P2_H10_report

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2025-02-25

Typically Developing Children during Home Visit 10

N= 20; Age in months: M = 50

Import and Clean Dataset

```
##    [1] NA
##    [2] "point"
##    [3] "palm"
##    [4] "point~"
##    [5] "iconic - iconic"
##    [6] "hold"
##    [7] "$"
##    [8] "point + point - point"
##    [9] "shrug with flip"
##   [10] "point - palm"
##   [11] "palm~"
##   [12] "nod"
##   [13] "come"
##   [14] "iconic"
##   [15] "shake"
##   [16] "hold~"
##   [17] "wave"
##   [18] "shake~"
##   [19] "point~ - point"
##   [20] "hold - hold"
##   [21] "flip"
##   [22] "hold - hold - hold"
##   [23] "hold + point"
##   [24] "cont point"
##   [25] "hold + hold"
##   [26] "<aha>"
##   [27] "point - point - point - point"
##   [28] "point - point"
##   [29] "beat"
##   [30] "pick me"
##   [31] "number - number - number"
##   [32] "number"
##   [33] "number~"
##   [34] "point~ + shake"
##   [35] "shake - point"
##   [36] "point - point - point - point - point"
##   [37] "demo"
```

```
##  [38] "beat - beat - beat"
##  [39] "nod + hold"
##  [40] "point - point - point"
##  [41] "point - shake"
##  [42] "point - flip"
##  [43] "iconic~"
##  [44] "point + beat - point + beat - point + beat"
##  [45] "<oh man>"
##  [46] "palm - palm - palm"
##  [47] "palm - palm"
##  [48] "point + point"
##  [49] "point - point - point - point - point - point - point"
##  [50] "hold - point - point - point"
##  [51] "flip + shake"
##  [52] "flip~ + shake~"
##  [53] "flip~"
##  [54] "iconic - iconic - beat - iconic - point"
##  [55] "palm - point"
##  [56] "shh"
##  [57] "iconic - iconic - flip"
##  [58] "palm - cont point - point - cont point"
##  [59] "cont point - point - beat"
##  [60] "beat - point - point - point"
##  [61] "point - point - iconic"
##  [62] "beat - beat"
##  [63] "beat - iconic"
##  [64] "point- point - point - point - point - point"
##  [65] "oh my"
##  [66] "drag"
##  [67] "shrug"
##  [68] "point - point - point - point - point - point"
##  [69] "dismiss"
##  [70] "point - iconic"
##  [71] "hold + iconic - iconic - flip"
##  [72] "iconic + hold"
##  [73] "flip / beat"
##  [74] "point + hold"
##  [75] "hold~ + point~"
##  [76] "tada"
##  [77] "number - number  - beat - beat"
##  [78] "number - number  - number - beat"
##  [79] "wait"
##  [80] "<whew>"
##  [81] "palm- palm"
##  [82] "flip - flip"
##  [83] "flip - shake"
##  [84] "flip - beat"
##  [85] "beat + shake"
##  [86] "point - hold"
##  [87] "point~ - shake"
##  [88] "point - point - point - point - point - point - point - point"
##  [89] "metaphoric"
##  [90] "beat - flip"
##  [91] "<thumbs up>"
```

```
##  [92] "nod - point"
##  [93] "shake + point"
##  [94] "beat - beat - beat - beat"
##  [95] "nod - iconic"
##  [96] "shake -dismiss"
##  [97] "shake  + point"
##  [98] "pick up"
##  [99] "tada~"
## [100] "beat -beat"
## [101] "point-number"
## [102] "x"
## [103] "hold+hold"
## [104] "nod/shake"
## [105] "beat-beat"
## [106] "point~ - hold"
## [107] "flip - iconic - flip"
## [108] "iconic - iconic - demo"
## [109] "sign"
## [110] "beat -beat - beat - beat"
## [111] "point~ + point~"
## [112] "hold+point"
## [113] "hold~+point"
## [114] "<hero fist>"
## [115] "point - point - point - point - point - point - point - point - point"
## [116] "thinking"
## [117] "point - point + beat - point + beat - point + beat - point + beat - point + beat"
## [118] "point + beat - point + beat - point + beat - point + beat - point + beat - point + beat - poi
## [119] "point - point + beat - point + beat - point + beat - point + beat - point + beat - point + be
## [120] "nod~"
## [121] "nod - listing"
## [122] "point + beat - point + beat"
## [123] "point -iconic"
## [124] "got it"
## [125] "flip + point"
## [126] "palm - point - palm"
## [127] "point + beat - point + beat - point + beat - point + beat - point + beat"
## [128] "point + beat - point + beat - point + beat - point + beat - point + beat - point + beat - poi
## [129] "point + beat - point + beat - point + beat - point + beat - point + beat - point + beat - poi
## [130] "point + beat - point + beat - point + beat - point + beat - point + beat - point + beat - poi
## [131] "point + beat - point + beat - point + beat - point + beat"
## [132] "listing"
## [133] "number - number - number - number"
## [134] "point - point - point + beat - point + beat - point + beat"
## [135] "point + beat - point + beat - point + beat - point + beat - point + beat - point"
## [136] "beat - beat - beat- beat"
## [137] "flip - iconic - beat"
## [138] "hold + palm"
## [139] "point -point"
## [140] "iconic - palm"
## [141] "demo - demo"
## [142] "drag - point - point"
```

