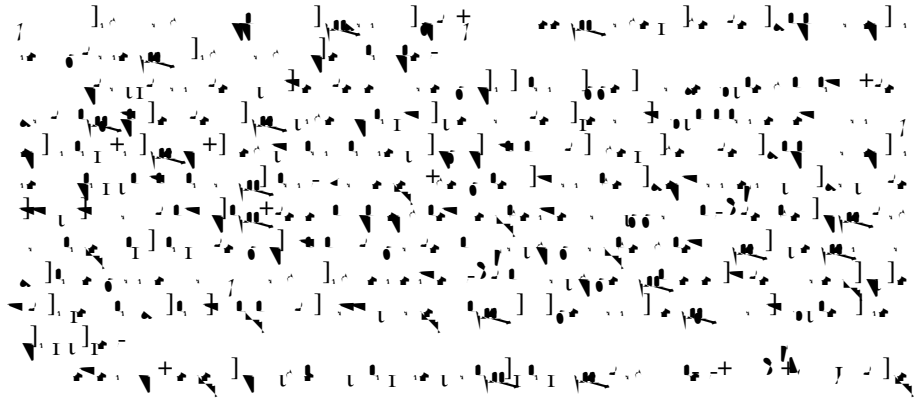


1.1 $\sqrt{0.0001} = 0.01$

1.1 $\sqrt{0.0001} = 0.01$

1. 2. 3. 4. 5. 6.

1. 2. 3. 4. 5. 6.



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4

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- 1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

