# Example 4.2: Data and WinBUGs Code for See et al. (2006) Study 1

See K., Fox C., & Rottenstreich Y., 2006. Between ignorance and truth: Partition dependence and learning in judgment under uncertainty. Journal of Experimental Psychology: Learning, Memory and Cognition, 32, 13851402.

## Data

N.B.: Several 'rogue' cases in the DV had to be dealt with. There were several cases with values greater than 1 that appear to be typographical errors, and these were recoded to what seemed to be the most likely true values (e.g., 30 was recoded to .3). Several cases with a value of 0 were recoded to .0005.

list(N = 267, R = structure(.Data = c(1, 0, 0, 0, 0, 0))	1, 0, 0, 0, 1), .Dim =
c(3, 3)), x1 = c(-1.79176, -0.69315, -1.79176, -1	.79176, -1.79176, -
1.79176, -1.79176, -1.79176, -0.69315, -0.69315),	$x^2 = structure(.Data =$
c(-1.098612289,-1.098612289,-1.900958761,-1.90095	8761,-1.900958761,-
2.197224577, -2.197224577, -1.516347489, -0.61903920	8,-0.405465108,-
1.098612289, -1.098612289, -2.442347035, -1.38629436	1,-1.386294361,-
2.197224577, -2.197224577, -2.442347035, -0.84729786	, -0.200670695, -
1.098612289, -1.098612289, -1.098612289, -2.19722457	7,-2.442347035,-
2.197224577, -1.734601055, -2.442347035, -0.40546510	8,-0.619039208,-
1.098612289, -1.098612289, -2.442347035, -1.38629436	1,-2.442347035,-
1.208311206, -2.197224577, -2.442347035, -0.20067069	5,-0.84729786,-
1.098612289, -1.098612289, -2.442347035, -2.19722457	7,-2.442347035,-
1.208311206, -1.516347489, -2.197224577, -0.08004270	8,-0.944461609,-
1.098612289, -1.098612289, -2.944438979, -1.90095876	1,-1.734601055,-
1.386294361, -2.944438979, -1.516347489, -0.20067069	5,-0.84729786,-
1.098612289, -1.098612289, -1.734601055, -2.19722457	7,-2.197224577,-
2.197224577, -1.208311206, -2.442347035, -0.40546510	8,-0.619039208,-
1.098612289, -1.098612289, -1.900958761, -1.51634748	9,-2.442347035,-
1.516347489, -2.197224577, -2.197224577, -0.94446160	9,-0.080042708,-
1.098612289, -1.098612289, -2.442347035, -1.51634748	9,-2.197224577,-
1.386294361, -2.197224577, -2.197224577, -0.84729786	, -0.200670695, -
1.098612289, -1.098612289, -2.944438979, -1.51634748	9,-2.197224577,-
2.197224577, -1.386294361, -1.900958761, -1.09861228	9,0,-1.098612289,-
1.098612289, -1.900958761, -1.900958761, -2.94443897	9,-1.900958761,-
1.900958761, -1.386294361, -1.208311206, 0.120144312	,-1.098612289,-
1.098612289, -2.442347035, -1.098612289, -2.94443897	9,-2.197224577,-
1.734601055, -1.900958761, -0.84729786, -0.200670695	,-1.098612289,-
1.098612289, -2.197224577, -2.197224577, -1.73460105	5,-1.516347489,-
1.516347489, -2.944438979, -0.84729786, -0.200670695	,-1.098612289,-
1.098612289, -2.442347035, -1.900958761, -1.73460105	5, -2.944438979, -
1.098612289, -2.197224577, -0.200670695, -0.84729786	,-1.098612289,-
1.098612289, -1.208311206, -2.442347035, -2.44234703	5,-1.516347489,-
2.197224577, -2.197224577, -0.405465108, -0.61903920	8,-1.098612289,-
1.098612289,-1.900958761,-1.900958761,-1.51634748	9,-2.197224577,-
1.734601055, -2.442347035, -0.200670695, -0.84729786	,-1.098612289,-
1.098612289, -2.197224577, -2.197224577, -2.19722457	7,-1.098612289,-
2.197224577, -2.197224577, -0.281851152, -0.70818505	8,-1.098612289,-
1.098612289, -2.442347035, -0.944461609, -2.44234703	5,-1.516347489,-
2.944438979, -2.197224577, -0.619039208, -0.40546510	8,-1.098612289,-
1.098612289, -1.386294361, -2.442347035, -2.44234703	5,-1.516347489,-
2.197224577,-1.900958761,-0.281851152,-0.70818505	8,-1.098612289,-
1.098612289, -1.900958761, -1.386294361, -2.19722457	7, -2.442347035, -
1.900958761, -1.900958761, -0.708185058, -0.28185115	2,-1.098612289,-
1.098612289, -1.516347489, -2.197224577, -1.90095876	1,-2.197224577,-
2.944438979, -1.386294361, -0.489548225, -0.48954822	5,-1.098612289,-
1.098612289, -2.944438979, -1.900958761, -1.51634748	9,-2.197224577,-