Child Gesture and Pretend Play overlap:

Child Gesture Pretend Play overlap by individual:

```
## # A tibble: 16 x 2
##    participant_id PP_gest_overlap_individual
##             <int>                     <int>
##  1             22                        12
##  2             25                         2
##  3             28                         7
##  4             29                       100
##  5             38                        10
##  6             40                        12
##  7             42                        10
##  8             43                         2
##  9             44                         1
## 10             58                        17
## 11             61                         4
## 12             75                         3
## 13             84                         6
## 14            102                        11
## 15            103                        29
## 16            106                         8
```

Child Utterance and Pretend Play overlap:

Child Utterance and Pretend Play overlap by individual:

```
## # A tibble: 20 x 2
##    participant_id PP_utts_overlap_individual
##             <int>                     <int>
##  1             22                       112
##  2             25                        21
##  3             28                        17
##  4             29                       326
##  5             37                         4
##  6             38                        28
##  7             40                       131
##  8             42                        58
##  9             43                       297
## 10             44                        26
## 11             45                         4
## 12             54                        18
## 13             58                       234
## 14             61                         8
## 15             68                         4
## 16             75                         5
## 17             84                       296
## 18            102                       130
## 19            103                       259
## 20            106                       161
```

Merged PP_Gesture and PP_Utterance subsets

Representational (Iconic or Metaphoric or Demo) Gesture and Pretend Play overlap:

Representational (Iconic or Metaphoric or Demo) Gesture and Pretend Play overlap by individual:

```
## # A tibble: 12 x 2
##    participant_id PP_gest_rep_overlap_individual
##             <int>                          <int>
## 1              22                              1
## 2              25                              2
## 3              28                              1
## 4              29                             26
## 5              38                              2
## 6              40                              5
## 7              42                              1
## 8              44                              1
## 9              58                              3
## 10             75                              3
## 11            102                              1
## 12            106                              1
```

Iconic Gesture and Pretend Play overlap:

Iconic Gesture and Pretend Play overlap by individual:

```
## # A tibble: 12 x 2
##    participant_id PP_gest_icon_overlap_individual
##             <int>                           <int>
## 1              22                               1
## 2              25                               2
## 3              28                               1
## 4              29                              26
## 5              38                               2
## 6              40                               5
## 7              42                               1
## 8              44                               1
## 9              58                               3
## 10             75                               3
## 11            102                               1
## 12            106                               1
```

