Appendix A: Summary of Experimental Conditions

The table below describes the 44 experimental conditions included in the model comparison, including the number of trials, the number of words presented per trial (Words/Trial), the number of referents presented per trial (Objects/Trial), the number of to-be-learned word-referent pairs (Items), people's overall mean accuracy (p(o|w)) across all intended w-o mappings) in each condition (Accuracy), the standard deviation of performance (SD), and the number of participants per condition (N).

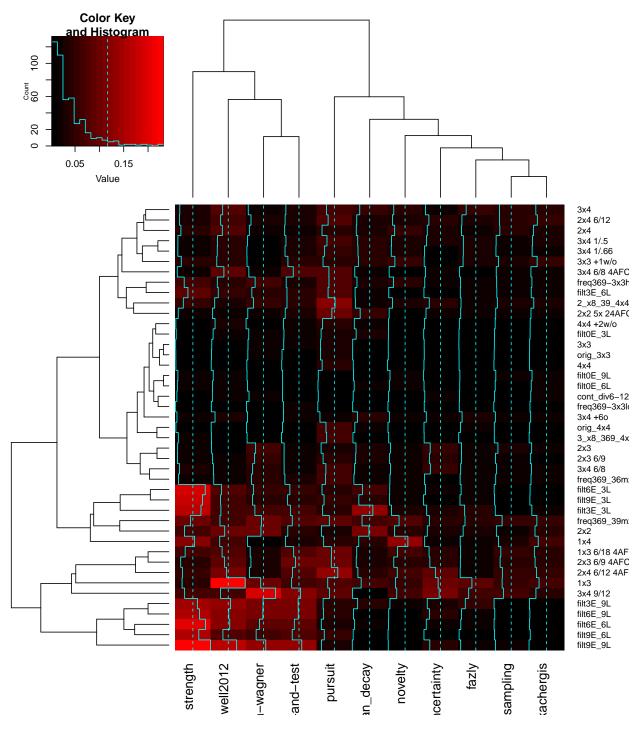
Appendix B: Clustering experiments and models by misfit

The table below shows model fit (SSE; sum of squared error) for each experimental condition.

Model fit x Experiment table? maybe clustered...? (to show most similar models, and most similar experiments?)