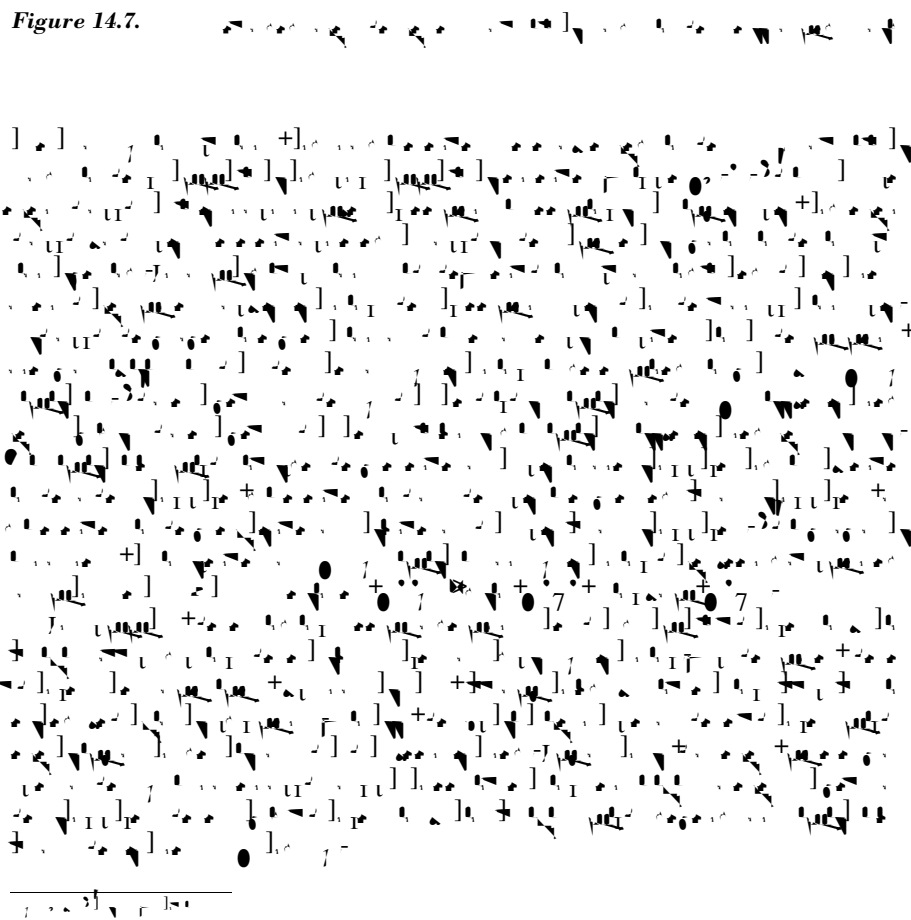
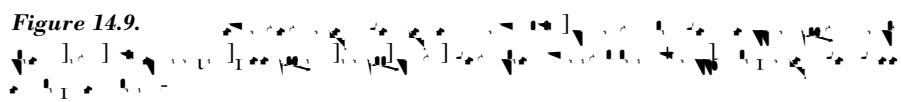
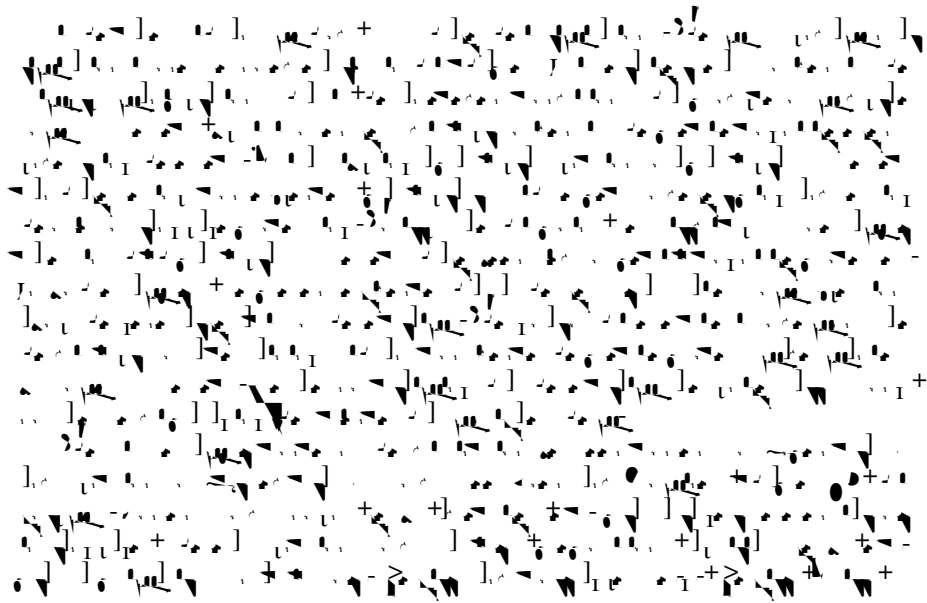
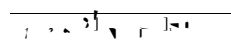
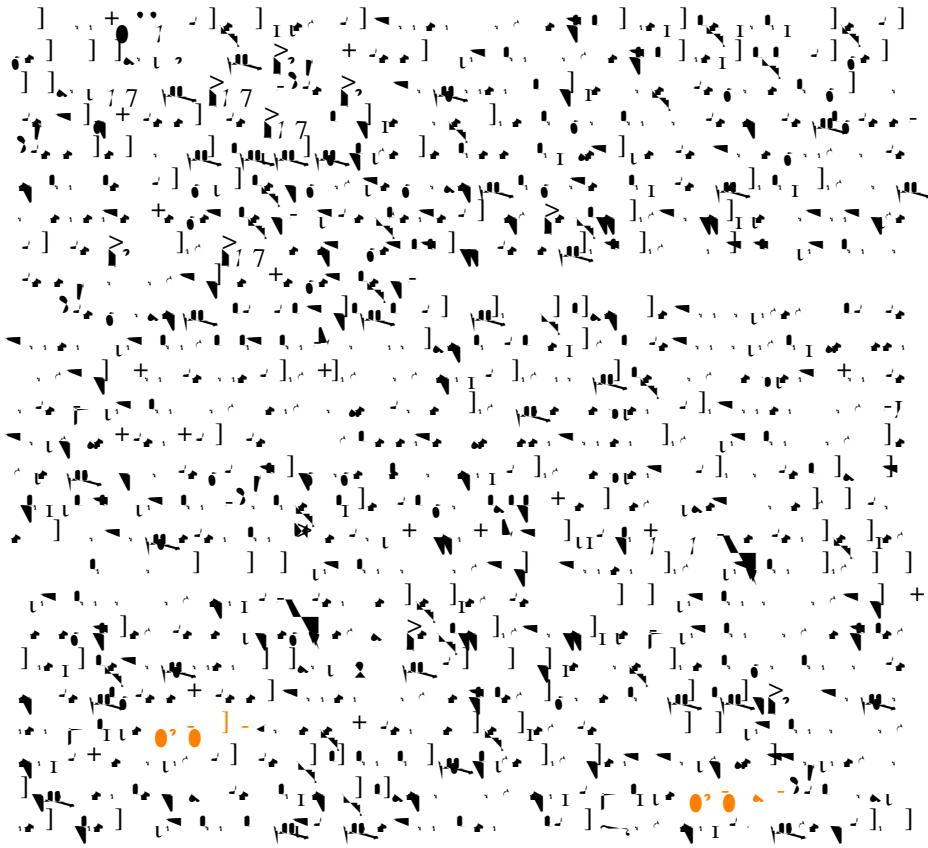