Table of ALL Gesture, Utterance, and Representative Gesture:

```
## # A tibble: 20 x 4
##    participant_id PP_gest_overlap_individual PP_utts_overlap_individual
##             <int>                      <int>                      <int>
## 1              22                         12                        112
## 2              25                          2                         21
## 3              28                          7                         17
## 4              29                        100                        326
## 5              38                         10                         28
## 6              40                         12                        131
```

```
## 7               42                     10                        58
## 8               43                      2                       297
## 9               44                      1                        26
## 10              58                     17                       234
## 11              61                      4                         8
## 12              75                      3                         5
## 13              84                      6                       296
## 14             102                     11                       130
## 15             103                     29                       259
## 16             106                      8                       161
## 17              37                     NA                         4
## 18              45                     NA                         4
## 19              54                     NA                        18
## 20              68                     NA                         4
## # i 1 more variable: PP_gest_rep_overlap_individual <int>
```
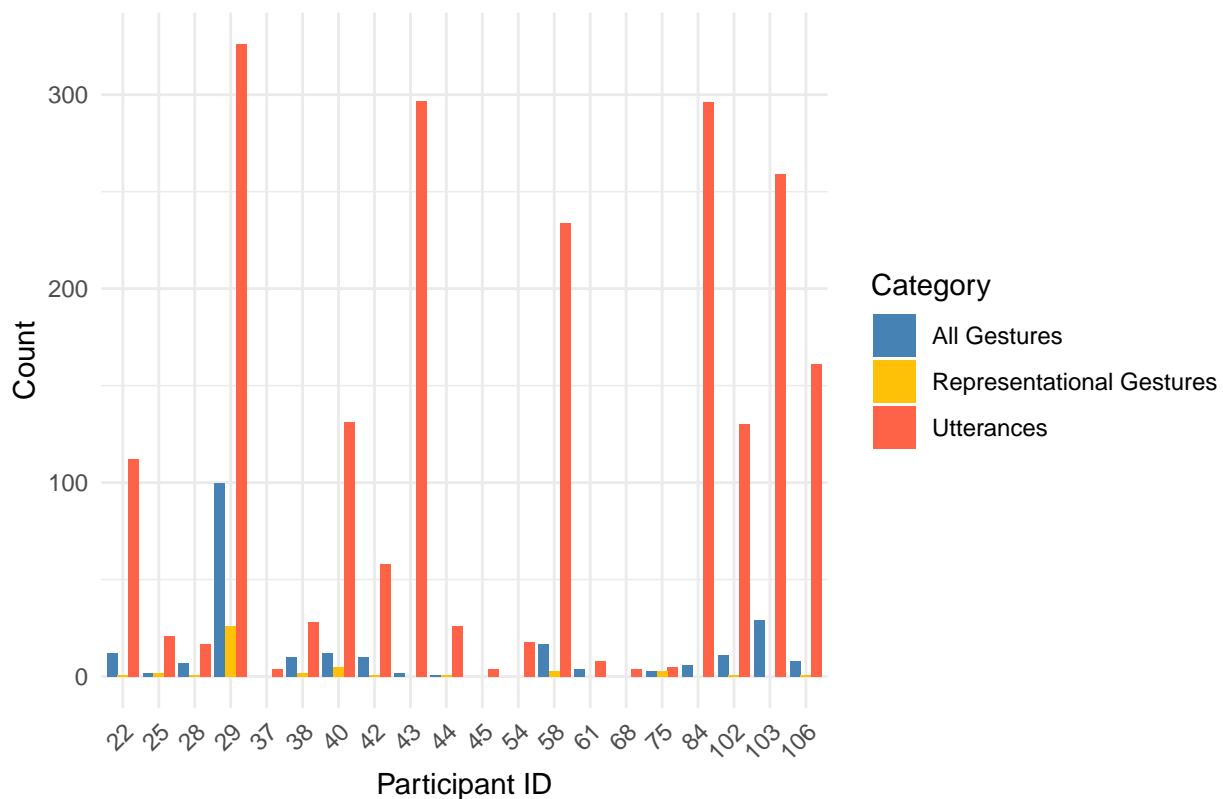
Reshaped ALL Gesture, Utterance, and Representative Gesture Data for Plotting

Bar graph of All Gesture, Utterance, and Iconic Gesture data:

```
## Warning: Removed 12 rows containing missing values or values outside the scale range
## (`geom_bar()`).
```