3x4 36 3 4 18 0.19 0.12 25 3x4 1/.66 36 3 4 18 0.22 0.11 25 3x4 1/.66 36 3 4 18 0.27 0.12 20 2x4 54 2 4 18 0.30 0.15 33 3x3 + 1w/o 54 3 3 18 0.17 0.08 39 1x3 6/18 4AFC 54 4 4 18 0.10 0.05 39 1x3 6/18 4AFC 108 1 3 18 0.67 0.10 43 2x3 6/9 4AFC 54 2 3 18 0.67 0.10 43 2x4 6/12 4AFC 54 2 4 18 0.69 0.09 36 1x3 108 1 3 18 0.69 0.09 36 1x3 108 1 3 18 0.59 0.09 <th< th=""><th>Condition Name</th><th>Trials</th><th>Words/Trial</th><th>Objects/Trial</th><th>Items</th><th>Accuracy</th><th>SD</th><th>N</th></th<>	Condition Name	Trials	Words/Trial	Objects/Trial	Items	Accuracy	SD	N
3x4 1/.5 36 3 4 18 0.22 0.11 25 3x4 1/.66 36 3 4 18 0.21 0.09 25 2x4 54 2 4 18 0.27 0.12 20 2x4 54 2 4 18 0.30 0.15 33 3x3 +1w/o 54 4 4 18 0.17 0.08 39 4x4 +2w/o 54 4 4 18 0.10 0.05 39 1x3 6/9 4AFC 108 1 3 18 0.69 0.11 38 2x4 6/12 4AFC 54 2 3 18 0.69 0.11 38 1x3 108 1 3 18 0.69 0.11 38 2x4 6/12 54 2 4 18 0.69 0.09 36 1x3 18 0.55 0.07 23 3 18 0.55 0.07<		36	,	· /	18		0.12	25
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$3x4 \ 1/.5$	36		4	18	0.22	0.11	25
3x4 + 6o 36 3 4 18 0.27 0.12 20 2x4 54 2 4 18 0.30 0.15 33 3x3 + 1 lw/o 54 3 3 18 0.17 0.08 39 4x4 + 2w/o 54 4 4 18 0.10 0.05 39 1x3 6/18 4AFC 108 1 3 18 0.67 0.10 43 2x3 6/9 4AFC 54 2 3 18 0.69 0.11 38 2x4 6/12 4AFC 54 2 4 18 0.69 0.09 36 1x3 108 1 3 18 0.67 0.11 23 2x4 6/12 54 2 3 18 0.55 0.07 23 2x4 6/12 54 2 3 18 0.55 0.07 23 2x4 6/12 54 2 3 18 0.55 0.01	'							
2x4 54 2 4 18 0.30 0.15 33 3x3 + 1w/o 54 3 3 18 0.17 0.08 39 1x3 6/18 4AFC 108 1 3 18 0.10 0.05 39 1x3 6/18 4AFC 108 1 3 18 0.67 0.10 43 2x4 6/12 4AFC 54 2 3 18 0.69 0.11 38 2x4 6/12 4AFC 54 2 4 18 0.62 0.12 31 3x4 6/8 4AFC 36 3 4 18 0.62 0.12 31 2x3 54 2 3 18 0.58 0.07 23 2x4 6/12 54 2 3 18 0.58 0.07 23 2x4 6/12 54 2 3 18 0.55 0.01 13 3x4 6/8 36 3 4 18 0.43 0.08	'	36		4	18	0.27	0.12	20
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		54		4	18	0.30	0.15	33
1x3 6/18 4AFC	3x3 + 1w/o	54	3	3	18	0.17	0.08	39
1x3 6/18 4AFC		54	4	4	18	0.10	0.05	39
2x4 6/12 4AFC 54 2 4 18 0.62 0.12 31 3x4 6/8 4AFC 36 3 4 18 0.69 0.09 36 1x3 108 1 3 18 0.74 0.11 23 2x3 54 2 3 18 0.58 0.07 23 2x4 6/12 54 2 4 18 0.33 0.18 14 3x4 6/8 36 3 4 18 0.42 0.14 13 2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.69 0.08 33 1x4 108 1 3 18 0.43 0.09 0.12 40 4x4 27 4 4 18 0.31 0.07 <t< td=""><td></td><td>108</td><td>1</td><td>3</td><td>18</td><td>0.67</td><td>0.10</td><td>43</td></t<>		108	1	3	18	0.67	0.10	43
3x4 6/8 4AFC 36 3 4 18 0.69 0.09 36 1x3 108 1 3 18 0.74 0.11 23 2x3 54 2 3 18 0.58 0.07 23 2x4 6/12 54 2 4 18 0.33 0.18 14 3x4 6/8 36 3 4 18 0.42 0.14 13 2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.49 0.08 33 1x4 18 0.19 0.10 40 44 18 0.19 0.10 40 4x4 27 4 4 18 0.31 0.02 </td <td>2x3 6/9 4AFC</td> <td>54</td> <td>2</td> <td>3</td> <td>18</td> <td>0.69</td> <td>0.11</td> <td>38</td>	2x3 6/9 4AFC	54	2	3	18	0.69	0.11	38
1x3 108 1 3 18 0.74 0.11 23 2x3 54 2 3 18 0.58 0.07 23 2x4 6/12 54 2 4 18 0.42 0.14 13 3x4 6/8 36 3 4 18 0.42 0.14 13 2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 5x 24 2 2 18 0.79 0.11 19	2x4 6/12 4AFC	54	2	4	18	0.62	0.12	31
1x3 108 1 3 18 0.74 0.11 23 2x3 54 2 3 18 0.58 0.07 23 2x4 6/12 54 2 4 18 0.33 0.18 14 3x4 6/8 36 3 4 18 0.42 0.14 13 2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19	3x46/84AFC	36	3	4	18	0.69	0.09	36
2x4 6/12 54 2 4 18 0.33 0.18 14 3x4 6/8 36 3 4 18 0.42 0.14 13 2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 2 4 0.51 0.12 46 filt3E_3L 18 2 2 12 0.72 0.12 30	•	108	1	3	18	0.74	0.11	23
3x4 6/8 36 3 4 18 0.42 0.14 13 2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 18 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.70 0.08 31	2x3	54	2	3	18	0.58	0.07	23
2x3 6/9 54 2 3 18 0.55 0.11 32 3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 18 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 31	2x4 6/12	54	2	4	18	0.33	0.18	14
3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 18 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 </td <td>3x46/8</td> <td>36</td> <td>3</td> <td>4</td> <td>18</td> <td>0.42</td> <td>0.14</td> <td>13</td>	3x46/8	36	3	4	18	0.42	0.14	13
3x4 9/12 54 3 4 18 0.69 0.08 33 1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 18 2 2 12 0.72 0.12 30 filt6E_3L 18 2 2 12 0.71 0.09 31 filt9E_3L 45 2 2 12 0.70 0.08 31	2x3 6/9	54	2	3	18	0.55	0.11	32
1x4 108 1 4 18 0.19 0.10 40 1x3 108 1 3 18 0.39 0.12 40 4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 18 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_6L 36 2 2 12 0.77 0.08 31 filt6E_6L 54 2 2 12 0.67 0.11 27 <	'	54		4	18	0.69	0.08	33