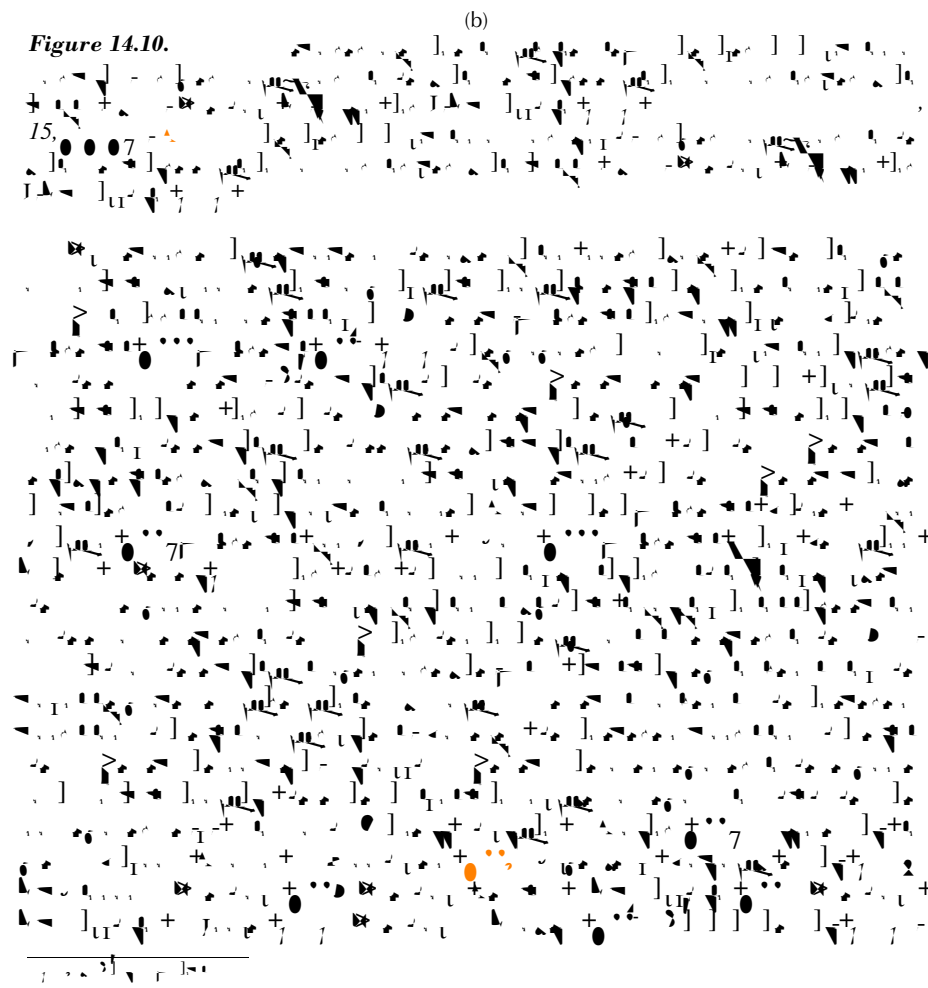
Figure 14.9. 

