Supplementary File 1

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| Task conditions | Regressors |
| Adaptation stimulus(Right/Left/Red/Green) | Test stimulus |
| Context(Motion/Colour) | Dot motion(Right/Left) | Dot colour(Red/Green) | Context(Motion/Colour) | Switch instruction(Yes/No) | Relevant input (RS)(Yes/No) | Irrelevant input (RS)(Yes/No) | Response (RS)(Yes/No) | Choice direction (Right/Left) |
| Right | Motion | Right | Red | Motion | No | Yes | No | Yes | Right |
| Right | Motion | Right | Green | Motion | No | Yes | No | Yes | Right |
| Right | Motion | Left | Red | Motion | No | No | No | No | Left |
| Right | Motion | Left | Green | Motion | No | No | No | No | Left |
| Right | Colour | Right | Red | Colour | Yes | No | Yes | Yes | Right |
| Right | Colour | Right | Green | Colour | Yes | No | Yes | No | Left |
| Right | Colour | Left | Red | Colour | Yes | No | No | Yes | Right |
| Right | Colour | Left | Green | Colour | Yes | No | No | No | Left |
| Left | Motion | Right | Red | Motion | No | No | No | No | Right |
| Left | Motion | Right | Green | Motion | No | No | No | No | Right |
| Left | Motion | Left | Red | Motion | No | Yes | No | Yes | Left |
| Left | Motion | Left | Green | Motion | No | Yes | No | Yes | Left |
| Left | Colour | Right | Red | Colour | Yes | No | No | No | Right |
| Left | Colour | Right | Green | Colour | Yes | No | No | Yes | Left |
| Left | Colour | Left | Red | Colour | Yes | No | Yes | No | Right |
| Left | Colour | Left | Green | Colour | Yes | No | Yes | Yes | Left |
| Red | Motion | Right | Red | Motion | Yes | No | Yes | Yes | Right |
| Red | Motion | Right | Green | Motion | Yes | No | No | Yes | Right |
| **Red** | **Motion** | **Left** | **Red** | **Motion** | **Yes** | **No** | **Yes** | **No** | **Left** |
| Red | Motion | Left | Green | Motion | Yes | No | No | No | Left |
| Red | Colour | Right | Red | Colour | No | Yes | No | Yes | Right |
| Red | Colour | Right | Green | Colour | No | No | No | No | Left |
| **Red** | **Colour** | **Left** | **Red** | **Colour** | **No** | **Yes** | **No** | **Yes** | **Right** |
| Red | Colour | Left | Green | Colour | No | No | No | No | Left |
| Green | Motion | Right | Red | Motion | Yes | No | No | No | Right |
| Green | Motion | Right | Green | Motion | Yes | No | Yes | No | Right |
| **Green** | **Motion** | **Left** | **Red** | **Motion** | **Yes** | **No** | **No** | **Yes** | **Left** |
| Green | Motion | Left | Green | Motion | Yes | No | Yes | Yes | Left |
| Green | Colour | Right | Red | Colour | No | No | No | No | Right |
| Green | Colour | Right | Green | Colour | No | Yes | No | Yes | Left |
| **Green** | **Colour** | **Left** | **Red** | **Colour** | **No** | **No** | **No** | **No** | **Right** |
| Green | Colour | Left | Green | Colour | No | Yes | No | Yes | Left |

**Supplementary Table 1, Task conditions and the corresponding regressors.**

The list of task conditions and corresponding regressors of the experiment are shown. The four bold lines are illustrated as examples in Figure 1B.