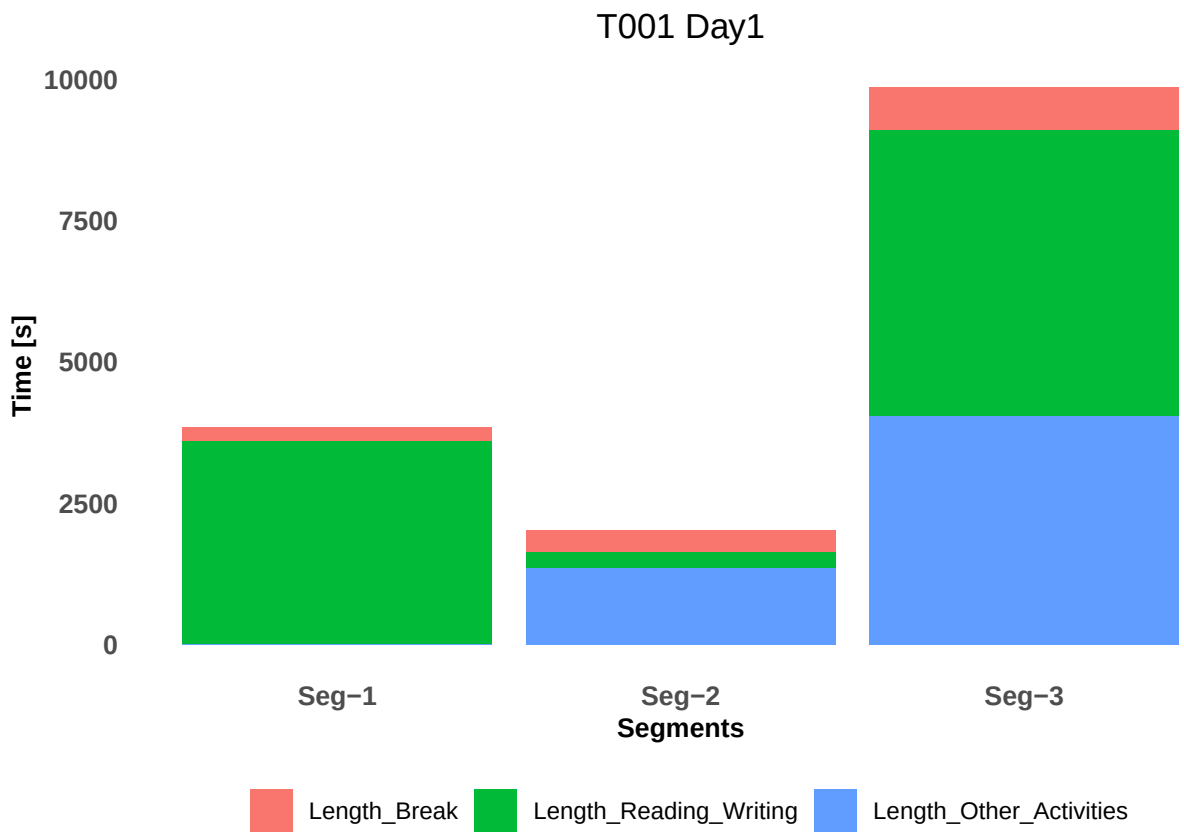
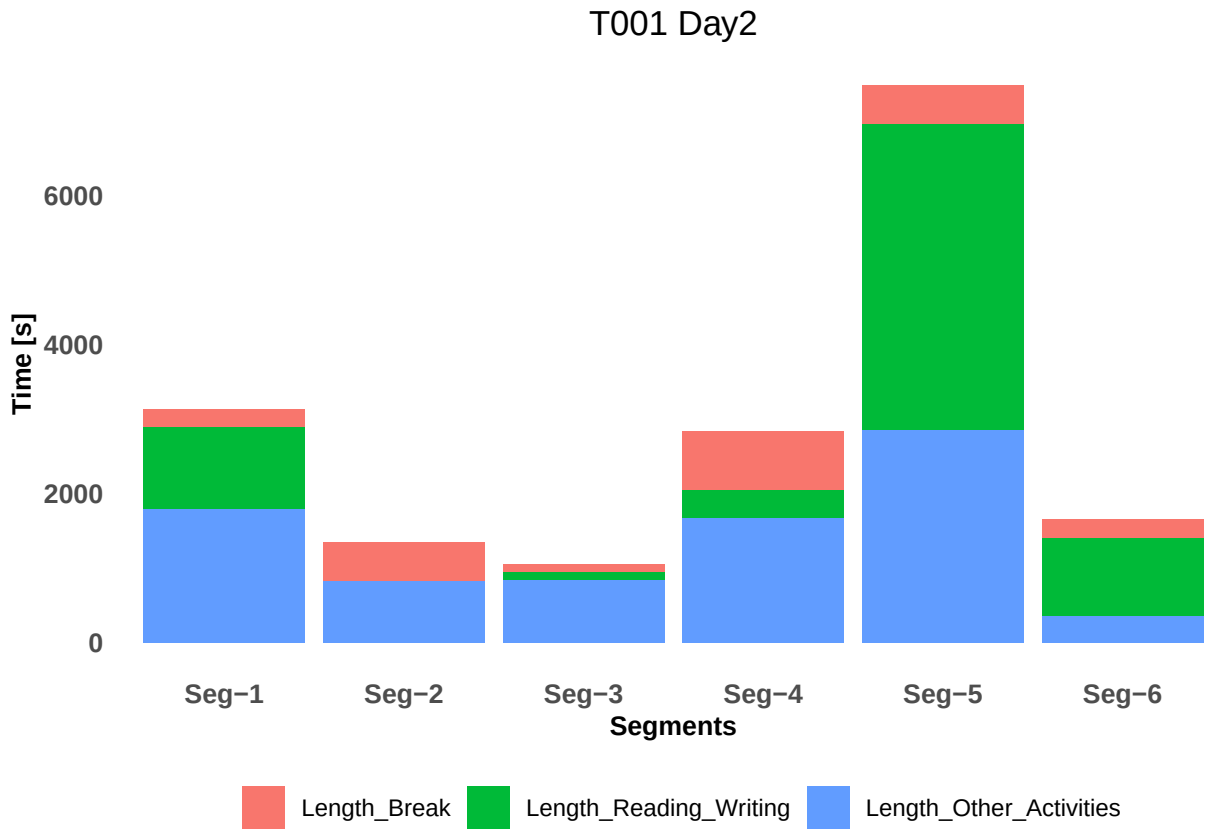
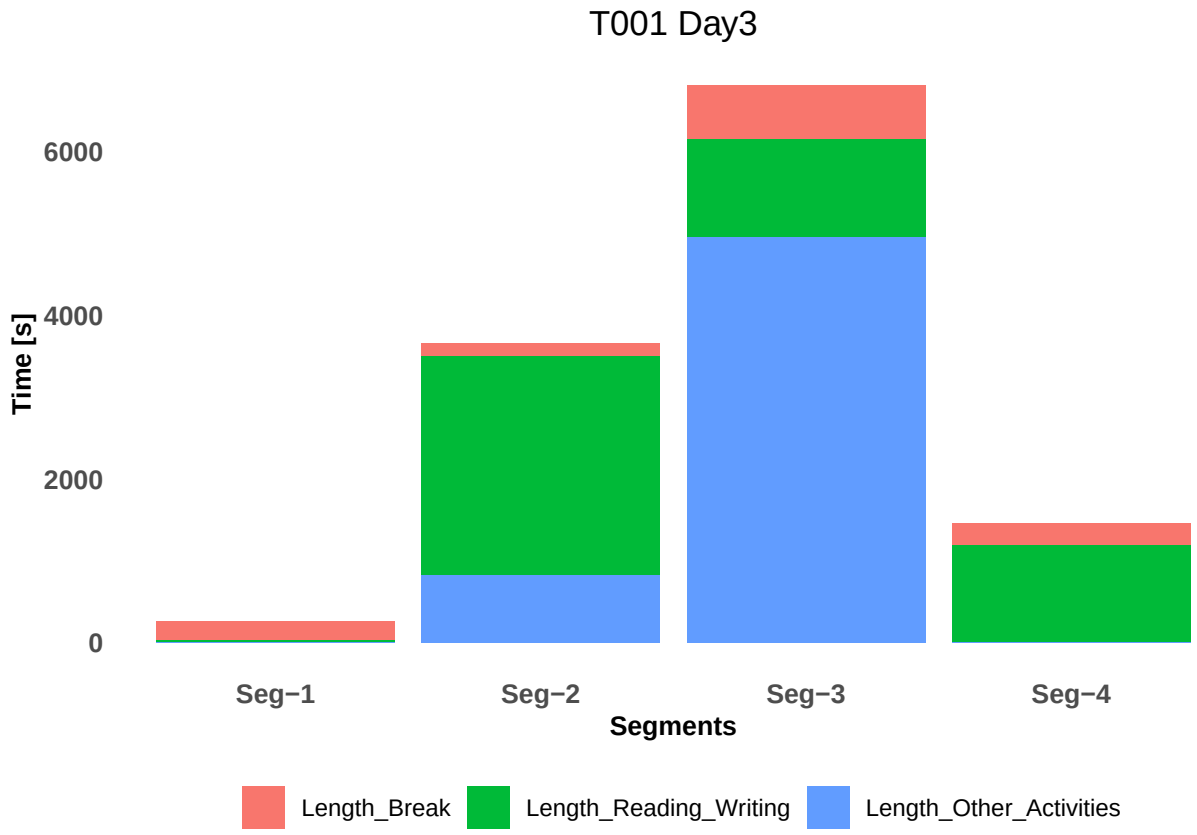
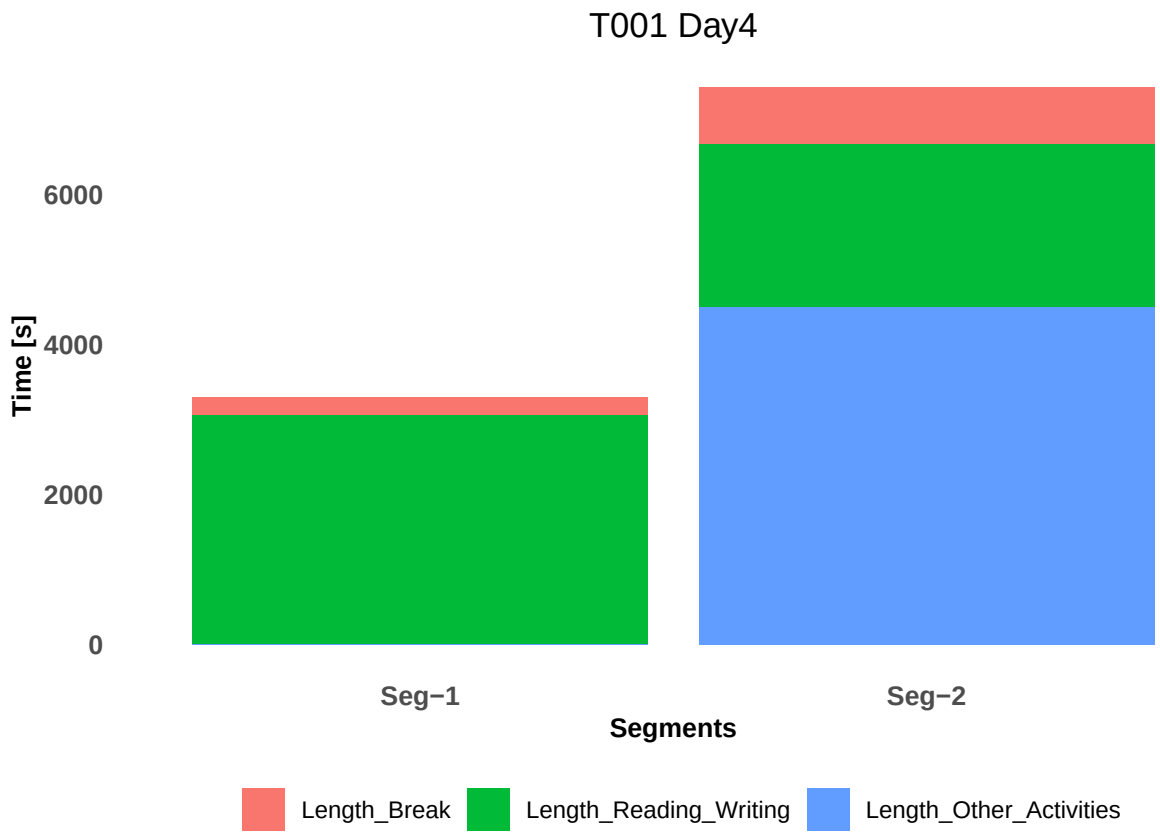
Segmented_data