1,098612289,-2,442347035,-1,900958761,-1,516347489,-1,20831120	39,-
	)6,-
2.442347035, -2.442347035, -0.708185058, -0.281851152, -1.09861228	39,-
1.098612289,-2.442347035,-1.900958761,-1.734601055,-1.38629436	51,-
1.734601055, -2.944438979, -0.281851152, -0.708185058, -1.09861228	39,-
1.098612289,-1.516347489,-1.516347489,-2.944438979,-1.73460105	5,-
1.734601055, -2.944438979, -0.619039208, -0.405465108, -1.09861228	39,-
1.098612289,-0.944461609,-3.47609869,-2.442347035,-1.734601055	;
1,734601055,-2,442347035,0,322773392,-1,516347489,-1,098612289	, )
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2 4423470351 516347489.01 0986122891 0986122891 098612	289
2 442347035 -1 516347489 -1 098612289 -1 734601055 -2 94443895	19 -
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0.201051152,-0.700105050,-1.090012209,-1.090012209,-1.50029450	)⊥,- 70
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0.489548225,-0.489548225,-1.098612289,-1.098612289,-3.47609865	,,_ 
2.44234/035,-1./34601055,-2.19/2245//,-1.900958/61,-0.94446160	19,-
0.708185058,-0.281851152,-1.098612289,-1.098612289,-1.73460105	)5,- ,
1.900958761,-2.197224577,-1.098612289,-3.47609869,-2.197224577	· , -
0.080042708,-0.944461609,-1.098612289,-1.098612289,-1.20831120	)6,-
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1.900958761,0.120144312,-1.208311206,-1.098612289,-1.098612289	),-
1.900958761, -2.442347035, -2.442347035, -1.516347489, -1.51634748	39,-
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2.197224577, -2.197224577, -1.900958761, -1.734601055, -1.51634748	39,-
2.197224577,-0.489548225,-0.489548225,-1.098612289,-1.09861228	39,-
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1.734601055,-1.900958761,-1.900958761,-2.197224577,-2.44234703	35,-
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2.197224577,-1.516347489,-1.900958761,-1.734601055,-3.47609869,-
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0.10/217025, 0.10/21223, 1.0/0012207, 1.0/2012207, 1.734001055, 0.10/201025, 0.10/201055, 0.10/201055, 0.10/201025, 0.10/201055, 0.10/2005
2.44234/035,-2.44234/035,-1.20051200,-2.44234/055,-1.75400055,-
0.201051152,-0.700105050,-1.090012209,-1.90012209,-1.900950701,-
1.900958/61,-1.51634/489,-2.19/2245//,-2.19/2245//,-1.900958/61,-
0.619039208,-0.405465108,-1.098612289,-1.098612289,-2.944438979,-
1.516347489,-1.386294361,-2.442347035,-3.47609869,-1.208311206,-
0.944461609,-0.080042708,-1.098612289,-1.098612289,-2.197224577,-
1.900958761,-1.900958761,-1.208311206,-2.197224577,-2.442347035,-
0.708185058,-0.281851152,-1.098612289,-1.098612289,-2.197224577,-
1.900958761,-1.386294361,-3.47609869,-1.516347489,-
1,900958761,0,200670695,-1,386294361,-1,098612289,-1,098612289,-
2 197224577 -1 734601055 -2 197224577 -1 516347489 -1 734601055 -
2 442347035 -0 200670695 -0 84729786 -1 098612289 -1 098612289 -
$2 \cdot 17227677 = 1 \cdot 000660761 = 1 \cdot 074601066 = 2 \cdot 04422070 = 1 \cdot 206204261$
2.19/2245//, -1.900950/01, -1.75401005, -2.9444505/9, -1.500294501, -
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BULUCULC( .Dala -