14.4 CAVEATS AND CAUTIONS









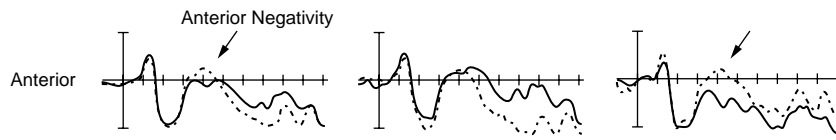
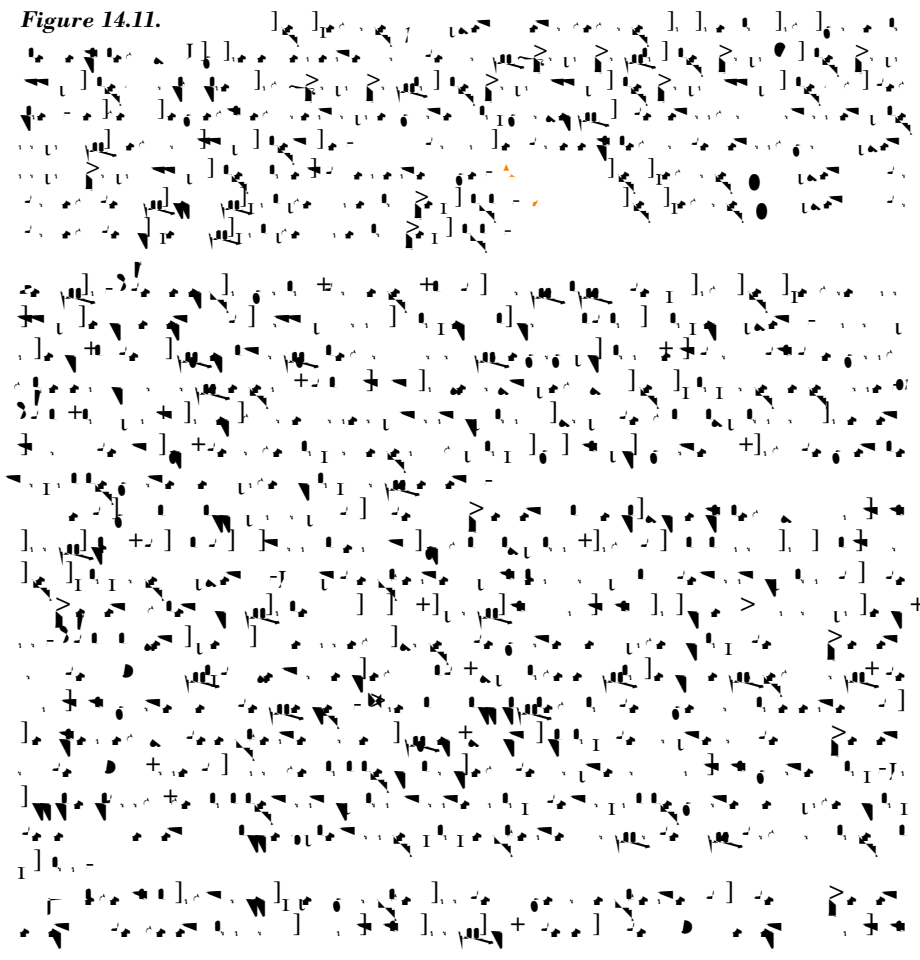
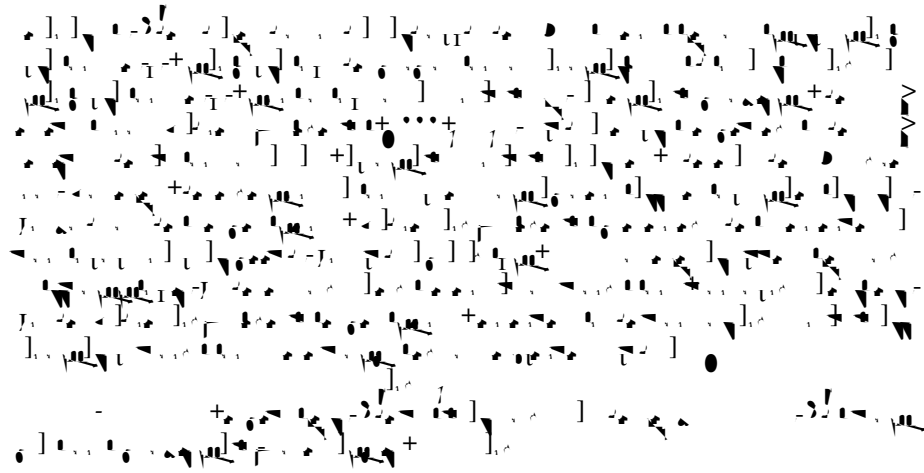


Figure 14.11.



1 2 3 4 5 6 7 8 9 10



14.5 CONCLUSIONS

The present study has shown that the brain processes sentences in a hierarchical manner, with the initial processing of words and phrases leading to the integration of the overall meaning of the sentence. This is supported by the findings that the brain's response to a sentence is significantly different from the sum of its parts, and that the brain's response to a sentence is significantly different from the sum of its parts. The results also suggest that the brain's response to a sentence is significantly different from the sum of its parts, and that the brain's response to a sentence is significantly different from the sum of its parts.