Utterances, Gestures, and Representational Gestures during Pretend Play

Table of ALL Gesture, Utterance, and Iconic Gesture:

```
## # A tibble: 20 x 4
##    participant_id PP_gest_overlap_individual PP_utts_overlap_individual
##             <int>                    <int>                     <int>
```
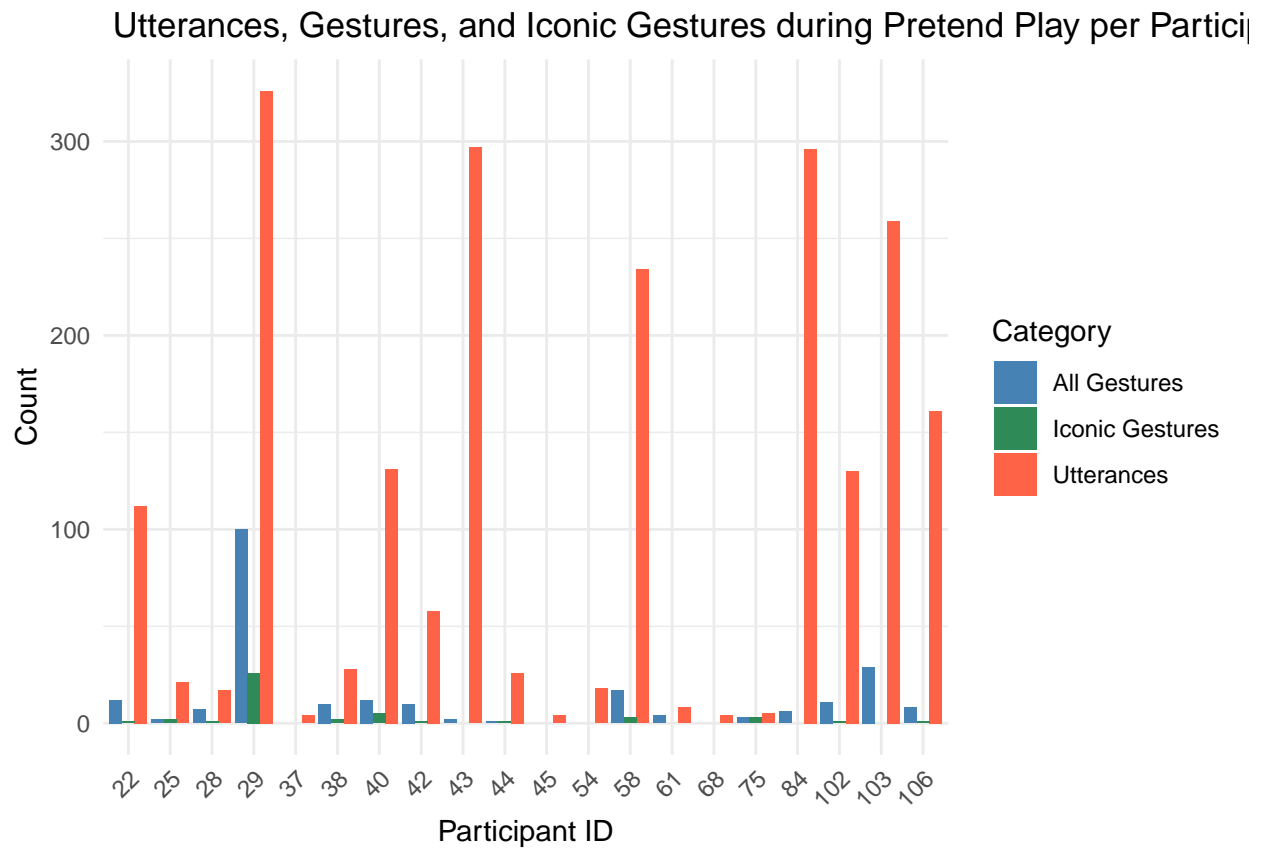
```
##  1            22            12            112
##  2            25             2             21
##  3            28             7             17
##  4            29           100            326
##  5            38            10             28
##  6            40            12            131
##  7            42            10             58
##  8            43             2            297
##  9            44             1             26
## 10            58            17            234
## 11            61             4              8
## 12            75             3              5
## 13            84             6            296
## 14           102            11            130
## 15           103            29            259
## 16           106             8            161
## 17            37            NA              4
## 18            45            NA              4
## 19            54            NA             18
## 20            68            NA              4
## # i 1 more variable: PP_gest_icon_overlap_individual <int>
```