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c(0.15, 0.25, 0.15, 0.1, 0.1, 0.15, 0.1, 0.15, 0.3, 0.45, 0.16, 0.2, 0.1, 0.05, 0.16, 0.16),0.12,0.15,0.04,0.7,0.18,0.38,0.12,0.12,0.12,0.13,0.1,0.08,0.35,0.21,0.35,0 .45, 0.2, 0.3, 0.1, 0.35, 0.25, 0.1, 0.3, 0.35, 0.15, 0.16, 0.17, 0.15, 0.18, 0.18, 0.14, 0.08, 0.4, 0.4, 0.17, 0.1, 0.05, 0.33, 0.1, 0.08, 0.1, 0.1, 0.65, 0.25, 0.35, 0.3, 0.25, 0.1,0.1,0.05,0.25,0.1,0.4,0.3,0.1,0.05,0.15,0.1,0.1,0.1,0.2,0.1,0.45,0.5,0.14, 0.33,0.15,0.15,0.15,0.15,0.15,0.15,0.33,0.33,0.4,0.38,0.28,0.25,0.3,0.35,0. 37,0.35,0.22,0.45,0.2,0.3,0.15,0.1,0.13,0.08,0.02,0.4,0.3,0.6,0.5,0.3,0.1,0 .3,0.05,0.3,0.1,0.15,0.2,0.5,0.7,0.25,0.2,0.1,0.3,0.25,0.5,0.05,0.4,0.7,0.1 15,0.2,0.4,0.45,0.3,0.25,0.2,0.26,0.3,0.3,0.15,0.15,0.5,0.25,0.2,0.25,0.2,0 .15, 0.21, 0.15, 0.15, 0.2, 0.3, 0.4, 0.1, 0.05, 0.2, 0.45, 0.25, 0.2, 0.15, 0.03, 0.4, 0.45,0.4,0.3,0.05,0.4,0.1,0.1,0.05,0.4,0.4,0.6,0.15,0.35,0.12,0.2,0.0005,0.15, 0.15,0.18,0.26,0.33,0.2,0.15,0.18,0.08,0.14,0.15,0.25,0.2,0.15,0.43,0.25,0. 35,0.15,0.2,0.15,0.1,0.2,0.15,0.25,0.4,0.4,0.2,0.1,0.15,0.15,0.1,0.25,0.08, 0.25,0.55,0.3,0.2,0.1,0.3,0.25,0.2,0.1,0.04,0.45,0.35,0.2,0.3,0.1,0.3,0.2,0 .3,0.35,0.1,0.3,0.6,0.1,0.05,0.3,0.15,0.2,0.1,0.3,0.15,0.4,0.3,0.1,0.5,0.18 ,0.2,0.05,0.1,0.2,0.18,0.56,0.3,0.15,0.4,0.2,0.1,0.2,0.1,0.12,0.1,0.45,0.25 ,0.25,0.25,0.15,0.05,0.2,0.15,0.2,0.3,0.3,0.45,0.15,0.2,0.1,0.1,0.1,0.08,0. 5,0.2,0.35,0.2,0.2,0.25,0.08,0.15,0.07,0.05,0.05,0.4,0.5,0.3,0.1,0.15,0.4,0 .4, 0.15, 0.1, 0.1, 0.1, 0.65, 0.25, 0.3, 0.35, 0.05, 0.1, 0.1, 0.25, 0.15, 0.3, 0.2, 0.4, 0.15,0.3,0.15,0.15,0.15,0.15,0.12,0.16,0.4,0.3,0.25,0.3,0.1,0.15,0.08,0.05,0 .15,0.08,0.3,0.45,0.1,0.2,0.15,0.1,0.25,0.2,0.1,0.1,0.7,0.25,0.25,0.2,0.05, 0.05,0.05,0.15,0.2,0.3,0.5,0.3,0.3,0.3,0.2,0.1,0.2,0.3,0.2,0.5,0.4,0.4,0.2, 0.1,0.2,0.05,0.15,0.15,0.25,0.05,0.4,0.3,0.24,0.05,0.15,0.2,0.1,0.25,0.0005 ,0.1,0.4,0.75,0.3,0.4,0.2,0.25,0.35,0.2,0.17,0.4,0.19,0.4,0.05,0.4,0.2,0.1, 0.25, 0.3, 0.1, 0.0005, 0.3, 0.4, 0.15, 0.33, 0.15, 0.15, 0.15, 0.15, 0.15, 0.15, 0.33, 0.33,0.2,0.3,0.14,0.2,0.16,0.16,0.19,0.18,0.3,0.4,0.5,0.2,0.15,0.25,0.08,0.15 ,0.1,0.05,0.4,0.6,0.12,0.03,0.4,0.25,0.16,0.38,0.12,0.1,0.35,0.6,0.25,0.32, 0.18, 0.1, 0.11, 0.28, 0.09, 0.1, 0.34, 0.35, 0.2, 0.3, 0.08, 0.26, 0.15, 0.3, 0.1, 0.36, 0.00, 0.1, 0.00,.45,0.25,0.2,0.3,0.15,0.2,0.2,0.2,0.2,0.2,0.5,0.4,0.25,0.33,0.22,0.13,0.16, 0.17, 0.12, 0.1, 0.22, 