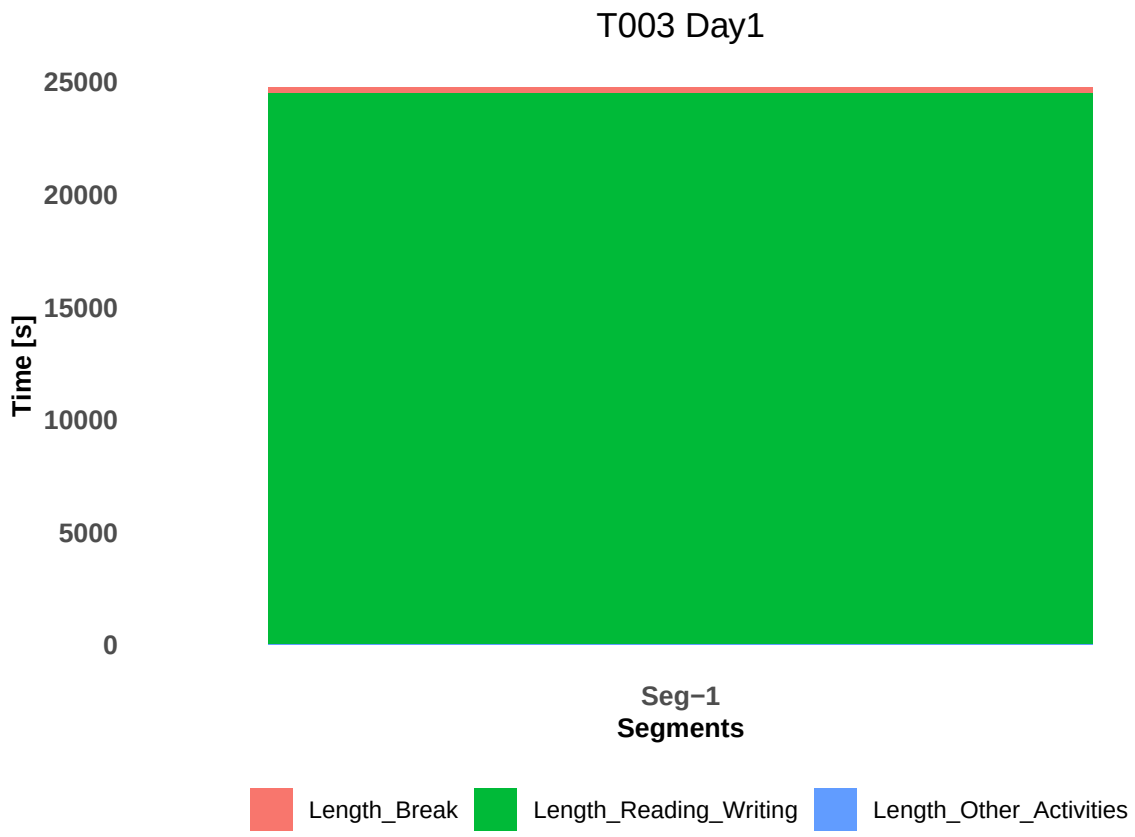
```
## Using Participant_ID, Day, Segment as id variables
```