4x4 27 4 4 18 0.31 0.07 77 3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 27 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.70 0.08 31 filt6E_6L 45 2 2 12 0.67 0.11 27 filt6E_9L 54 2 2 12 0.75 0.09 27<	•	108	1	4	18	0.19	0.10	40
3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 27 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt9E_9L 54 2 2 12 0.54 0.09 <	1x3	108	1	3	18	0.39	0.12	40
3x3 36 3 3 18 0.43 0.08 36 2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 27 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 <	4x4	27	4	4	18	0.31	0.07	
2x2 54 2 2 18 0.79 0.11 19 2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 27 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.71 0.09 30 filt9E_6L 36 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt0E_9L 54 2 2 12 0.75 0.09 27 filt6E_9L 72 2 2 12 0.83 0.08	3x3	36	3	3		0.43	0.08	
2x2 5x 24AFC 60 2 2 24 0.51 0.12 46 filt0E_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 27 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt0E_9L 63 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4	2x2	54	2		18	0.79	0.11	19
filtoE_3L 18 2 2 12 0.38 0.09 31 filt3E_3L 27 2 2 12 0.72 0.12 30 filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt6E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08	2x2 5x 24AFC	60			24	0.51	0.12	46
filt6E_3L 36 2 2 12 0.71 0.09 30 filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_3x3lcD 36 3 3 18 0.33	$filt0E_3L$	18	2	2	12	0.38	0.09	31
filt9E_3L 45 2 2 12 0.70 0.08 31 filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.08 102 freq369_3x3hiCD 36 3 3 18 0.45	$filt3E_3L$	27	2	2	12	0.72	0.12	30
filtoE_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369_3x3hiCD 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62	$filt6E_3L$	36	2	2	12	0.71	0.09	30
filt0E_6L 36 2 2 12 0.47 0.11 27 filt3E_6L 45 2 2 12 0.67 0.11 27 filt6E_6L 54 2 2 12 0.79 0.09 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369_3x3hiCD 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.45	filt9E 3L	45	2	2	12	0.70	0.08	31
filt6E_6L 54 2 2 12 0.79 0.09 27 filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3liCD 36 3 3 18 0.33 0.08 102 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27	$filt0E_6L$	36	2	2	12	0.47	0.11	27
filt9E_6L 63 2 2 12 0.75 0.09 27 filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 3 18 0.33 0.08 102 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$filt3E_6L$	45	2	2	12	0.67	0.11	27
filt0E_9L 54 2 2 12 0.54 0.09 31 filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 3 18 0.33 0.08 102 freq369-3s3hiCD 36 3 3 18 0.56 0.12 26 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$\mathrm{filt}6\mathrm{E}_6\mathrm{L}$	54	2	2	12	0.79	0.09	27
filt3E_9L 63 2 2 12 0.83 0.08 31 filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 3 18 0.33 0.08 102 freq369-3x3hiCD 36 3 3 18 0.56 0.12 26 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$filt9E_6L$	63	2	2	12	0.75	0.09	27
filt6E_9L 72 2 2 12 0.82 0.09 31 filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 3 18 0.33 0.08 102 freq369-3x3hiCD 36 3 3 18 0.56 0.12 26 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$filt0E_9L$	54	2	2	12	0.54	0.09	31
filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 18 0.33 0.08 102 freq369-3x3hiCD 36 3 18 0.56 0.12 26 freq369_36mx 36 3 18 0.45 0.16 62 freq369_39mx 36 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$filt3E_9L$	63	2	2	12	0.83	0.08	31
filt9E_9L 81 2 2 12 0.86 0.06 31 2_x8_39_4x4 27 4 4 18 0.41 0.16 30 3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 3 18 0.33 0.08 102 freq369-3x3hiCD 36 3 3 18 0.56 0.12 26 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$filt6E_9L$	72	2	2	12	0.82	0.09	31
3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 18 0.33 0.08 102 freq369-3x3hiCD 36 3 18 0.56 0.12 26 freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	$filt9E_9L$	81	2		12	0.86	0.06	31
3_x8_369_4x4 27 4 4 18 0.33 0.06 74 freq369-3x3loCD 36 3 18 0.33 0.08 102 freq369-3x3hiCD 36 3 18 0.56 0.12 26 freq369_36mx 36 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	2_x8_39_4x4	27	4	4	18	0.41	0.16	30
freq369-3x3hiCD 36 3 18 0.56 0.12 26 freq369_36mx 36 3 18 0.45 0.16 62 freq369_39mx 36 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88		27	4	4	18	0.33	0.06	74
freq369-3x3hiCD 36 3 18 0.56 0.12 26 freq369_36mx 36 3 18 0.45 0.16 62 freq369_39mx 36 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88		36	3	3				102
freq369_36mx 36 3 3 18 0.45 0.16 62 freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88	•							
freq369_39mx 36 3 3 18 0.62 0.14 66 orig_4x4 27 4 4 18 0.27 0.07 88								
orig_4x4 27 4 4 18 0.27 0.07 88	$freq369_39mx$							
	_							
	_							
cont_div6-12								