0.42, 0.14, 0.33, 0.12, 0.14, 0.18, 0.18, 0.13, 0.16, 0.33,.14,0.15,0.05,0.1,0.2,0.08,0.12,0.3,0.5,0.15,0.19,0.23,0.21,0.15,0.13,0.1,0 .12,0.11,0.45,0.35,0.1,0.3,0.15,0.1,0.1,0.1,0.08,0.05,0.5,0.25,0.15,0.2,0.1 ,0.18,0.23,0.12,0.05,0.25,0.4,0.4,0.4,0.3,0.1,0.4,0.2,0.3,0.1,0.1,0.15,0.5, 0.38,0.2,0.1,0.08,0.1,0.2,0.15,0.41,0.45,0.42,0.18,0.25,0.11,0.13,0.18,0.15 ,0.13,0.12,0.23,0.5,0.1,0.25,0.1,0.15,0.13,0.15,0.2,0.25,0.25,0.5,0.04,0.05 ,0.01,0.09,0.0005,0.08,0.03,0.02,0.06,0.07,0.3,0.1,0.15,0.15,0.15,0.15,0.15 ,0.2,0.55,0.25,0.2,0.3,0.1,0.1,0.15,0.15,0.1,0.25,0.3,0.4,0.2,0.1,0.1,0.1,0 .1, 0.2, 0.3, 0.25, 0.35, 0.45, 0.14, 0.3, 0.14, 0.14, 0.14, 0.14, 0.14, 0.14, 0.14, 0.5, 0.2, 0.18,0.38,0.1,0.2,0.22,0.19,0.07,0.07,0.49,0.23,0.25,0.4,0.1,0.1,0.12,0.1,0.3 5,0.25,0.3,0.3,0.1,0.35,0.1,0.16,0.14,0.2,0.2,0.2,0.2,0.29,0.4,0.25,0.3,0.1,0.1 ,0.1,0.15,0.2,0.2,0.4,0.35,0.24,0.3,0.23,0.04,0.1,0.13,0.26,0.2,0.4,0.35,0. 25,0.15,0.1,0.3,0.03,0.15,0.35,0.2,0.35,0.3,0.3,0.15,0.1,0.1,0.1,0.1,0.07,0 .15,0.4,0.15,0.3,0.25,0.1,0.2,0.15,0.15,0.2,0.15,0.2,0.5,0.66,0.34,0.32,0.1 5,0.08,0.09,0.12,0.1,0.51,0.09,0.17,0.33,0.17,0.17,0.17,0.17,0.17,0.17,0.33 ,0.33,0.19,0.35,0.2,0.23,0.2,0.16,0.23,0.15,0.35,0.3,0.3,0.1,0.25,0.15,0.05 ,0.1,0.15,0.2,0.3,0.1,0.3,0.35,0.1,0.15,0.05,0.2,0.15,0.2,0.35,0.4,0.2,0.1, 0.05,0.15,0.1,0.1,0.05,0.2,0.5,0.4,0.1,0.2,0.2,0.2,0.1,0.1,0.2,0.1,0.4,0.2, 0.3,0.2,0.15,0.2,0.1,0.1,0.2,0.2,0.4,0.25,0.1,0.3,0.1,0.2,0.1,0.1,0.1,0.15, 0.4, 0.3, 0.15, 0.35, 0.0005, 0.33, 0.13, 0.2, 0.13, 0.15, 0.5, 0.15, 0.65, 0.05,22,0.45,0.37,0.1,0.33,0.7,0.45,0.15,0.3,0.08,0.2,0.2,0.14,0.08,0.15,0.2,0.5 ,0.15,0.3,0.15,0.15,0.1,0.08,0.1,0.25,0.3,0.2,0.2,0.33,0.15,0.13,0.1,0.18,0 .13, 0.18, 0.39, 0.3, 0.4, 0.3, 0.1, 0.1, 0.2, 0.2, 0.4, 0.3, 0.4, 0.3, 0.3, 0.15, 0.05, 0.15,0.15,0.1,0.4,0.1,0.45,0.4,0.6,0.35,0.3,0.02,0.02,0.04,0.01,0.04,0.35,0.3, 0.21, 0.33, 0.26, 0.15, 0.4, 0.2, 0.25, 0.08, 0.25, 0.5, 0.2, 0.4, 0.15, 0.10.2,0.35,0.25,0.35,0.25,0.3,0.1,0.2,0.1,0.18,0.15,0.17,0.35,0.35,0.2,0.4,0. 16,0.08,0.15,0.1,0.18,0.24,0.2,0.4,0.3,0.4,0.2,0.3,0.3,0.3,0.3,0.3,0.5,0.4, 0.25, 0.35, 0.1, 0.1, 0.1, 0.1, 0.1, 0.4, 0.25, 0.4, 0.17, 0.15, 0.08, 0.13, 0.35, 0.14, 0.16,16,0.39,0.5,0.39,0.1,0.3,0.2,0.05,0.05,0.14,0.1,0.15,0.05,0.4,0.35,0.3,0.2, 0.45,0.2,0.3,0.2,0.2,0.35,0.35,0.4,0.3,0.25,0.1,0.25,0.15,0.1,0.35,0.2,0.5, 0.3,0.15,0.13,0.08,0.35,0.18,0.25,0.2,0.4,0.45,0.16,0.3,0.15,0.1,0.1,0.15,0