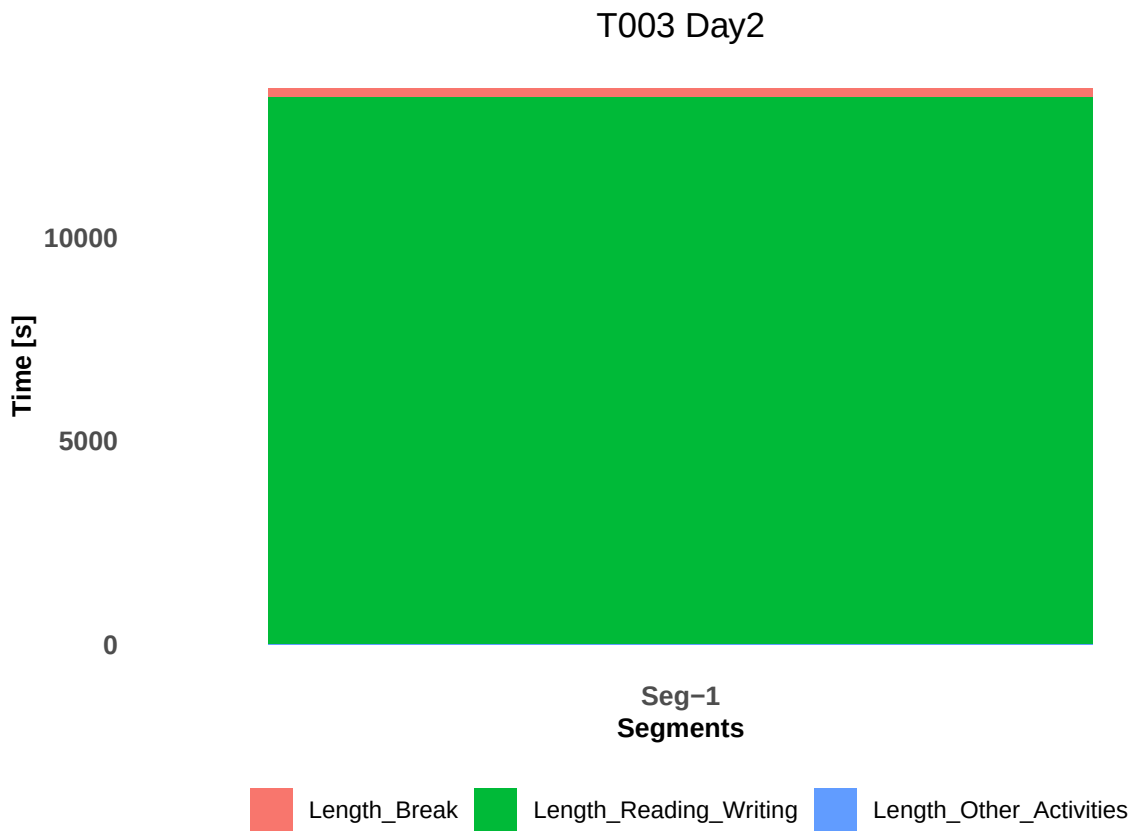


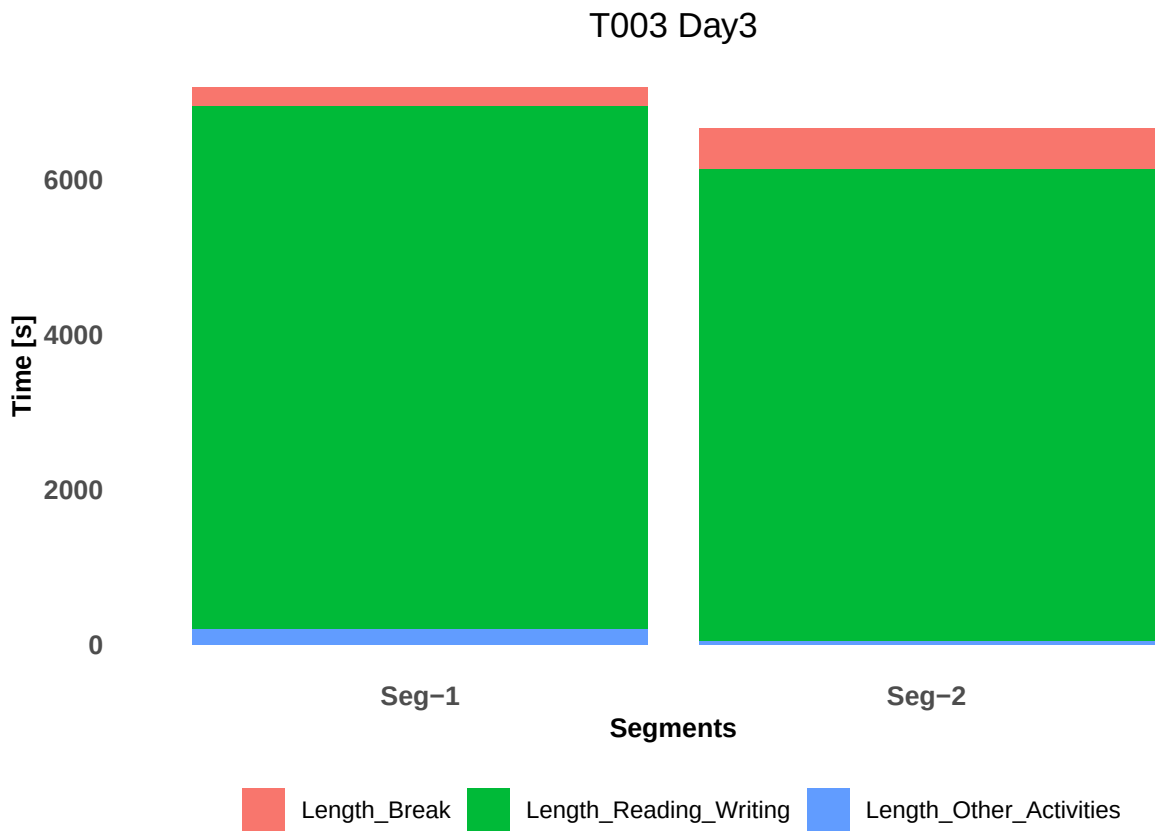

T001 Day2
Time [s]
6000
4000
2000
0
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

