Data File: Feature vs. Conjunction Search Experiment.

Subject # 1

Raw Data: (Target = red T)

Cond. Block Trial Target red L green T Correct RT

feat 1 1 1 0 16 1 0.5607

feat 1 2 1 0 12 1 0.3675

feat 1 3 1 0 2 1 0.4393

feat 1 4 1 0 6 1 0.4314

feat 1 5 0 0 4 1 0.4162

feat 1 6 0 0 8 1 0.4555

feat 1 7 1 0 4 1 0.4877

feat 1 8 0 0 12 1 0.4079

feat 1 9 0 0 6 1 0.4215

feat 1 10 1 0 2 1 0.5394

feat 1 11 1 0 8 1 0.5279

feat 1 12 1 0 8 1 0.4155

feat 1 13 0 0 2 1 0.5525

feat 1 14 0 0 16 1 0.5743

feat 1 15 1 0 4 1 0.5202

feat 1 16 0 0 2 1 0.4882

feat 1 17 0 0 4 1 0.4957

feat 1 18 1 0 6 1 0.4392

feat 1 19 0 0 12 1 0.5352

feat 1 20 0 0 8 1 0.5754

feat 1 21 0 0 16 1 0.4149

feat 1 22 1 0 12 1 0.3911

feat 1 23 1 0 16 1 0.4303

feat 1 24 0 0 6 1 0.4711

feat 2 1 0 4 0 1 0.6023

feat 2 2 1 6 0 1 0.7433

feat 2 3 1 12 0 1 0.8225

feat 2 4 0 12 0 1 0.6523

feat 2 5 0 8 0 1 0.5998

feat 2 6 1 2 0 1 0.6075

feat 2 7 0 2 0 1 0.4802

feat 2 8 0 16 0 1 1.0704

feat 2 9 1 16 0 1 0.7185

feat 2 10 1 4 0 1 0.9518

feat 2 11 0 8 0 1 0.6159

feat 2 12 0 4 0 1 0.5281

feat 2 13 1 8 0 1 0.5986

feat 2 14 0 6 0 1 0.6957

feat 2 15 1 4 0 1 0.5443

feat 2 16 1 12 0 1 0.5506

feat 2 17 1 8 0 1 0.5842

feat 2 18 1 2 0 1 0.5915

feat 2 19 1 6 0 1 0.5036

feat 2 20 0 16 0 1 1.0311

feat 2 21 0 2 0 1 0.5591

feat 2 22 0 6 0 1 0.9913

feat 2 23 1 16 0 1 0.6057

feat 2 24 0 12 0 1 0.8639

conj 3 1 1 6 6 1 1.1173

conj 3 2 1 1 1 1 0.7514

conj 3 3 1 1 1 1 0.4799

conj 3 4 1 8 8 0

conj 3 5 1 8 8 1 1.0254

conj 3 6 1 2 2 1 0.7121

conj 3 7 1 4 4 1 0.7433

conj 3 8 0 2 2 1 0.7520

conj 3 9 1 2 2 1 0.8797

conj 3 10 1 6 6 1 0.5497

conj 3 11 1 4 4 1 0.6396

conj 3 12 0 2 2 1 0.8155

conj 3 13 1 3 3 1 0.7913

conj 3 14 1 3 3 1 0.5990

conj 3 15 0 6 6 1 1.4478

conj 3 16 0 8 8 1 1.1737

conj 3 17 0 1 1 1 0.6335

conj 3 18 0 4 4 1 0.6231

conj 3 19 0 6 6 1 0.7992

conj 3 20 0 3 3 1 0.6232

conj 3 21 0 1 1 1 0.5198

conj 3 22 0 4 4 1 0.5669

conj 3 23 0 3 3 1 0.5921

conj 3 24 0 8 8 1 0.9017

conj 4 1 0 1 1 1 0.6187

conj 4 2 1 2 2 1 0.8878

conj 4 3 0 6 6 1 0.9827

conj 4 4 1 4 4 1 0.7515

conj 4 5 1 2 2 1 0.5041

conj 4 6 1 4 4 1 0.8551

conj 4 7 0 3 3 1 0.8721

conj 4 8 0 6 6 1 0.9026

conj 4 9 1 1 1 1 0.5911

conj 4 10 0 4 4 1 0.5909

conj 4 11 0 8 8 1 0.8453

conj 4 12 1 1 1 1 0.5276

conj 4 13 1 3 3 1 0.8159

conj 4 14 0 4 4 1 0.6873

conj 4 15 1 6 6 1 0.6537

conj 4 16 0 3 3 1 0.5916

conj 4 17 0 2 2 1 0.6562

conj 4 18 0 8 8 1 1.5578

conj 4 19 1 8 8 0

conj 4 20 1 6 6 1 1.3497

conj 4 21 0 2 2 1 0.5915

conj 4 22 1 8 8 1 0.5821

conj 4 23 0 1 1 1 0.4956

conj 4 24 1 3 3 1 0.8156

\* \* \* \* \* Summary by Condition \* \* \* \* \*