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.2, 0.35, 0.4, 0.3, 0.17, 0.2, 0.1, 0.2, 0.18, 0.1, 0.15, 0.15, 0.42, 0.15, 0.03, 0.4, 0.0533,0.33,0.22,0.1,0.2,0.15,0.1,0.15,0.08,0.1,0.4,0.4,0.15,0.3,0.1,0.1,0.2,0. 15,0.15,0.1,0.2,0.4,0.16,0.25,0.13,0.14,0.14,0.16,0.16,0.15,0.38,0.38,0.33, .15,0.15,0.4,0.4,0.12,0.4,0.17,0.16,0.12,0.15,0.14,0.1,0.25,0.4,0.15,0.15,0 .05,0.15,0.2,0.15,0.1,0.1,0.5,0.35,0.6,0.4,0.55,0.75,0.55,0.3,0.6,0.4,0.7,0 .7,0.2,0.25,0.05,0.25,0.2,0.15,0.2,0.2,0.3,0.4,0.3,0.25,0.1,0.1,0.1,0.1,0.1 5,0.1,0.2,0.4,0.18,0.2,0.17,0.17,0.13,0.15,0.21,0.2,0.37,0.4,0.2,0.2,0.1,0. 25,0.1,0.1,0.05,0.09,0.4,0.3,0.25,0.35,0.35,0.05,0.25,0.1,0.3,0.25,0.3,0.35 ,0.78,0.12,0.2,0.3,0.4,0.1,0.2,0.4,0.68,0.2,0.28,0.18,0.25,0.35,0.1,0.07,0. 21,0.24,0.35,0.5,0.3,0.7,0.2,0.2,0.6,0.2,0.2,0.1,0.4,0.3,0.15,0.3,0.15,0.15 ,0.15,0.1,0.1,0.1,0.45,0.3,0.2,0.2,0.15,0.3,0.05,0.1,0.1,0.2,0.45,0.35,0.2, 0.35,0.25,0.1,0.15,0.1,0.2,0.15,0.4,0.25,0.5,0.1,0.05,0.08,0.3,0.1,0.05,0.1 ,0.5,0.4,0.25,0.05,0.1,0.1,0.2,0.05,0.15,0.2,0.3,0.25,0.3,0.5,0.1,0.15,0.15 ,0.15,0.25,0.25,0.33,0.4,0.2,0.15,0.18,0.15,0.15,0.2,0.09,0.1,0.4,0.3,0.22, 0.35,0.1,0.08,0.06,0.15,0.2,0.2,0.45,0.2,0.25,0.26,0.12,0.12,0.17,0.01,0.14 ,0.17,0.3,0.35,0.45,0.2,0.08,0.1,0.15,0.2,0.2,0.35,0.3,0.45,0.7,0.6,0.4,0.3 ,0.65,0.2,0.5,0.3,0.65,0.75,0.15,0.3,0.1,0.2,0.15,0.1,0.05,0.35,0.55,0.15,0 .25, 0.3, 0.2, 0.15, 0.2, 0.15, 0.15, 0.1, 0.25, 0.4, 0.18, 0.25, 0.19, 0.17, 0.18, 0.1, 0.16,0.18,0.35,0.37,0.25,0.15,0.15,0.2,0.2,0.25,0.3,0.3,0.4,0.65,0.25,0.2,0.2 ,0.14,0.1,0.15,0.18,0.11,0.65,0.3,0.15,0.4,0.15,0.1,0.3,0.25,0.05,0.1,0.25, 0.35,0.35,0.3,0.15,0.1,0.1,0.35,0.2,0.3,0.4,0.4,0.45,0.25,0.15,0.01,0.05,0. 05,0.1,0.25,0.15,0.5,0.12,0.33,0.13,0.12,0.14,0.15,0.12,0.12,0.33,0.33,0.15 ,0.2,0.08,0.06,0.1,0.05,0.1,0.11,0.5,0.3,0.14,0.1,0.2,0.14,0.2,0.14,0.3,0.2 5,0.4,0.4,0.2,0.25,0.2,0.2,0.15,0.18,0.2,0.25,0.4,0.4,0.37,0.21,0.11,0.12,0 .08, 0.12, 0.27, 0.48, 0.29, 0.6, 0.18, 0.33, 0.15, 0.12, 0.14, 0.15, 0.15, 0.14, 0.33, 0.33,0.2,0.3,0.2,0.15,0.15,0.1,0.1,0.15,0.4,0.4,0.4,0.15,0.33,0.2,0.1,0.1,0.2 ,0.3,0.25,0.5,0.15,0.2,0.25,0.15,0.3,0.15,0.08,0.08,0.08,0.35,0.1,0.1,0.2,0 .25, 0.3, 0.1, 0.1, 0.1, 0.4, 0.5, 0.3, 0.25, 0.1, 0.2, 0.2, 0.1, 0.15, 0.4, 0.25, 0.5, 0.15,0.2,0.2,0.2,0.15,0.1,0.15,0.2,0.3,0.3,0.1,0.28,0.12,0.08,0.2,0.2,0.15,0.18 ,0.35,0.4,0.4,0.39,0.4,0.2,0.05,0.3,0.5,0.19,0.43,0.5,0.16,0.3,0.35,0.7,0.4 5,0.2,0.35,0.25,0.7,0.2,0.23,0.45,0.2,0.1,0.1,0.15,0.2,0.05,0.28,0.35,0.15, 0.2,0.1,0.1,0.1,0.15,0.2,0.2,0.5,0.3,0.25,0.2,0.03,0.2,0.16,0.1,0.22,0.15,0 .33,0.5,0.12,0.25,0.09,0.2,0.15,0.15,0.09,0.12,0.25,0.35,0.2,0.2,0.05,0.000 5,0.15,0.2,0.65,0.2,0.15,0.65,0.15,0.25,0.13,0.07,0.07,0.18,0.15,0.15,0.3,0 .45, 0.2, 0.5, 0.15, 0.2, 0.12, 0.1, 0.08, 0.15, 0.4, 0.22, 0.2, 0.4, 0.05, 0.05, 0.05, 0.35,0.15,0.3,0.2,0.4,0.3,0.1,0.05,0.3,0.05,0.05,0.15,0.15,0.5,0.4,0.35,0.25,0 .1, 0.2, 0.18, 0.28, 0.14, 0.15, 0.2, 0.45, 0.1, 0.15, 0.1, 0.12, 0.12, 0.12, 0.08, 0.2, 0.4,0.45,0.2,0.4,0.1,0.1,0.3,0.05,0.1,0.3,0.3,0.3,0.3,0.3,0.2,0.2,0.2,0.2,0.2,0.1, 0.05,0.15,0.33,0.65,0.35,0.15,0.25,0.35,0.15,0.05,0.02,0.2,0.45,0.4,0.2,0.2 ,0.2,0.05,0.05,0.2,0.25,0.5,0.4,0.35,0.4,0.2,0.25,0.1,0.4,0.2,0.2,0.25,0.5, 0.45, 0.15, 0.2, 0.25, 0.15, 0.15, 0.1, 0.2, 0.6, 0.25, 0.2, 0.4, 0.1, 0.2, 0.15, 0.2, 0.25,0.1,0.4,0.2,0.25,0.35,0.15,0.2,0.15,0.15,0.15,0.15,0.15,0.35,0.3,0.999,0.2,0.66 ,0.999,0.999,0.999,0.66,0.999,0.6,0.2,0.35,0.3,0.2,0.08,0.1,0.09,0.05,0.22, 0.5, 0.15, 0.15, 0.2, 0.4, 0.15, 0.3, 0.15, 0.05, 0.1, 0.2, 0.6, 0.2, 0.2, 0.1, 0.1, 0.2, 0.1,0.5,0.3,0.4,0.3,0.2,0.25,0.35,0.3,0.1,0.2,0.05,0.1,0.4,0.5,0.23,0.1,0.12, .05, 0.3, 0.04, 0.1, 0.08, 0.2, 0.45, 0.3, 0.2, 0.6, 0.2, 0.5, 0.02, 0.25, 0.3, 0.4, 0.3, 0.1,0.1,0.4,0.3,0.2,0.05,0.15,0.15,0.2,0.15,0.15,0.4,0.4,0.65,0.75,0.12,0.2,0 .2, 0.12, 0.25, 0.4, 0.3, 0.3, 0.25, 0.3, 0.1, 0.15, 0.25, 0.05, 0.15, 0.4, 0.5, 0.3, 0.15, 0.0.33,0.15,0.13,0.15,0.16,0.15,0.15,0.33,0.33,0.2,0.15,0.1,0.1,0.1,0.2,0.2,0 .05, 0.15, 0.15, 0.25, 0.3, 0.35, 0.55, 0.35, 0.2, 0.25, 0.1, 0.15, 0.15, 0.25, 0.15, 0.10.4, 0.4, 0.05, 0.25, 0.1, 0.4, 0.1, 0.15, 0.15, 0.1, 0.5, 0.35, 0.03, 0.03, 0.03, 0.04, 0.03,0.01,0.03,0.03,0.04,0.02,0.2,0.4,0.1,0.2,0.1,0.15,0.3,0.3,0.25,0.3,0.3,0 .1,0.35,0.1,0.15,0.1,0.4,0.2,0.75,0.15,0.1,0.25,0.22,0.2,0.13,0.5,0.23,0.1, 0.35,0.4,0.2,0.2,0.1,0.15,0.15,0.25,0.3,0.2,0.4,0.4,0.25,0.08,0.15,0.08,0.1 2,0.1,0.22,0.2,0.26,0.6,0.35,0.3,0.17,0.2,0.2,0.15,0.15,0.4,0.45,0.3,0.13,0 .33,0.13,0.13,0.14,0.14,0.15,0.15,0.33,0.33,0.15,0.2,0.18,0.15,0.25,0.05,0.