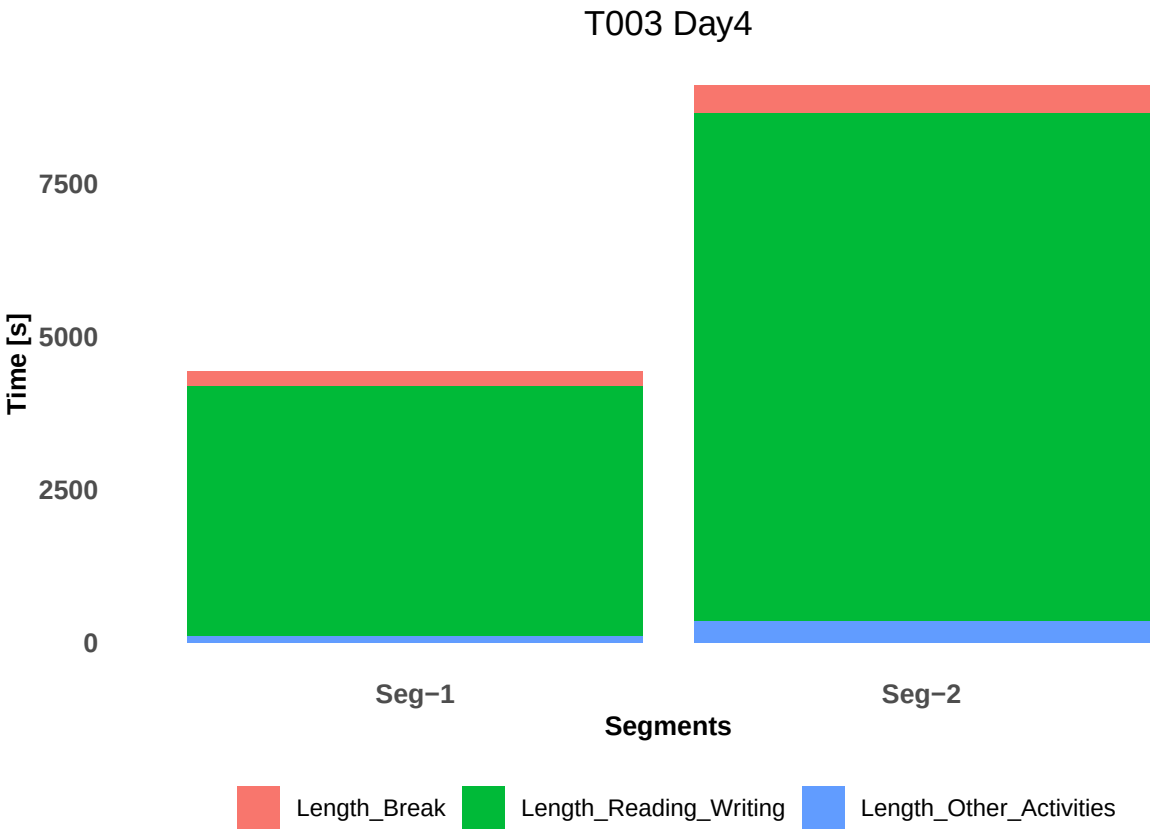

T001 Day3
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

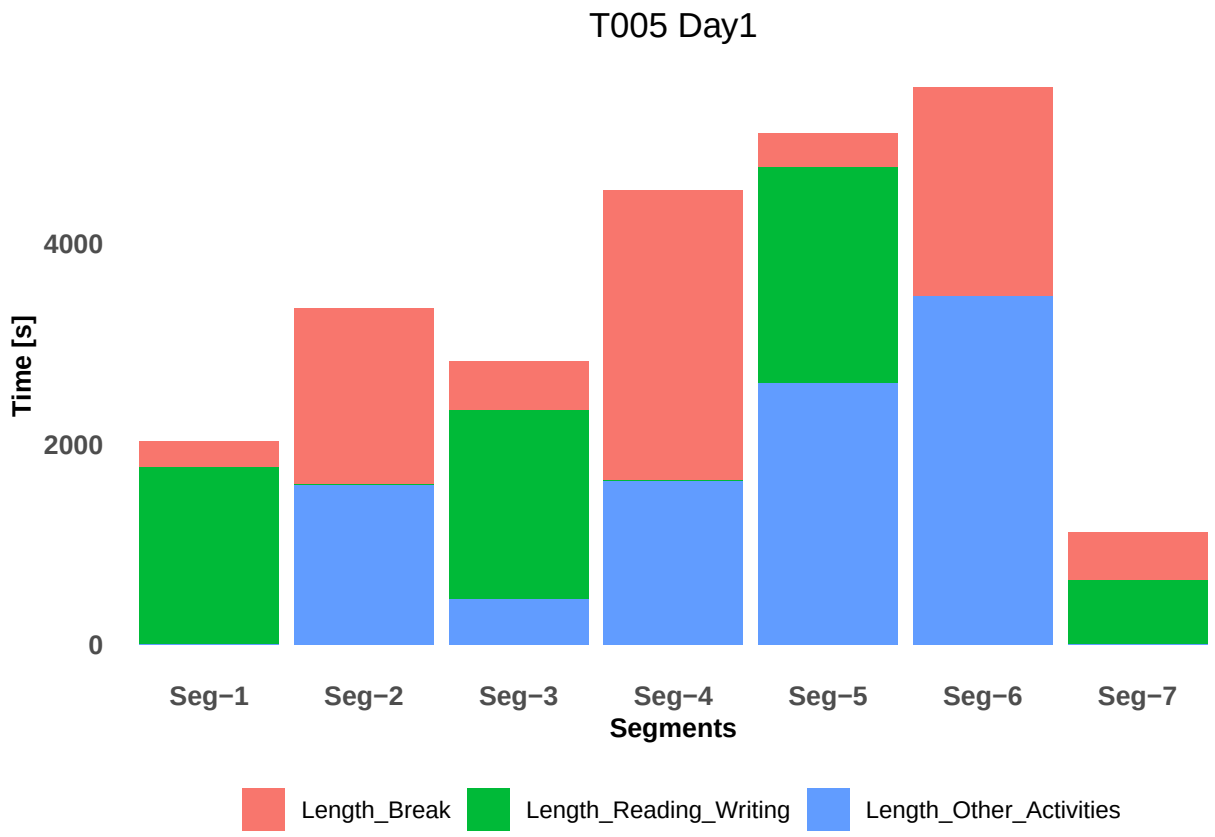

T001 Day4
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

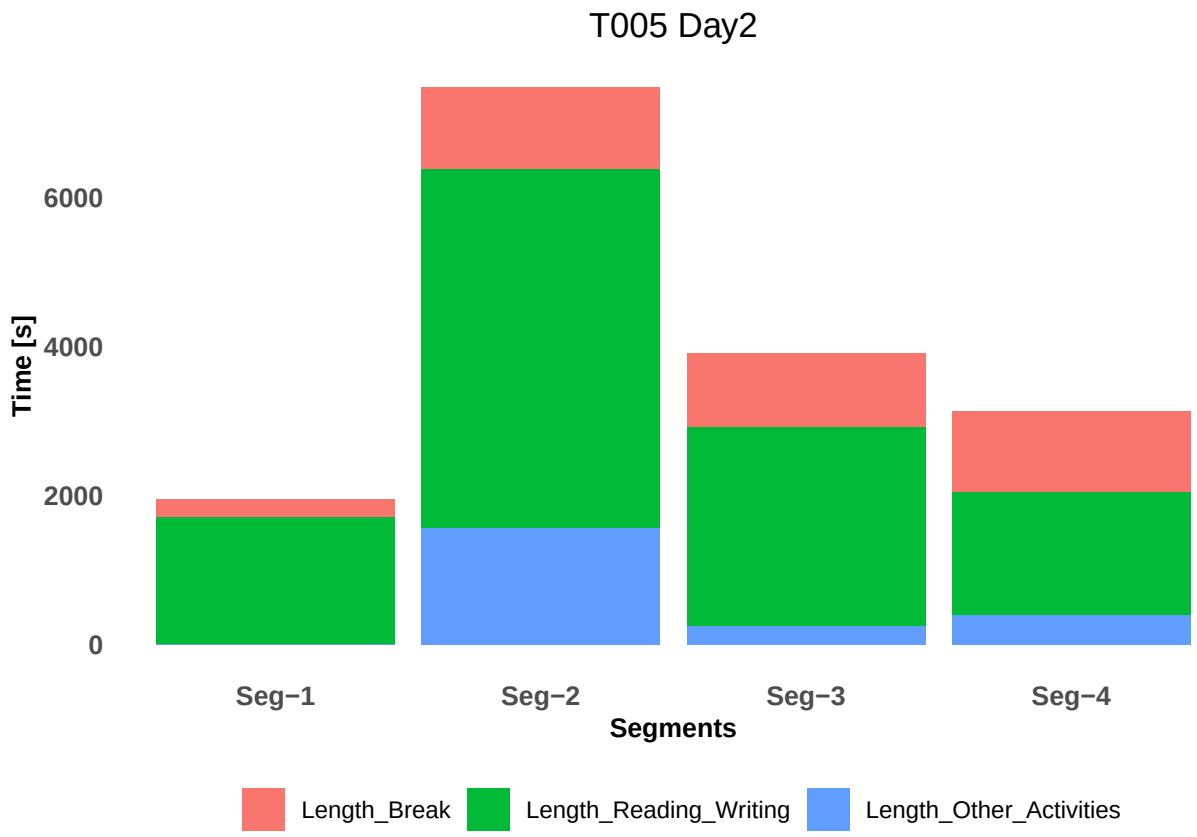

T003 Day1
25000
20000
15000
10000
5000
0
Time [s]
Seg−1
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

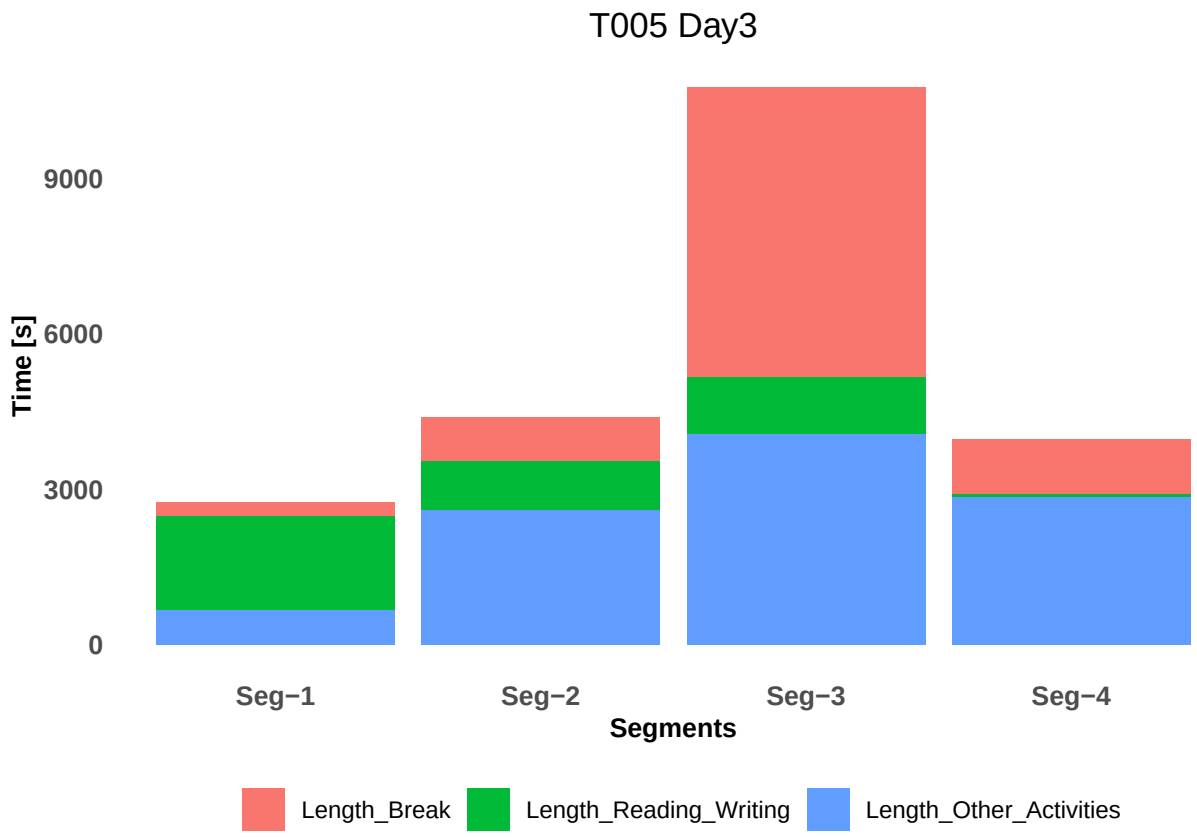

T003 Day2
10000
5000
0
Time [s]
Seg−1
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