**Feature Search Condition**

**Average over both distractors (target = red T):**

**Response Times:**

**Num Target Absent Target Present**

**Distractors Mean SD Mean SD**

**2 0.5200 0.0360 0.5444 0.0657**

**4 0.5106 0.0668 0.6260 0.1892**

**6 0.6449 0.2251 0.5294 0.1267**

**8 0.5616 0.0630 0.5315 0.0720**

**12 0.6148 0.1678 0.5329 0.1814**

**16 0.7727 0.2840 0.5788 0.1032**

**Accuracy:**

**Num Target Absent Target Present**

**Distractors Num Correct Num Correct**

**2 4 of 4 4 of 4**

**4 4 of 4 4 of 4**

**6 4 of 4 4 of 4**

**8 4 of 4 4 of 4**

**12 4 of 4 4 of 4**

**16 4 of 4 4 of 4**

**Target Present Slope = -0.00049 sec/distractor; Intercept = 0.56113**

**Target Absent Slope = 0.01609 sec/distractor; Intercept = 0.47534**

Distractor red L only (target = red T):

Response Times:

Num Target Absent Target Present

Distractors Mean SD Mean SD

2 0.5196 0.0395 0.5995 0.0080

4 0.5652 0.0371 0.7481 0.2037

6 0.8435 0.1478 0.6235 0.1199

8 0.6078 0.0081 0.5914 0.0072

12 0.7581 0.1058 0.6866 0.1360

16 1.0507 0.0196 0.6621 0.0564

Accuracy:

Num Target Absent Target Present

Distractors Num Correct Num Correct

2 2 of 2 2 of 2

4 2 of 2 2 of 2

6 2 of 2 2 of 2

8 2 of 2 2 of 2

12 2 of 2 2 of 2

16 2 of 2 2 of 2

Target Present Slope = 0.00152 sec/distractor; Intercept = 0.63969

Target Absent Slope = 0.03215 sec/distractor; Intercept = 0.46693

Distractor green T only (target = red T):

Response Times:

Num Target Absent Target Present

Distractors Mean SD Mean SD

2 0.5203 0.0322 0.4893 0.0501

4 0.4560 0.0397 0.5039 0.0162

6 0.4463 0.0248 0.4353 0.0039

8 0.5154 0.0600 0.4717 0.0562

12 0.4715 0.0636 0.3793 0.0118

16 0.4946 0.0797 0.4955 0.0652

Accuracy:

Num Target Absent Target Present

Distractors Num Correct Num Correct

2 2 of 2 2 of 2

4 2 of 2 2 of 2

6 2 of 2 2 of 2

8 2 of 2 2 of 2

12 2 of 2 2 of 2

16 2 of 2 2 of 2

Target Present Slope = -0.00251 sec/distractor; Intercept = 0.48258

Target Absent Slope = 0.00004 sec/distractor; Intercept = 0.48375

**Conjunction Search Condition (target = red T):**

**Response Times:**

**Num Target Absent Target Present**

**Distractors Mean SD Mean SD**

**2 0.5669 0.0600 0.5875 0.1025**

**4 0.7038 0.0861 0.7459 0.1562**

**6 0.6698 0.1175 0.7554 0.0909**

**8 0.6171 0.0452 0.7474 0.0762**

**12 1.0330 0.2481 0.9176 0.3285**

**16 1.1196 0.2818 1.0270 0.2964**

**Accuracy:**

**Num Target Absent Target Present**

**Distractors Num Correct Num Correct**

**2 4 of 4 4 of 4**

**4 4 of 4 4 of 4**

**6 4 of 4 4 of 4**

**8 4 of 4 4 of 4**

**12 4 of 4 4 of 4**

**16 4 of 4 2 of 4**

**Target Present Slope = 0.01868 sec/distractor; Intercept = 0.61975**

**Target Absent Slope = 0.04068 sec/distractor; Intercept = 0.45957**