15,0.2,0.45,0.3,0.5,0.3,0.2,0.4,0.05,0.2,0.2,0.2,0.45,0.5,0.65,0.45,0.1,0.0 005,0.15,0.3,0.1,0.05,0.35,0.3,0.1,0.25,0.2,0.1,0.2,0.15,0.15,0.2,0.5,0.2,0 .23, 0.15, 0.17, 0.13, 0.22, 0.13, 0.23, 0.13, 0.33, 0.5, 0.17, 0.25, 0.1, 0.1, 0.1, 0.2, 0.22, 0.08, 0.4, 0.43, 0.2, 0.35, 0.05, 0.15, 0.18, 0.2, 0.2, 0.2, 0.15, 0.5, 0.15, 0.25, 0.15,0.25,0.3,0.3,0.1,0.15,0.2,0.3,0.14,0.35,0.17,0.16,0.14,0.13,0.07,0.16,0. 45,0.2,0.2,0.33,0.2,0.1,0.1,0.1,0.1,0.2,0.33,0.33,0.22,0.25,0.1,0.1,0.1,0.2 ,0.15,0.2,0.4,0.35,0.2,0.45,0.2,0.2,0.2,0.1,0.25,0.25,0.65,0.3,0.3,0.1,0.1, 0.2,0.1,0.2,0.1,0.1,0.5,0.4,0.25,0.23,0.33,0.33,0.1,0.1,0.1,0.1,0.37,0.4,0. 25, 0.3, 0.05, 0.2, 0.2, 0.15, 0.1, 0.15, 0.4, 0.3, 0.5, 0.25, 0.2, 0.1, 0.05, 0.05, 0.1, 0.15,0.25,0.5,0.24,0.2,0.18,0.19,0.2,0.15,0.1,0.18,0.5,0.3,0.3,0.33,0.06,0.16 ,0.2,0.3,0.55,0.16,0.4,0.25,0.3,0.3,0.05,0.2,0.1,0.2,0.1,0.05,0.4,0.3,0.1,0 .2, 0.2, 0.2, 0.4, 0.1, 0.1, 0.05, 0.35, 0.65, 0.2, 0.4, 0.02, 0.05, 0.1, 0.3, 0.05, 0.2, 0.4,0.3,0.3,0.4,0.1,0.2,0.05,0.1,0.2,0.1,0.25,0.35,0.2,0.4,0.13,0.13,0.17,0.1 8,0.18,0.25,0.45,0.2,0.31,0.28,0.26,0.07,0.08,0.1,0.29,0.12,0.31,0.36,0.4,0 .2,0.3,0.2,0.2,0.3,0.2,0.3,0.6,0.4,0.15,0.12,0.1,0.05,0.15,0.15,0.2,0.15,0. 45,0.43,0.4,0.5,0.05,0.05,0.05,0.5,0.2,0.1,0.3,0.35,0.15,0.25,0.15,0.15,0.1 6,0.2,0.18,0.1,0.5,0.25,0.15,0.3,0.15,0.15,0.2,0.15,0.15,0.15,0.3,0.4,0.25, 0.15, 0.08, 0.22, 0.2, 0.3, 0.15, 0.1, 0.5, 0.3, 0.14, 0.33, 0.14, 0.105,0.1,0.05,0.1,0.3,0.3,0.5,0.15,0.3,0.2,0.15,0.1,0.15,0.15,0.05,0.3,0.3,0. 2,0.4,0.12,0.1,0.15,0.1,0.15,0.2,0.25,0.35,0.2,0.4,0.2,0.15,0.1,0.1,0.1,0.1 ,0.4,0.2,0.3,0.2,0.1,0.2,0.2,0.2,0.05,0.1,0.4,0.3,0.5,0.15,0.1,0.1,0.3,0.1, 0.1,0.0005,0.3,0.55,0.2,0.35,0.12,0.2,0.2,0.2,0.15,0.15,0.14,0.3,0.4,0.2,0.25,0 .2,0.15,0.05,0.05,0.15,0.2,0.4,0.4,0.2,0.35,0.3,0.3,0.2,0.15,0.25,0.2,0.2,0 .3,0.1,0.25,0.1,0.15,0.3,0.15,0.1,0.35,0.4,0.35,0.35,0.6,0.15,0.1,0.2,0.3,0 .3,0.25,0.37,0.3,0.05,0.3,0.2,0.2,0.1,0.3,0.07,0.23,0.25,0.4,0.25,0.5,0.15, 0.1,0.1,0.1,0.3,0.08,0.65,0.1,0.35,0.2,0.4,0.07,0.13,0.13,0.13,0.1,0.23,0.6 ,0.2,0.25,0.2,0.15,0.1,0.1,0.05,0.3,0.35,0.35,0.15,0.3,0.1,0.1,0.2,0.15,0.2 ,0.15,0.3,0.4,0.25,0.35,0.1,0.05,0.05,0.45,0.1,0.1,0.25,0.4,0.1,0.25,0.15,0 .1,0.2,0.2,0.17,0.15,0.4,0.4,0.65,0.15,0.05,0.1,0.15,0.05,0.05,0.1,0.55,0.3 ,0.35,0.33,0.05,0.35,0.1,0.15,0.15,0.15,0.33,0.33,0.15,0.25,0.2,0.15,0.2,0. 1,0.1,0.2,0.2,0.5,0.18,0.4,0.12,0.15,0.1,0.1,0.15,0.1,0.4,0.25,0.18,0.2,0.1 4,0.12,0.23,0.08,0.05,0.15,0.22,0.45,0.45,0.45,0.25,0.25,0.24,0.1,0.25,0.35, 0.25,0.6,0.23,0.46,0.14,0.12,0.26,0.1,0.1,0.4,0.45,0.15,0.3,0.3,0.1,0.1,0.1 ,0.2,0.1,0.2,0.5,0.2,0.35,0.3,0.3,0.2,0.15,0.6,0.2,0.0005,0.4,0.5,0.2,0.25, 0.15,0.2,0.15,0.15,0.1,0.0005,0.25,0.5,0.28,0.15,0.05,0.13,0.08,0.1,0.4,0.1 5,0.35,0.5,0.3,0.1,0.2,0.2,0.1,0.05,0.1,0.05,0.4,0.03,0.2,0.25,0.15,0.1,0.2 ,0.15,0.2,0.15,0.4,0.35,0.4,0.35,0.25,0.2,0.3,0.45,0.2,0.35,0.35,0.2,0.1,0. 3,0.2,0.3,0.15,0.3,0.05,0.1,0.4,0.3,0.2,0.33,0.15,0.15,0.0005,0.15,0.2,0.15 (0.33, 0.33), .Dim = c(267, 10))