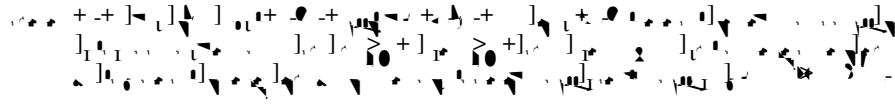
The findings of this study have important implications for our understanding of the brain's role in language processing. They suggest that the brain's response to a sentence is not simply a linear sequence of word processing, but rather a complex, hierarchical process that involves the integration of the overall meaning of the sentence. This is consistent with the idea that the brain's response to a sentence is significantly different from the sum of its parts, and that the brain's response to a sentence is significantly different from the sum of its parts.

The results also suggest that the brain's response to a sentence is significantly different from the sum of its parts, and that the brain's response to a sentence is significantly different from the sum of its parts. This is consistent with the idea that the brain's response to a sentence is significantly different from the sum of its parts, and that the brain's response to a sentence is significantly different from the sum of its parts.

References

1. ... 38, ...

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SENTENCES IN THE BRAIN

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THE ON-LINE STUDY OF SENTENCE COMPREHENSION

1. *p*

2. *f*

3. *p*

4. *f*

5. *p*

6. *f*

7. *p*

8. *f*

9. *p*

10. *f*

11. *p*

12. *f*

13. *p*

14. *f*

15. *p*

16. *f*

17. *p*

18. *f*

19. *p*

20. *f*

21. *p*

22. *f*

23. *p*

24. *f*

25. *p*

26. *f*

27. *p*

28. *f*

29. *p*

30. *f*

31. *p*

32. *f*

33. *p*

34. *f*

35. *p*

36. *f*

37. *p*

38. *f*

39. *p*

40. *f*

41. *p*

42. *f*

43. *p*

44. *f*

45. *p*

46. *f*

47. *p*

48. *f*

49. *p*

50. *f*

51. *p*

52. *f*

53. *p*

54. *f*

55. *p*

56. *f*

57. *p*

58. *f*

59. *p*

60. *f*

61. *p*

62. *f*

63. *p*

64. *f*

65. *p*

66. *f*

67. *p*

68. *f*

69. *p*

70. *f*

71. *p*

72. *f*

73. *p*

74. *f*

75. *p*

76. *f*

77. *p*

78. *f*

79. *p*

80. *f*

81. *p*

82. *f*

83. *p*

84. *f*

85. *p*

86. *f*

87. *p*

88. *f*

89. *p*

90. *f*

91. *p*

92. *f*

93. *p*

94. *f*

95. *p*

96. *f*

97. *p*

98. *f*

99. *p*

100. *f*

101. *p*

102. *f*

103. *p*

104. *f*

105. *p*

106. *f*

107. *p*

108. *f*

109. *p*

110. *f*

