Original Study Patterns

(Original Study Patterns.xlsx)

This contains the original 32 randomly generated patterns used in Experiments 1 and 2. The 1st column indicates the code number for that pattern and the following 16 columns indicate which cells were black (1) or white (0) in the displayed 4x4 pattern:

<table>
<thead>
<tr>
<th>Cell 1</th>
<th>Cell 2</th>
<th>Cell 3</th>
<th>Cell 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell 5</td>
<td>Cell 6</td>
<td>Cell 7</td>
<td>Cell 8</td>
</tr>
<tr>
<td>Cell 9</td>
<td>Cell 10</td>
<td>Cell 11</td>
<td>Cell 12</td>
</tr>
<tr>
<td>Cell 13</td>
<td>Cell 14</td>
<td>Cell 15</td>
<td>Cell 16</td>
</tr>
</tbody>
</table>

Demographics Data

(Experiment 1 Demographics Data.xlsx, Experiment 2 Demographics Data.xlsx)

These contain the participant numbers, counterbalancing versions, age and gender of each participant.

Note: Participant 100 generated the PPR data for Participant 1 in experiment 1.

Raw Data

(Experiment 1 Raw Data.xlsx, Experiment 2 Raw Data.xlsx)

Within each participant’s data rows from top to bottom correspond to time earlier to later respectively – the ordinal position of trials is therefore available.

Columns

Participant – Participant number and version

Study_Pattern_Code – This is the original pattern studied (see Original Study Patterns.xlsx), or the original pattern that lead to the PPR data (see below)
Study_Pattern – This is the type of pattern studied, either an original pattern (random) or a recalled pattern from a previous participant (PPR). In Experiment 1 all PPR data was from instant tests. In Experiment 2 PPR data was from instant or delayed tests (see journal article for details).

Test_Time – This indicates if there the test was instant or if there was a 15s delay between study and recall.

Study 1-16 – This is the pattern the participant studied, coded as outline in the Original Study Patterns section above.

Recall 1-16 – This is the pattern the participant recalled.

Correct 1-16 – This indicates which cells of the recalled pattern were correctly recalled (1) and which were not correctly recalled (0)

Prop_correct – This is the overall proportion of correctly recalled cells

Notes: In Experiment 2, Participants 5 and 6 received incorrect versions of Pattern R25 and these rows are excluded: There was an error with one pattern missing (Pattern R25 PPR_instant recall) due to no previous participants getting the instant version wrong. This occurred in versions 5,6,11 &12 of the experiment. Participants 5 and 6 experienced this anomalous pattern. The experiment was then fixed but for Pattern R25 there was only the random and PPR_delayed versions. The PPR_instant version of Pattern R26 was used to replace the missing PPR_instant version of pattern R25 (the PPR_delayed and random versions of Pattern R25 are still used). This preserved the participant analyses but all three levels are not present for items analysis of Pattern R25.