### Model 0

```
# This model reproduces See's original regression model, but differs
# insofar as it uses beta regression and allows for random intercepts
# in the location submodel.
\# The DV x1 is the partition prime (either \ln(1/2) or \ln(1/6)), and
# x2 is ln(true odds) of the jth stimulus for each subject. Note that
# while it's fixed for the "target" stimuli it's random for the rest.
#
# To run this model, delete the string
# R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim = c(3, 3)),
# from the first line in the data above.
#
model
## Main routine
for(i in 1:N){
  for(j in 1:10){
m[i,j] <- beta0 + u[i] + beta1*x1[j] + beta2*x2[i,j]</pre>
disp[i,j] <- -delta0</pre>
```

```
E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))</pre>
phi[i,j] <- exp(disp[i,j])</pre>
a[i,j] <- E[i,j]*phi[i,j]
b[i,j] <- (1-E[i,j])*phi[i,j]</pre>
p[i,j] ~ dbeta(a[i,j], b[i,j])
u[i] ~ dnorm(0,taub1)
## location and dispersion
mu0 <- \exp(beta0)/(1+\exp(beta0))
mul <- exp(betal)/(1+exp(betal))</pre>
mu2 <- exp(beta2)/(1+exp(beta2))
phi0 <- exp(-delta0)</pre>
## Priors
beta0 \sim dnorm(0.0, 1.0E-6)
betal ~ dnorm(0.0, 1.0E-6)
beta2 \sim dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
sigb1 ~ dunif(0,100)
taub1 <- 1/(sigb1*sigb1)</pre>
ł
# Inits for 2-chain model
# Note that these leave out the 267 initial values for the
# random effects u-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1)
```