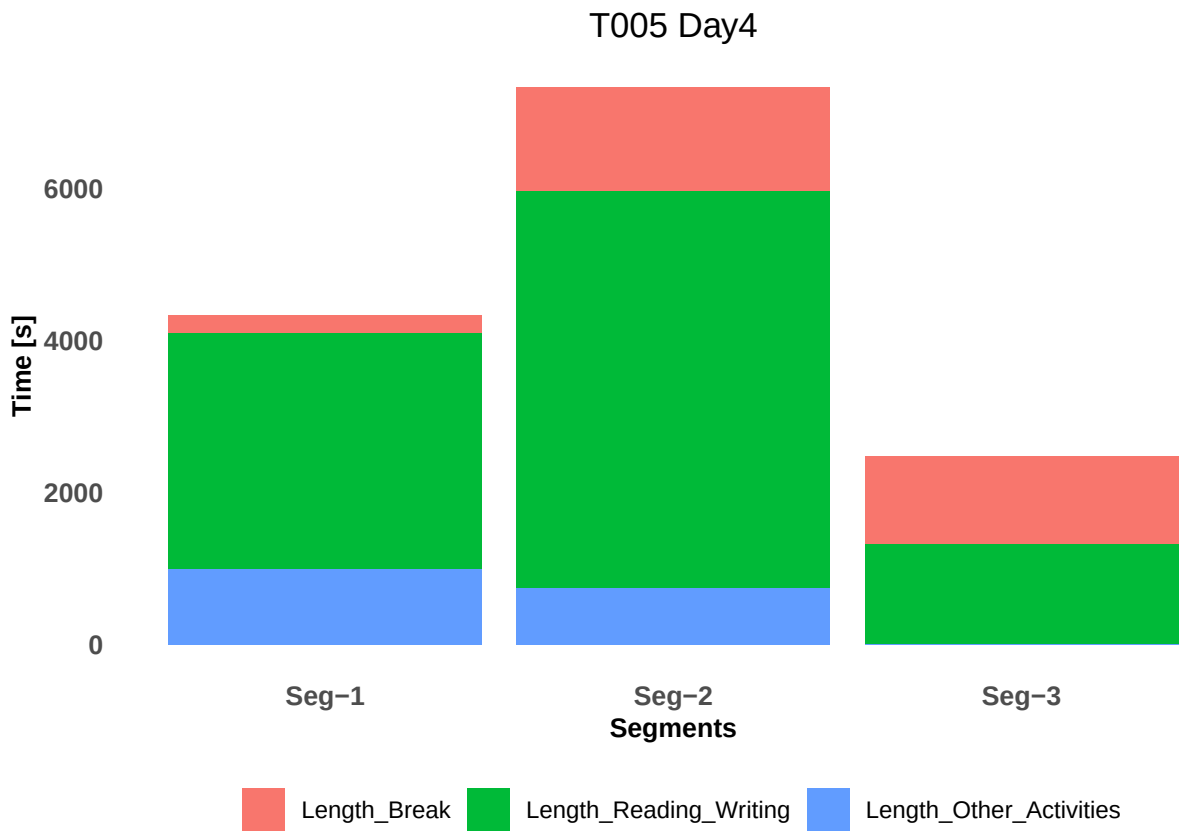

T003 Day3
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

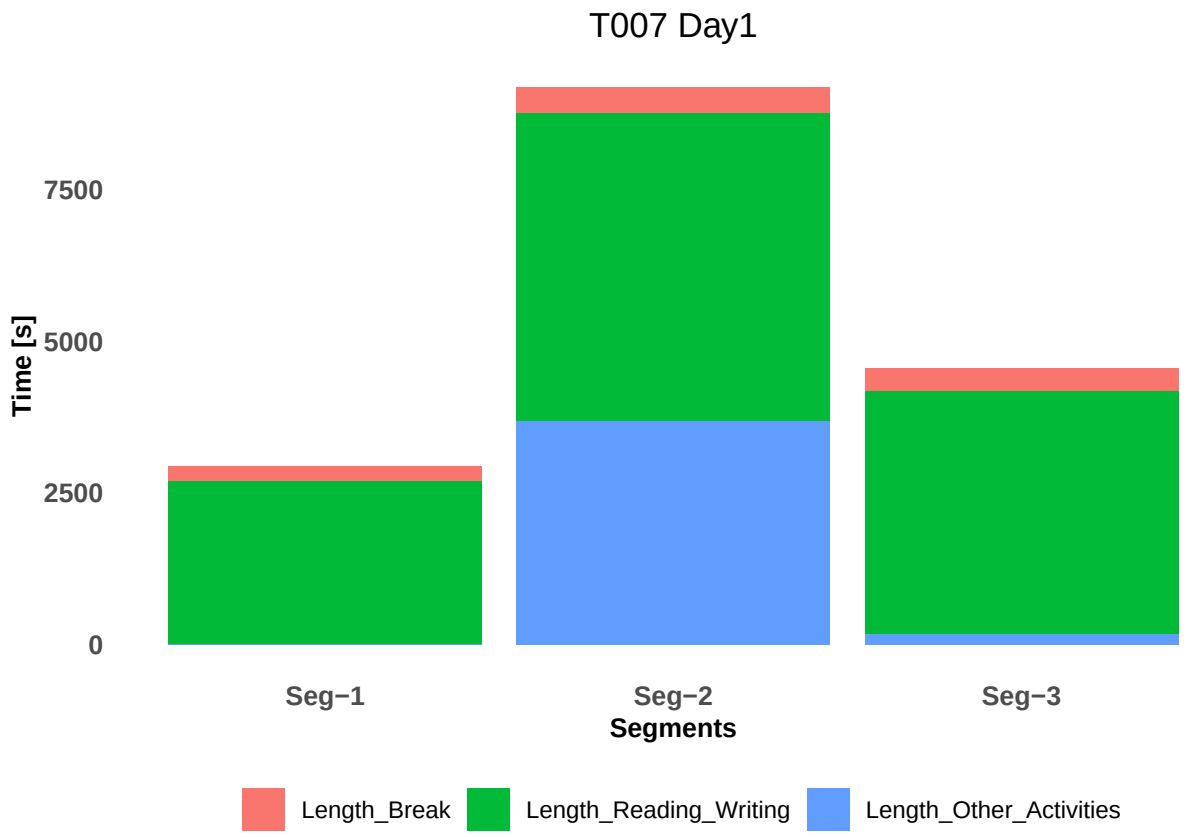

T003 Day4
7500
5000
2500
0
Time [s]
Seg−1
Seg−2
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

