A   **Presence of cue identity coding**
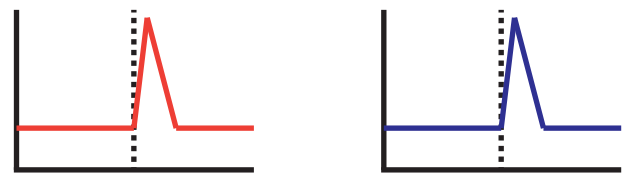
Identity not coded   Separate populations   Overlapping populations
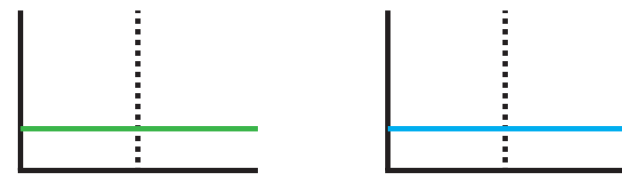
Outcome coding:

Unit A:
L1+   S1+   L2-   S2-
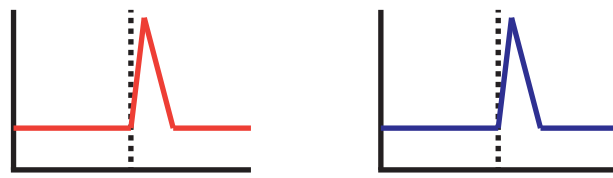
Identity coding:
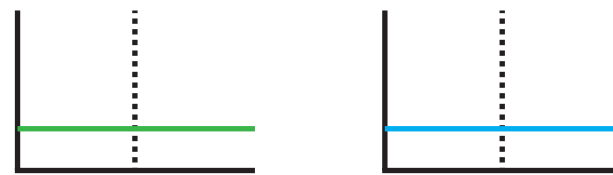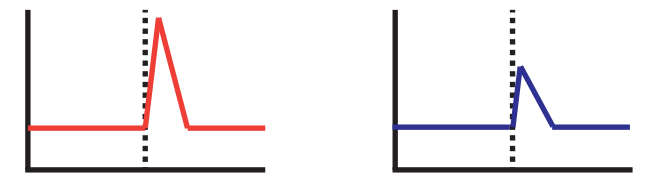
Unit B:
L1+   S1+   L2-   S2-

Unit A:
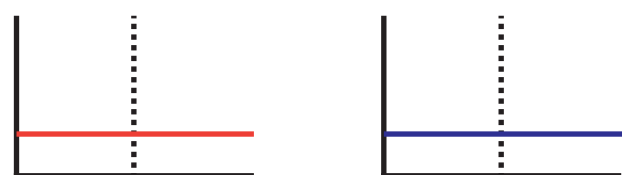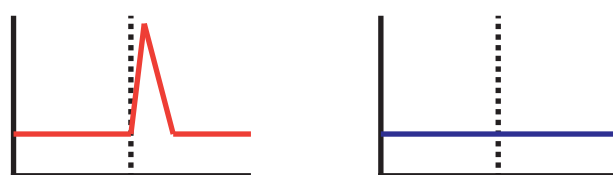L1+   S1+   L2-   S2-

Unit B:
L1+   S1+   L2-   S2-
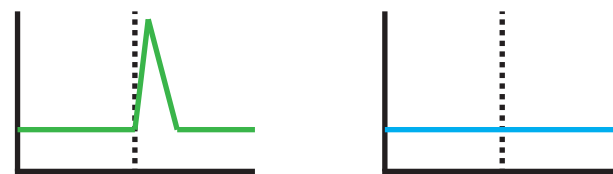
L1+   S1+   L2-   S2-

Cues used:

L1+: light reward-available
L2-: light reward-unavailable
S1+: sound reward-available
S2-: sound reward-unavailable

B   **Persistence of cue identity coding**

Transient coding   Separate populations   Overlapping populations

Unit A
Unit B
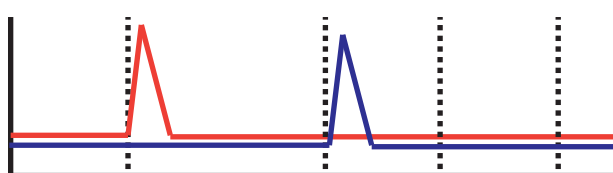
Identity coding:

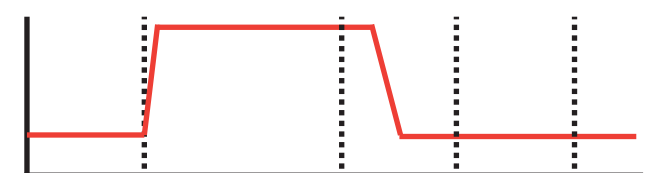Cue-ON   NP   Out   OFF   Cue-ON   NP   Out   OFF   Cue-ON   NP   Out   OFF
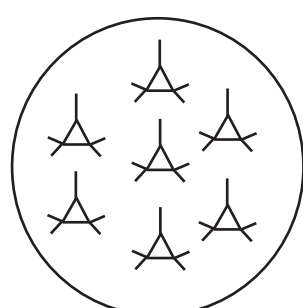
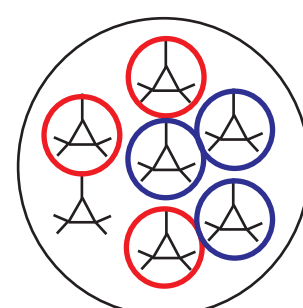**C**   **Quantification of coding across units and time epochs**

No comparison possible   Separate populations   Overlapping populations
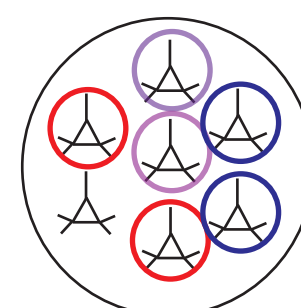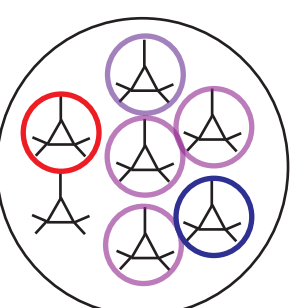
                                               independent   joint

$r = N/A$ $r < 0$ $r = 0$ $r > 0$