111. *p*

112. *f*

113. *p*

114. *f*

115. *p*

116. *f*

117. *p*

118. *f*

119. *p*

120. *f*

121. *p*

122. *f*

123. *p*

124. *f*

125. *p*

126. *f*

127. *p*

128. *f*

129. *p*

130. *f*

131. *p*

132. *f*

133. *p*

134. *f*

135. *p*

136. *f*

137. *p*

138. *f*

139. *p*

140. *f*

141. *p*

142. *f*

143. *p*

144. *f*

145. *p*

146. *f*

147. *p*

148. *f*

149. *p*

150. *f*

151. *p*

152. *f*

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171. *p*

172. *f*

173. *p*

174. *f*

175. *p*

176. *f*

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180. *f*

181. *p*

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183. *p*

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185. *p*

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188. *f*

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190. *f*

191. *p*

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193. *p*

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195. *p*

196. *f*

197. *p*

198. *f*

199. *p*

200. *f*

201. *p*

202. *f*

203. *p*

204. *f*

205. *p*

206. *f*

207. *p*

208. *f*

209. *p*

210. *f*

211. *p*

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213. *p*

214. *f*

215. *p*

216. *f*

217. *p*

218. *f*

219. *p*

220. *f*

221. *p*

222. *f*

223. *p*

224. *f*

225. *p*

226. *f*

227. *p*

228. *f*

229. *p*

230. *f*

231. *p*

232. *f*

233. *p*

234. *f*

235. *p*

236. *f*

237. *p*

238. *f*

239. *p*

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241. *p*

242. *f*

243. *p*

244. *f*

245. *p*

246. *f*

247. *p*

248. *f*

249. *p*

250. *f*

251. *p*

252. *f*

253. *p*

254. *f*

255. *p*

256. *f*

257. *p*

258. *f*

259. *p*

260. *f*

261. *p*

262. *f*

263. *p*

264. *f*

265. *p*

266. *f*

267. *p*

268. *f*

269. *p*

270. *f*

271. *p*

272. *f*

273. *p*

274. *f*

275. *p*

276. *f*

277. *p*

278. *f*

279. *p*

280. *f*

281. *p*

282. *f*

283. *p*

284. *f*

285. *p*

286. *f*

287. *p*

288. *f*

289. *p*

290. *f*

291. *p*

292. *f*

293. *p*

294. *f*

295. *p*

296. *f*

297. *p*

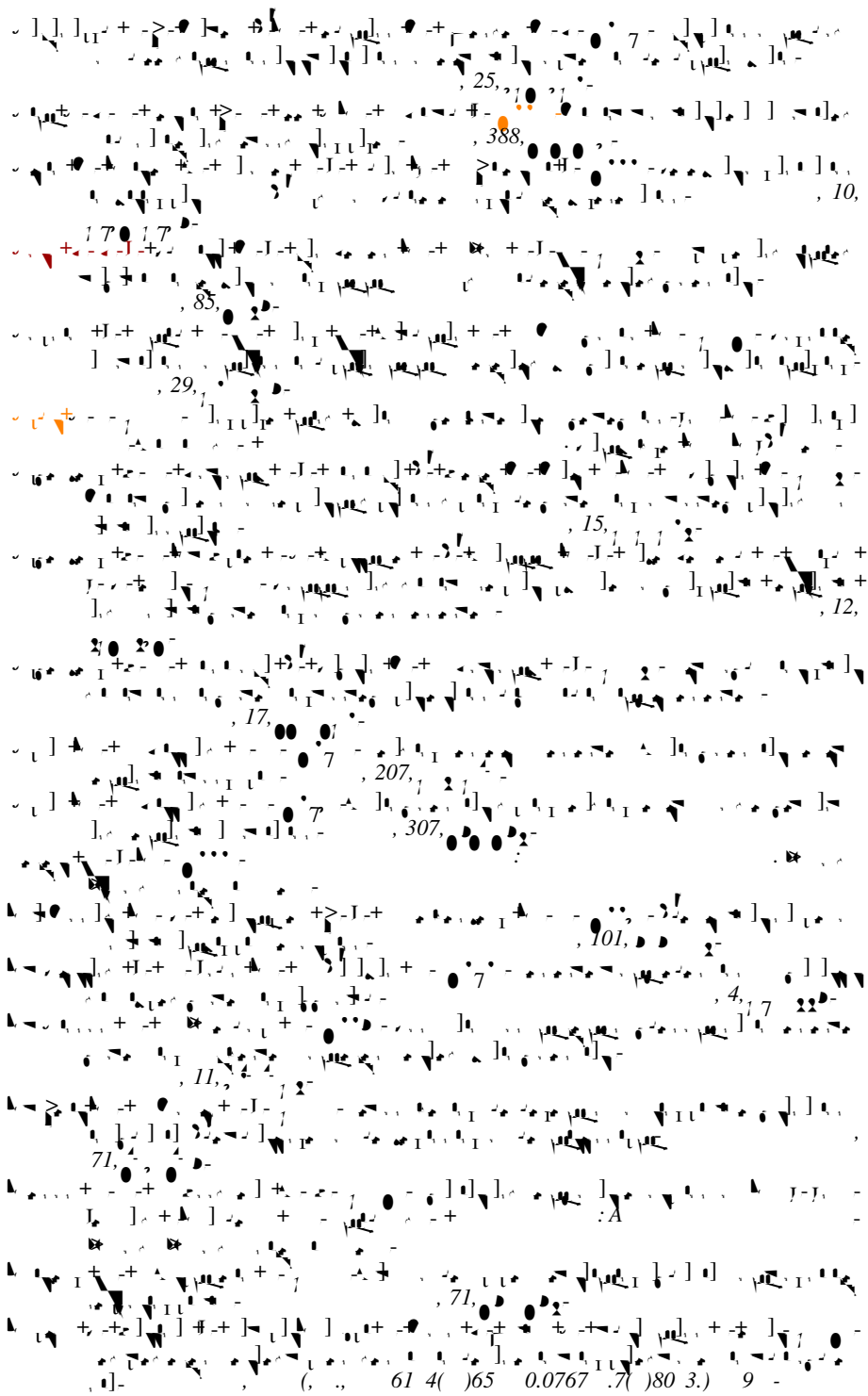
298. *f*

299. *p*

300. *f*

301. *p*

302. *f*



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