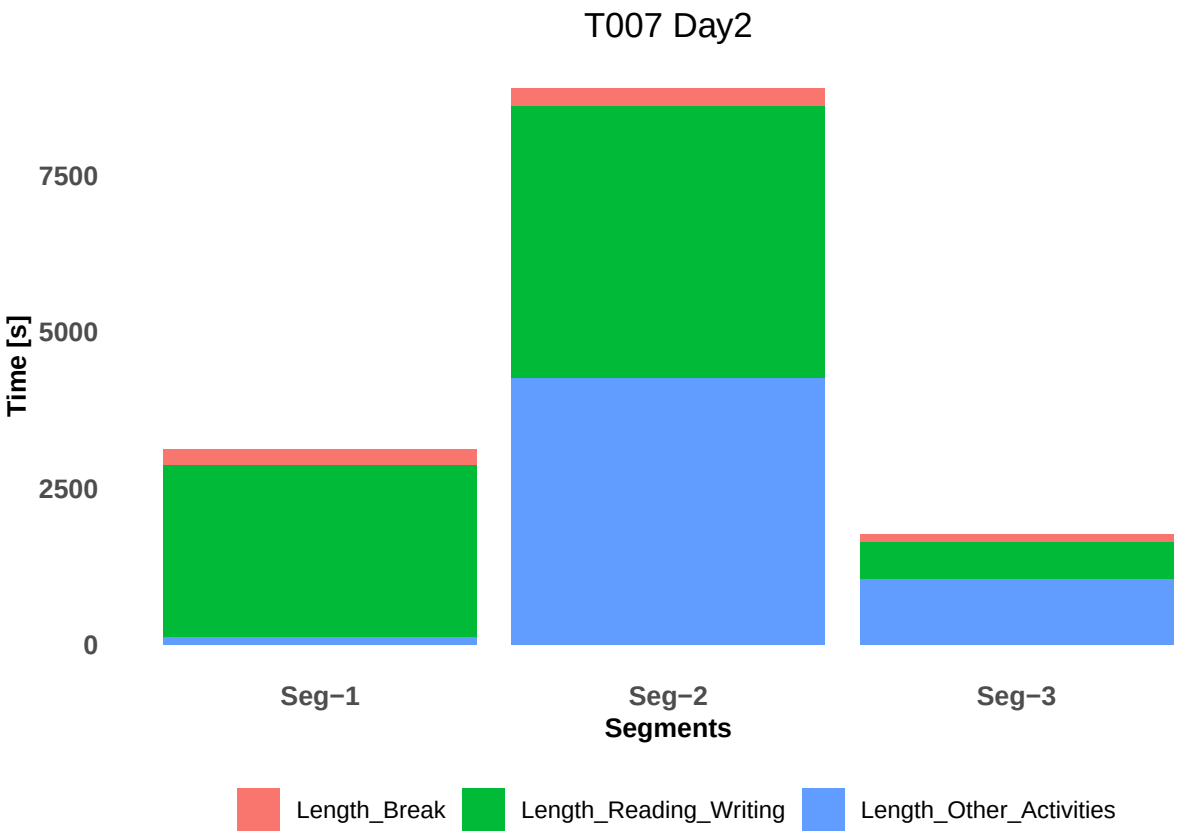

T005 Day1
Time [s]
4000
2000
0
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Seg−7
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