Table 1: Summary of modeled datasets.



Takeaways: Some experimental conditions are hard for particular models to fit. For example, the strength-biased model has particular difficulty with the filt conditions¹ (Kachergis et al., 2012), which present a group of word-referent pairs early in training which then systematically co-occur with particular novel late-stage word-referent pairs, testing how strictly learners will maintain a mutual exclusivity (ME) constraint. The Trueswell2012 model also shows greater misfit in most of these conditions (except for the filtXE_3L conditions, which have only 3 repetitions of the late-stage pairings, and thus do not overwhelm learners' ME bias).

 $^{^1\}mathrm{Except}$ for the $\mathtt{filt0E}$ _ conditions, which consist only of the late-stage pairs, with no early stage.

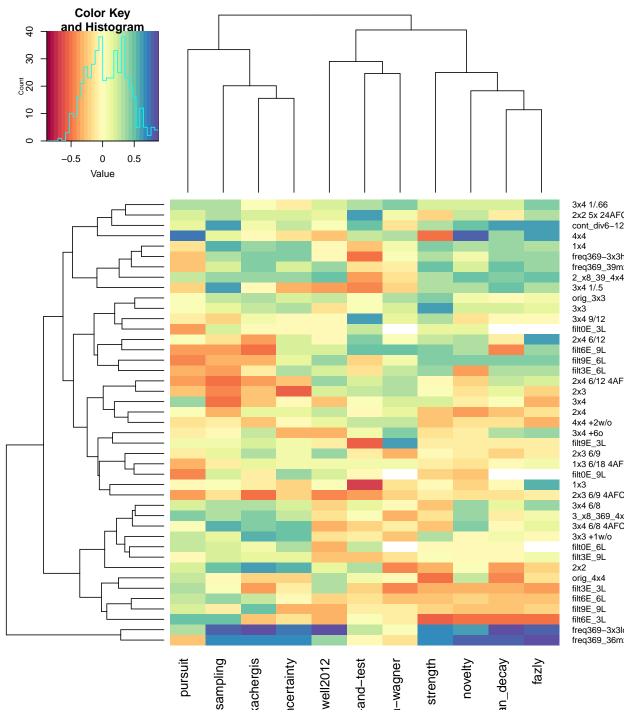
On the other hand, many experimental conditions are nearly equally well fit by all models, especially those that have a fixed number of repetitions per word-referent pair (e.g., 3x3, 4x4,)

Other ideas:

- Find experiment with maximal discrimination between the models? (highest SD of fit?)
- Find experiment that each model best predicts? and worst predicts?

Correlation of model predictions with item perforance per condition

Each cell displays the correlation coefficient of a



How many experiments is each model a best fit for? Worst fit?

##					
##	2x2 5x 24AFC	4x4	filt9E_3L	freq369_36mx	freq369-3x3loCD
##	1	1	1	2	6
##					
##	1x3	2x2	2x3	3x4 filt0E_9	L 2x3 6/9 4AFC
##	1	1	1	1	1 2
##	filt6E_3L				

##	4	

##				
##	novelty	Bayesian_decay	uncertainty	guess-and-test
##	1	3	3	4
##	kachergis	pursuit	rescorla-wagner	strength
##	4	4	4	4
##	kachergis_sampling	trueswell2012	fazly	
##	5	5	6	
##				
##	Bayesian_decay	fazly	novelty	kachergis
##	1	1	2	3
##	kachergis_sampling	uncertainty	trueswell2012	strength
##	3	3	4	5
##	pursuit	guess-and-test	rescorla-wagner	
##	6	7	8	