Recommended burn-in = 5000 iterations, recommended estimation = 5000 more iterations.

#### Model 1

```
# This model reproduces See's original regression model, but differs
# insofar as it uses beta regression and allows for random coefficients
# in the location submodel. These random effects are independent.
#
# To run this model, delete the string
# R = structure(.Data = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .Dim = c(3, 3)),
# from the first line in the data above.
#
model
## Main routine
for(i in 1:N){
  for(j in 1:10){
m[i,j] <- beta0 + u[i,1] + (beta1 + u[i,2])*x1[j] + (beta2 + u[i,3])*x2[i,j]</pre>
disp[i,j] <- -delta0</pre>
E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))</pre>
phi[i,j] <- exp(disp[i,j])</pre>
a[i,j] <- E[i,j]*phi[i,j]</pre>
b[i,j] <- (1-E[i,j])*phi[i,j]</pre>
p[i,j] \sim dbeta(a[i,j], b[i,j])
u[i,1] ~ dnorm(0,taub1)
u[i,2] \sim dnorm(0,taub2)
u[i,3] ~ dnorm(0,taub3)
## location and dispersion
mu0 < - \exp(beta0)/(1+\exp(beta0))
mul <- exp(betal)/(1+exp(betal))</pre>
mu2 <- exp(beta2)/(1+exp(beta2))
```

```
phi0 <- exp(-delta0)</pre>
## Priors
beta0 ~ dnorm(0.0, 1.0E-6)
betal ~ dnorm(0.0, 1.0E-6)
beta2 \sim dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
sigl \sim dunif(0,100)
taub1 <- 1/(sig1*sig1)</pre>
sig2 \sim dunif(0,100)
taub2 <- 1/(sig2*sig2)</pre>
sig3 ~ dunif(0,100)
taub3 <- 1/(sig3*sig3)</pre>
}
# Inits for 2-chain model
# Note that these leave out the 267x3 initial values for the
# random effects u-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1, sig1 = 1.0, sig2 = 1.0,
sig3 = 0.5)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1, sig1 = 0.5, sig2 = 1.0,
sig3 = 1.0)
```

Recommended burn-in = 5000 iterations, recommended estimation = 5000 more iterations.

#### Model 2

```
# This model reproduces See's original regression model, but differs
# insofar as it uses beta regression and allows for random coefficients
# in the location submodel. These random effects are correlated.
#
# To run this model, make sure the string
\# R = \text{structure}(.\text{Data} = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .\text{Dim} = c(3, 3)),
# is in the first line in the data above.
#
model
## Main routine
for (j in 1:3) {
mu[j] <- 0.0
for(i in 1:N){
  for(j in 1:10){
m[i,j] <- beta0 + u[i,1] + (beta1 + u[i,2])*x1[j] + (beta2 +</pre>
u[i,3])*x2[i,j]
disp[i,j] <- -delta0</pre>
E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))</pre>
phi[i,j] <- exp(disp[i,j])</pre>
a[i,j] <- E[i,j]*phi[i,j]</pre>
b[i,j] <- (1-E[i,j])*phi[i,j]</pre>
p[i,j] ~ dbeta(a[i,j], b[i,j])
u[i,1:3] ~ dmnorm(mu[], Omega[ , ])
## location and dispersion
mu0 < - \exp(beta0)/(1+\exp(beta0))
mul <- exp(betal)/(1+exp(betal))</pre>
mu2 < - \exp(beta2)/(1+\exp(beta2))
phi0 <- exp(-delta0)</pre>
## Priors
beta0 ~ dnorm(0.0, 1.0E-6)
```

```
betal ~ dnorm(0.0, 1.0E-6)
beta2 ~ dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
Omega[1 : 3 , 1 : 3] ~ dwish(R[,], 3)
Sigma[1 : 3 , 1 : 3] <- inverse(Omega[,])
}
# Inits for 2-chain model
# Note that these leave out the 267x3 initial values for the
# random effects u-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1)
```

Recommended burn-in = 5000 iterations, recommended estimation = 5000 more iterations.

### Model with Random Intercept in Dispersion Submodel

```
# To run this model, delete the string
\# R = \text{structure}(.\text{Data} = c(1, 0, 0, 0, 1, 0, 0, 0, 1), .\text{Dim} = c(3, 3)),
# from the first line in the data above.
#
model
## Main routine
for(i in 1:N){
 for(j in 1:10){
m[i,j] <- beta0 + beta1*x1[j] + beta2*x2[i,j]</pre>
disp[i,j] <- -delta0 + v[i]</pre>
E[i,j] <- exp(m[i,j])/(1+exp(m[i,j]))</pre>
phi[i,j] <- exp(disp[i,j])</pre>
a[i,j] <- E[i,j]*phi[i,j]</pre>
b[i,j] <- (1-E[i,j])*phi[i,j]</pre>
p[i,j] ~ dbeta(a[i,j], b[i,j])
v[i] ~ dnorm(0,tauv)
## location and dispersion
mu0 <- \exp(beta0)/(1+\exp(beta0))
mul <- exp(betal)/(1+exp(betal))</pre>
mu2 < - \exp(beta2)/(1+\exp(beta2))
phi0 <- exp(-delta0)</pre>
## Priors
beta0 \sim dnorm(0.0, 1.0E-6)
betal ~ dnorm(0.0, 1.0E-6)
beta2 \sim dnorm(0.0, 1.0E-6)
delta0 ~ dnorm(0.0, 1.0E-6)
sigv \sim dunif(0,100)
tauv <- 1/(sigv*sigv)</pre>
# Inits for 2-chain model
# Note that these leave out the 267 initial values for the
# random effects v-terms. However, BUGs seems to do a reasonable
# job of generating them.
list(beta0 = 0.0, beta1 = 0.1, beta2 = 0.1, delta0 = 0.1, sigv = 1.0)
list(beta0 = 0.1, beta1 = 0.0, beta2 = 0.1, delta0 = 0.1, sigv = 0.5)
```

This model takes longer than the others to converge. Recommended burn-in = 10000 iterations, recommended estimation = 10000 more iterations.