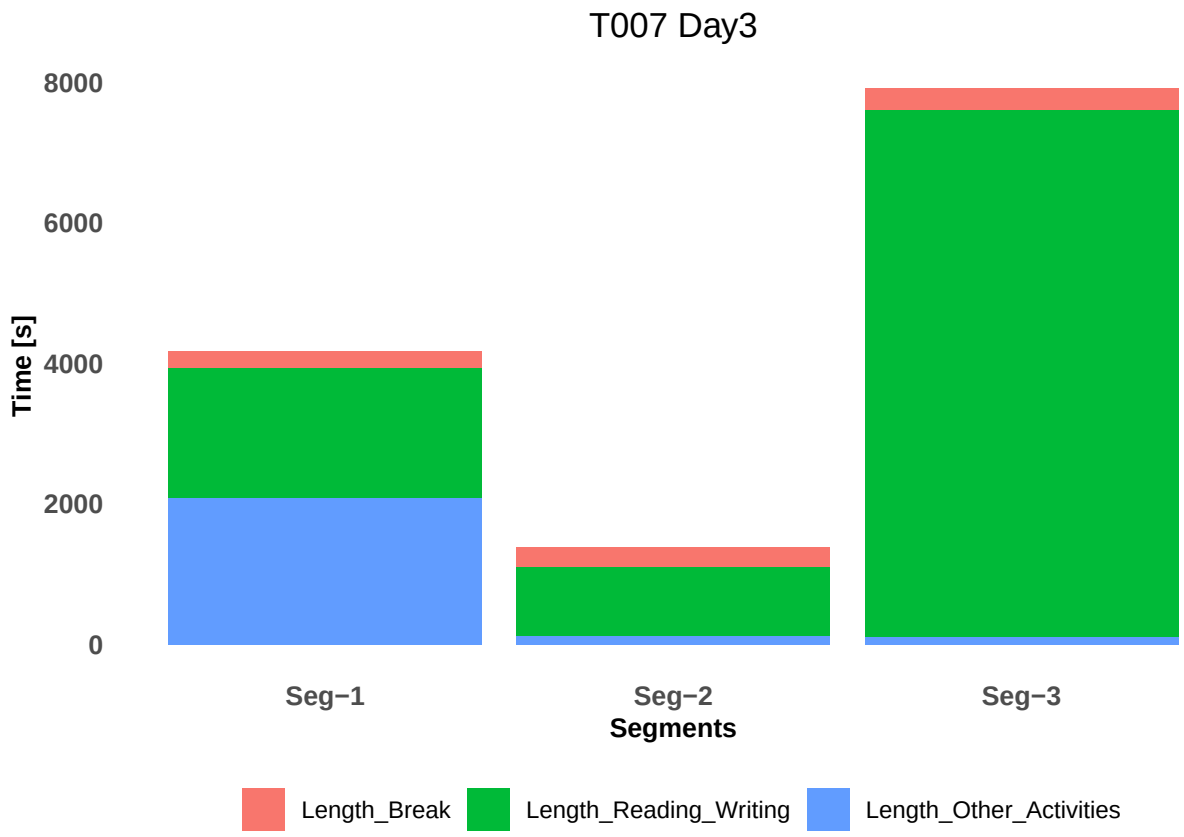

T005 Day2
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

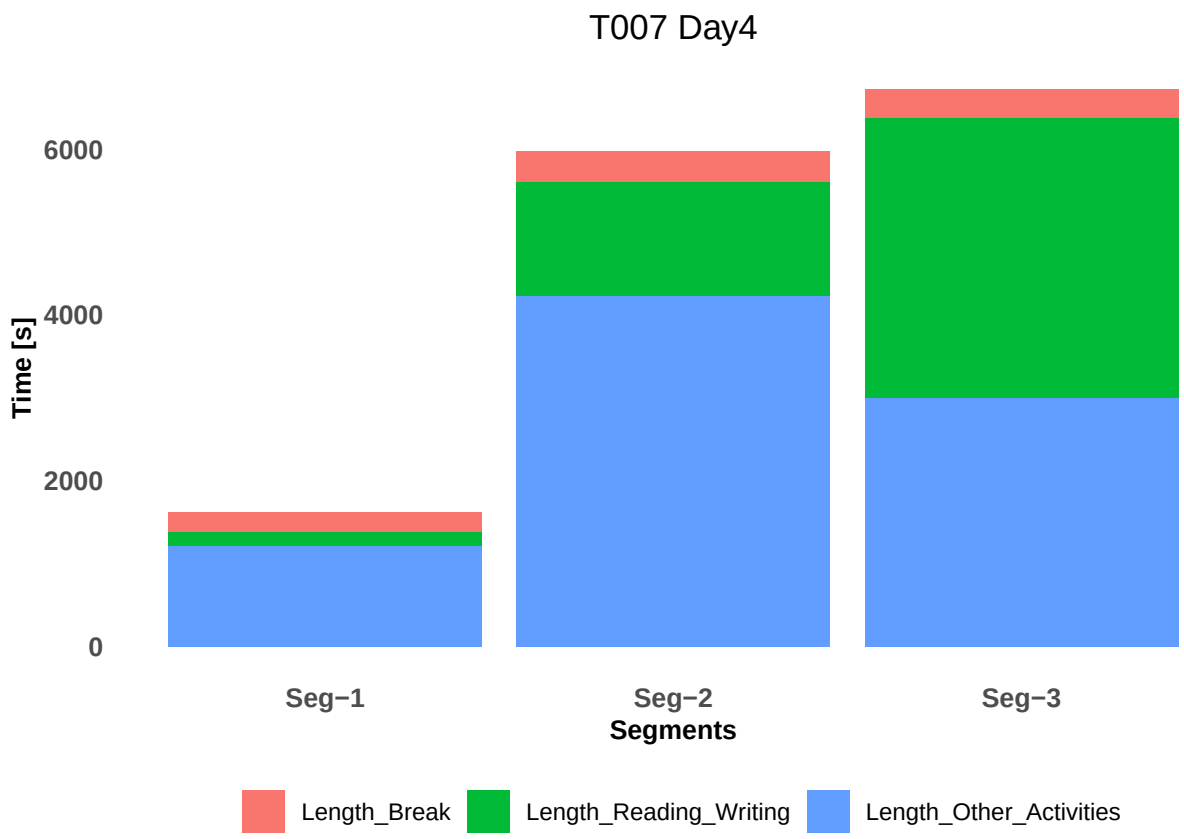

T005 Day3
9000
6000
3000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

