Engagement States Observational Coding System (eSOCS)

IDDLab contributors included:

Nan Chen and Zhe Wang (Graduate Research Assistants), Emily McClelland, Chantie Nguyen, John Yamine (Undergraduate Research Assistants), and Kirby Deater-Deckard, Ph.D. (Lab Director)

Engagement States Observational Coding System (eSOCS)

Individual: ID _____

Context – Individual or Dyad context (circle):   Ind   Dyad

1. DIST/ATT: Distraction/Attention ("off task" or "on task")

      1) Constant distraction (DIST) throughout task

      2) Substantial DIST, with only one or two instances of attention (ATT)

      3) DIST for more than half of task, with several instances of ATT

      4) DIST for about half of task, ATT for about half of task

      5) ATT for more than half of task, with several instances of DIST

      6) Substantial ATT, with only one or two instances of DIST

      7) Constant ATT throughout task

2. PA: Positive affect (smiling, laughing, excitement, enjoying the task; vocalization and/or facial expression)

      1) no instances of PA

      2) one or two instances of PA

      3) several instances of PA

      4) PA for about half of the task

      5) PA for more than half of the task, with several instances of non-PA

      6) Substantial PA, only one or two instances of non-PA

      7) Constant PA throughout the entire task

3. TCH: Touching of device and/or task materials

      1) No instances of TCH

      2) One or two instances of TCH

      3) Several instances of TCH, for less than half of task

      4) TCH for about half of task

      5) TCH for more than half of task, with several exceptions

      6) Substantial TCH, only one or two exceptions

      7) Constant TCH throughout task

4. PERS: Persistence (begins and completes task without breaking away, stopping, or giving up)

    1) no PERS; does not begin task

    2) Substantial non-PERS, begins task but stops soon after initiating

    3) PERS for less than half of task, with several instances of PERS

    4) PERS for about half of the task

    5) PERS for over half of the task with several instances of stopping

    6) Substantial PERS, only one or two instances of stopping

    7) Constant PERS, completes task with no instances of stopping

5. A/F: Anger/Frustration (vocalizations and/or facial expressions)

    1) no instances of A/F

    2) one or two instances of A/F

    3) several instances of A/F

    4) A/F for about half of the task

    5) A/F for more than half of the task, with several instances of non-A/F

    6) Substantial A/F, only one or two instances of non-A/F

    7) Constant A/F throughout the entire task

6. GMM: Gross motor movement (minor body movements [moving arms, pointing to stimuli] and major body movements [jumping, getting up and sitting down])

    1) no instances of GMM

    2) one or two instances of GMM

    3) several instances of GMM, for less than half the task

    4) GMM for about half of the task

    5) GMM for more than half of the task, with several instances of inactivity

    6) Substantial GMM, only one or two instances of inactivity

    7) Constant GMM throughout task

7. A/N: Anxious/Nervous (vocalizations and/or facial expressions)

    1) no instances of A/N

    2) one or two instances of A/N

    3) several instances of A/N, for less than half of task

    4) A/N for about half of the task

    5) A/N for more than half of task, with several instances of non-A/N

    6) Substantial A/N, only one or two instances of non-A/N

    7) Constant A/N throughout task

8. FMM: Fine motor movement (fine motor movements involving the device or task materials)

    1) no instances of FMM

    2) one or two instances of FMM

    3) several instances of FMM, for less than half the task

    4) FMM for about half of the task

    5) FMM for more than half of the task, with several instances of inactivity

    6) Substantial FMM, only one or two instances of inactivity

    7) Constant FMM throughout task

9. AGG: Aggression (physical and/or verbal)

In INDIVIDUAL CONTEXT: AGG directed at device

In DYADIC CONTEXT: AGG directed at device or partner

    1) no instances of AGG

    2) one or two instances of AGG

    3) several instances of AGG, for less than half the task

    4) AGG for about half of the task

    5) AGG for more than half of the task, with several instances of non-AGG

    6) Substantial AGG, only one or two instances of non-AGG

    7) Constant AGG throughout task

10. VERB: Verbalizations during task (task-related speech)

In INDIVIDUAL CONTEXT: self-directed speech

In DYADIC CONTEXT: self-directed speech and/or partner-directed speech

      1) no instances of VERB

      2) one or two instances of VERB

      3) several instances of VERB, for less than half of task

      4) VERB for about half of task

      5) VERB for more than half of task, with several instances of non-VERB

      6) Substantial VERB, only one or two instances of non-VERB

      7) Constant VERB throughout task

11. INT: Intrusiveness (physical and/or verbal attempts to disrupt, manipulate, or control partner)

CODE ONLY in DYAD CONTEXT

      n/a: not coded (individual context)

      1) no instances of INT

      2) one or two instances of INT

      3) several instances of INT

      4) INT for about half of the task

      5) INT for more than half of the task, with several instances of non-INT

      6) Substantial INT, only one or two instances of non-INT

      7) Constant INT throughout task

12. RESP: Responsiveness to partner (contingent responding to partner's verbalizations and actions)

CODE ONLY in DYAD CONTEXT

      n/a: not coded (individual context)

      1) no instances of RESP

      2) one or two instances of RESP

      3) several instances of RESP

      4) RESP to about half of partner's questions/comments

      5) RESP to more than half of partner's questions/comments, with several delays

      6) Substantial RESP, only one or two instances of delay

      7) Constant RESP throughout task

13. IND: Independence/Autonomy (leads and controls task; does not include off-task behaviors)

CODE ONLY in DYAD CONTEXT

n/a: not coded (individual context)

1) no instances of IND; relies on partner throughout task

2) one or two instances of IND

3) several instances of IND, for less than half of task

4) IND for about half of task

5) IND for more than half of task, with several instances of following partner's lead

6) Substantial IND, only one or two instances of following partner's lead

7) Constant IND throughout task, controls task from beginning to end

[If coding a dyad, complete the above individual ratings for both individuals separately]

Dyad (if applicable): ID _____ **ID** _____

1. COOP: Cooperation (work on task together through discussion of strategies and joint touching)

    1) no COOP (e.g., when one is doing task, and other is not)

    2) one or two instances of COOP

    3) several instances of COOP, for less than half of task

    4) COOP for about half of task

    5) COOP for more than half of task, with several instances of non-COOP (working alone)

    6) Substantial COOP, only one or two instances of non-COOP (working alone)

    7) Constant COOP throughout task

2. COMP: Competition (trying to "beat" or "race against" partner)

    1) no instances of COMP

    2) one or two instances of COMP

    3) several instances of COMP, for less than half of task

    4) COMP for about half of task

    5) COMP for more than half of task, with several instances of non-COMP

    6) Substantial COMP, only one or two instances of non-COMP

    7) Constant COMP throughout task

3. CON: Conflict (mutual or shared negative affect, arguing, tussling over device or materials)

    1) no instances of CON

    2) one or two instances of CON

    3) several instances of CON, for less than half of task

    4) CON for about half of task

    5) CON for more than half of task, with several instances of non-CON

    6) Substantial CON, only one or two instances of non-CON

    7) Constant CON throughout task

4. REC: Reciprocity (shared positive affect and shared enjoyment of the task and each other's company)

    1) no instances of REC

    2) one or two instances of REC

    3) several instances of REC, for less than half of task

    4) REC for about half of task

    5) REC for more than half of task, with several instances of non-REC

    6) Substantial REC, only one or two instances of non-REC

    7) Constant REC throughout task