Reshaped ALL Gesture, Utterance, and Iconic Gesture data for plotting

Bar graph of ALL Gesture, Utterance, and Iconic Gesture data:
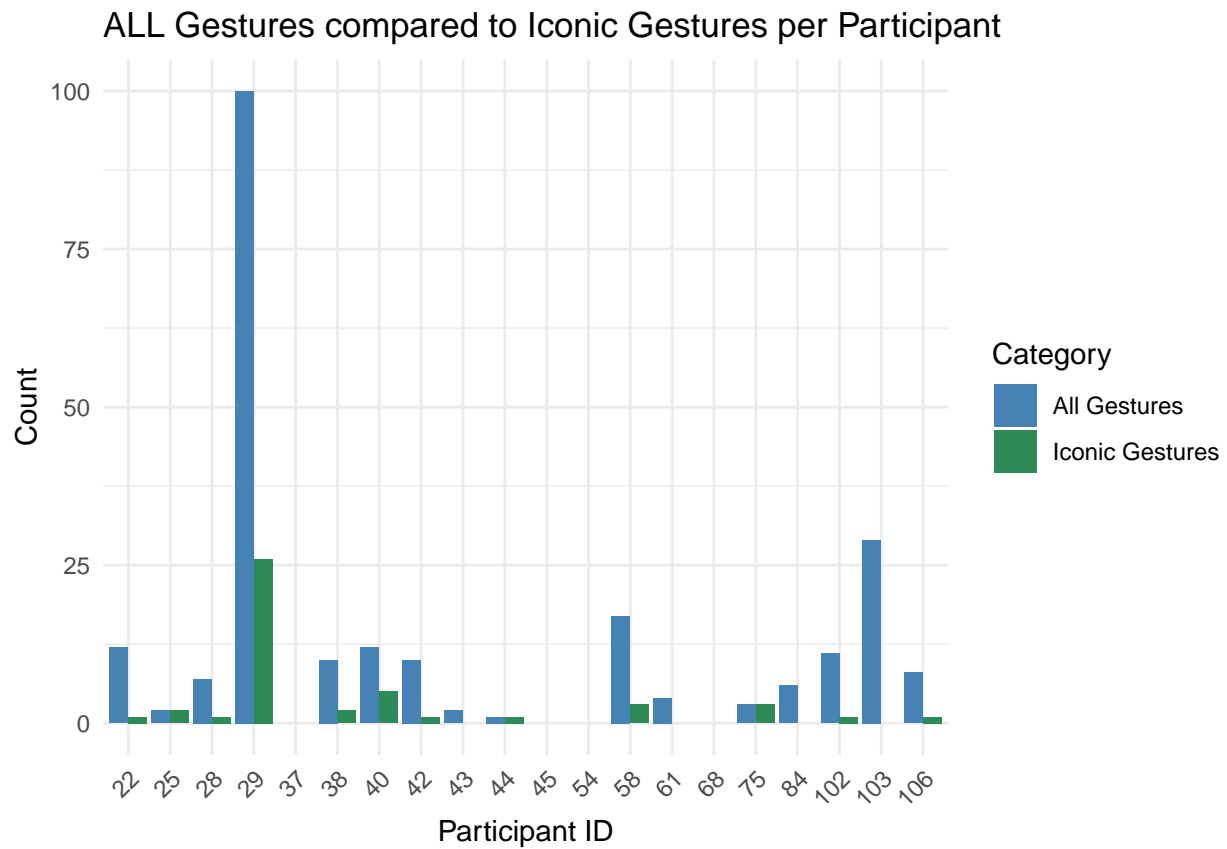
```
## Warning: Removed 12 rows containing missing values or values outside the scale range
## (`geom_bar()`).
```

Utterances, Gestures, and Iconic Gestures during Pretend Play per Participant

Bar graph of All Gestures and Iconic Gestures data

```
## Warning: Removed 12 rows containing missing values or values outside the scale range
## (`geom_bar()`).
```

ALL Gestures compared to Iconic Gestures per Participant

Bar graph of All Gestures and Representational Gestures data

```
## Warning: Removed 12 rows containing missing values or values outside the scale range
## (`geom_bar()`).
```

ALL Gestures compared to Representational Gestures per Participant