# Summary Stats

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## Summary Statistics for P2\_H8

## **ALL Gestures by Participant ID**

```
## # A tibble: 10 \times 2
      participant_id gesture_all
##
                <int>
                             <int>
##
    1
                   30
                                10
   2
                   35
##
                                60
##
   3
                   46
                                46
##
                   93
                                38
##
   5
                   94
                                74
##
   6
                   99
                                18
##
   7
                  117
                               141
##
                  132
                               134
##
   9
                  135
                                57
## 10
                  150
                               111
```

Total number of gestures among all observations of all participants:

## [1] 689

#### Mean and Standard deviation of ALL gestures

```
## # A tibble: 1 x 2
## mean_gesture sd_gesture
## <dbl> <dbl>
## 1 68.9 45.9
```

#### A Data Frame of only iconic gestures. Summary Stats to follow.

##		trans.ID		time	line	key	p_utts	p_form	p_lrb	p_obj	p_gloss
##	1	<na></na>		<na></na>	482	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>
##	2	<na></na>		<na></na>	1083	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>
##	3	132.08H.P3		<na></na>	285	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>
##	4	132.08H.P3		<na></na>	320	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>
##	5	135.08H.P3	1904-01-01	00:02:25	66	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>
##	6	135.08H.P3	1904-01-01	00:02:34	72	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>	<na></na>
##	p_orient p_mspd c_utts										
##	1	<na></na>	<na></na>		what's that noise?						
##	2	<na></na>	<na></na>		hey, it goes ###						
##	3	<na></na>	<na></na>		A spider.						
##	4	<na></na>	<na></na>		A swing.						
##	5	<na></na>	<na></na>		Yeah, she goes						

```
## 6
              <NA> Yeah, and then she bats it around on the floor.
             c_form c_lrb
##
                                                c obj
## 1
             iconic
                                                 <NA>
## 2
             iconic
                                                 <NA>
                          r
             iconic
                          L
                                                 <NA>
## 4 point - iconic L - WB picture of swing in book
             iconic
                                                 <NA>
## 6
                                                 <NA>
             iconic
##
                               c_gloss
                                           c_orient
## 1
                        whisking noise
                                               <NA>
## 2
                      necklace flying trace path
## 3
                                spider trace.shape
## 4 picture of swing in book - swing trace.path
## 5
                     Cat catching bugs
                                               <NA>
## 6
                       Cat batting bug
                                               <NA>
##
                                                                       c_mspd context
## 1
                            rocks head back and forth to rhythm of whisking
                                                                                  <NA>
## 2
                                                 pushes hand through the air
                                                                                  <NA>
## 3
                           C wiggles all her fingers as if it were a spider
                                                                                  <NA>
                                  C moves L hand and H in a swinging motion
## 4
                                                                                  <NA>
## 5 C raises both arms and swats at the air with her hands over and over.
                                                                                  <NA>
        C bats imaginary bug between her hands near the floor of the room.
                                                                                  <NA>
     Parent.DXT Child.DXT participant_id session C_wpu c_pret
##
## 1
           <NA>
                      <NA>
                                       117
## 2
                                                       4
           <NA>
                      <NA>
                                                 8
                                                               0
                                       117
## 3
           <NA>
                      <NA>
                                       132
                                                 8
                                                       2
                                                               0
## 4
           <NA>
                      <NA>
                                       132
                                                 8
                                                       2
                                                               0
## 5
           <NA>
                      <NA>
                                       135
                                                 8
                                                       4
                                                               0
## 6
                                                               0
           <NA>
                      <NA>
                                       135
                                                 8
                                                      10
```

#### Number of iconic gestures per participant ID

```
## # A tibble: 7 x 2
##
     participant_id iconic_count
##
               <int>
                              <int>
## 1
                   35
                                  3
## 2
                   93
                                  1
## 3
                  94
                                  3
                                  2
## 4
                 117
## 5
                                  2
                 132
                                  3
## 6
                 135
                 150
```

Total number of iconic gestures across all participants:

## [1] 16

Summary statistics of iconic gestures across participants

```
## # A tibble: 1 x 2
## mean_iconic sd_iconic
## <dbl> <dbl>
## 1 2.29 0.756
```

#### Instances of Pretend Play by Participant ID:

```
## # A tibble: 10 x 2
##
      participant_id count_p_combined
##
                 <int>
                                    <int>
##
    1
                    30
                                        0
##
    2
                    35
                                       86
##
                    46
                                        2
    3
##
    4
                    93
                                       26
    5
                    94
##
                                       81
                    99
                                        0
##
    6
    7
##
                   117
                                        1
##
    8
                   132
                                       51
   9
                                      153
##
                   135
## 10
                   150
                                       58
```

## Total number of instances of pretend play:

## [1] 458

#### Descriptive statistics of all instances of pretend play:

```
## # A tibble: 1 x 2
## mean_pp sd_pp
## <dbl> <dbl>
## 1 45.8 50.6
```

#### Average words per utterance by Participant ID

```
## # A tibble: 10 x 4
##
      participant_id total_words total_utts avg_c_wpu
##
                <int>
                              <int>
                                          <int>
                                                     <dbl>
##
   1
                   30
                                716
                                            334
                                                      2.14
##
    2
                   35
                               2783
                                            620
                                                      4.49
    3
                    46
                                722
                                            502
                                                      1.44
##
                                            692
##
    4
                   93
                               2629
                                                      3.80
##
    5
                   94
                               2153
                                            688
                                                      3.13
##
    6
                   99
                                519
                                            165
                                                      3.15
##
    7
                   117
                               1806
                                            667
                                                      2.71
##
    8
                                            580
                                                      2.40
                   132
                               1393
##
    9
                   135
                               1915
                                            653
                                                      2.93
                                            798
                                                      3.36
## 10
                   150
                               2683
```

## Adding in Standard Deviation to the above table

## # A tibble: 10 x 5 ## participant\_id total\_words total\_utts avg\_c\_wpu sd\_c\_wpu ## <dbl> <dbl> <int> <int> <int> ## 1 30 716 334 2.14 1.60 ## 2 35 2783 620 4.49 3.15 ## 3 46 722 502 1.44 0.758 4 93 2629 692 3.80 2.95 ## ## 5 94 2153 688 3.13 2.27 6 2.09 ## 99 519 165 3.15 ## 7 117 1806 667 2.71 2.05 1393 580 2.40 2.12 ## 8 132

## 9	135	1915	653	2.93	2.44
## 10	150	2683	798	3.36	2.88

#### Mean of Means in Above table

## # A tibble: 1 x 3
## c\_total\_words mean\_c\_wpu sd\_c\_wpu
## <int> <dbl> <dbl> <dbl>
## 1 17319 2.95 0.858

Mean of Avg Words per Utternace by total number of words over total number of utternaces ## [1] 3.038954

count of instances when gesture and pretend play occur simulatneously