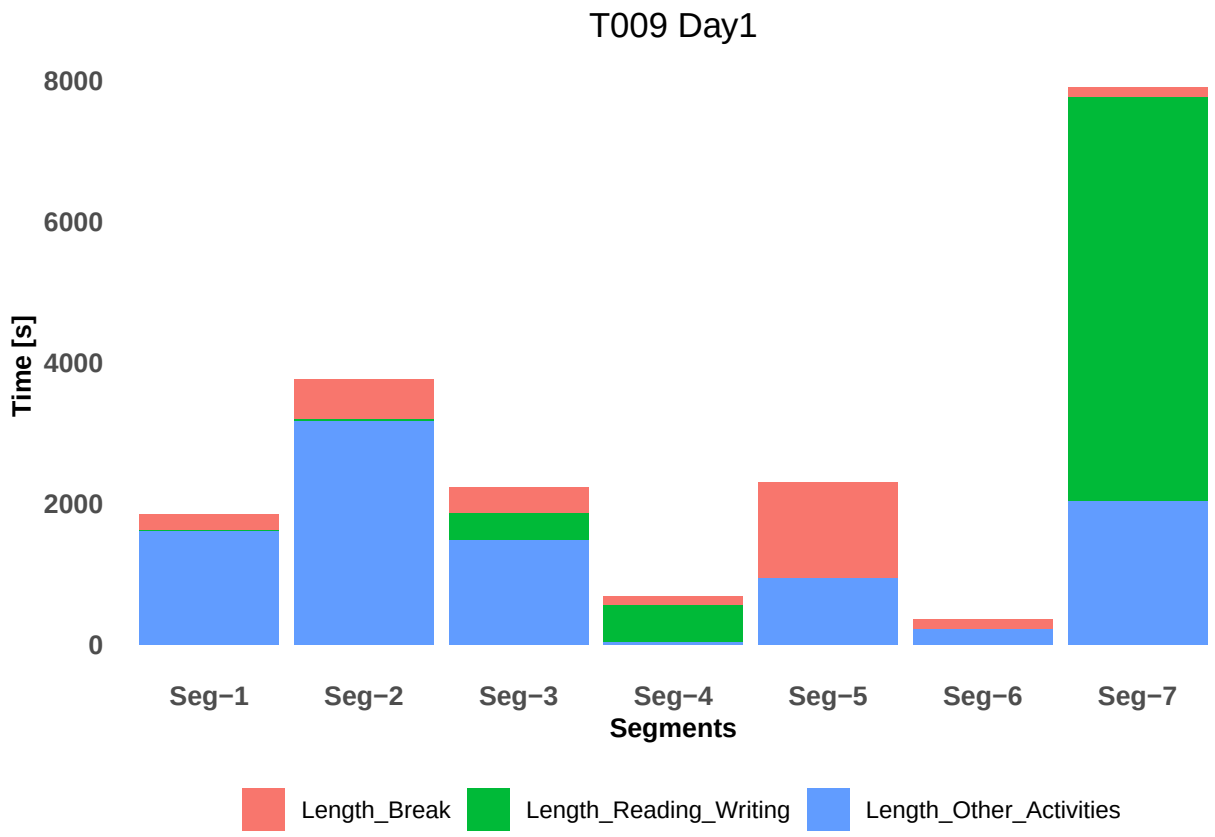

T005 Day4
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

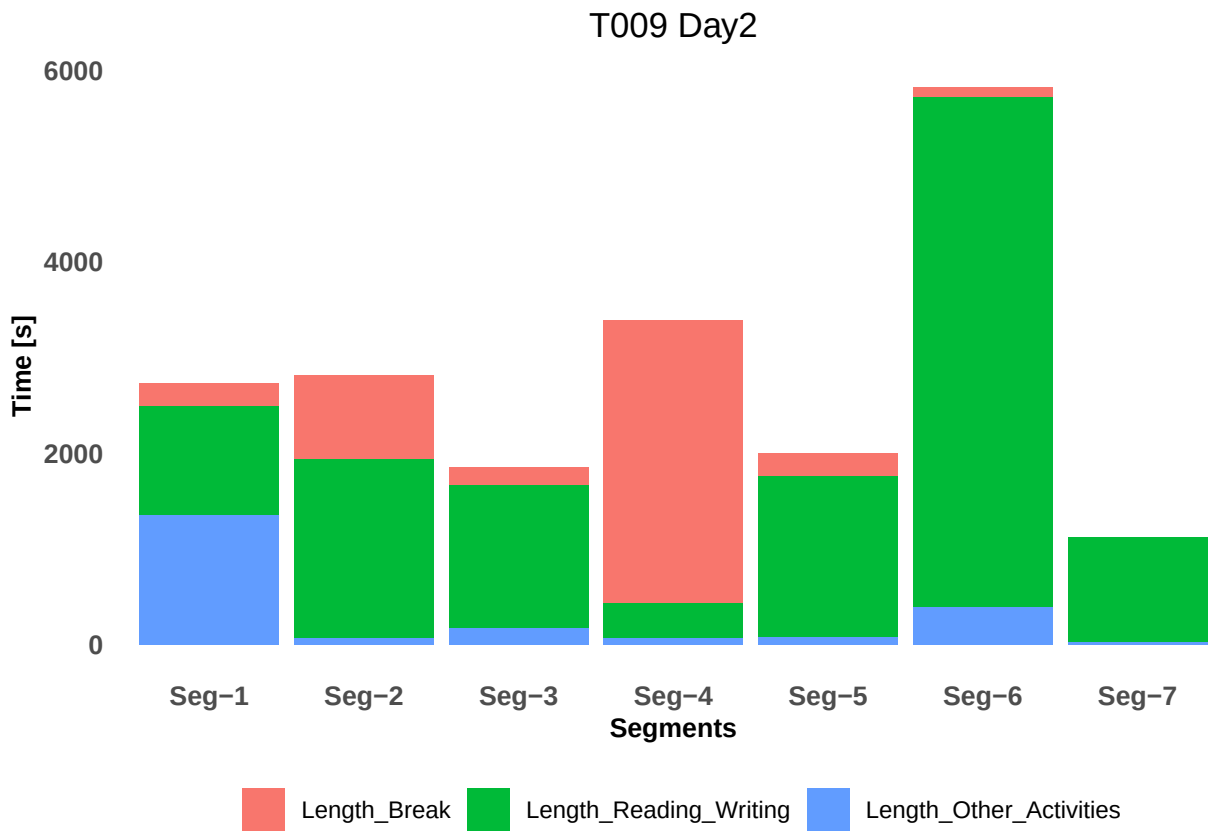

T007 Day1
7500
5000
2500
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

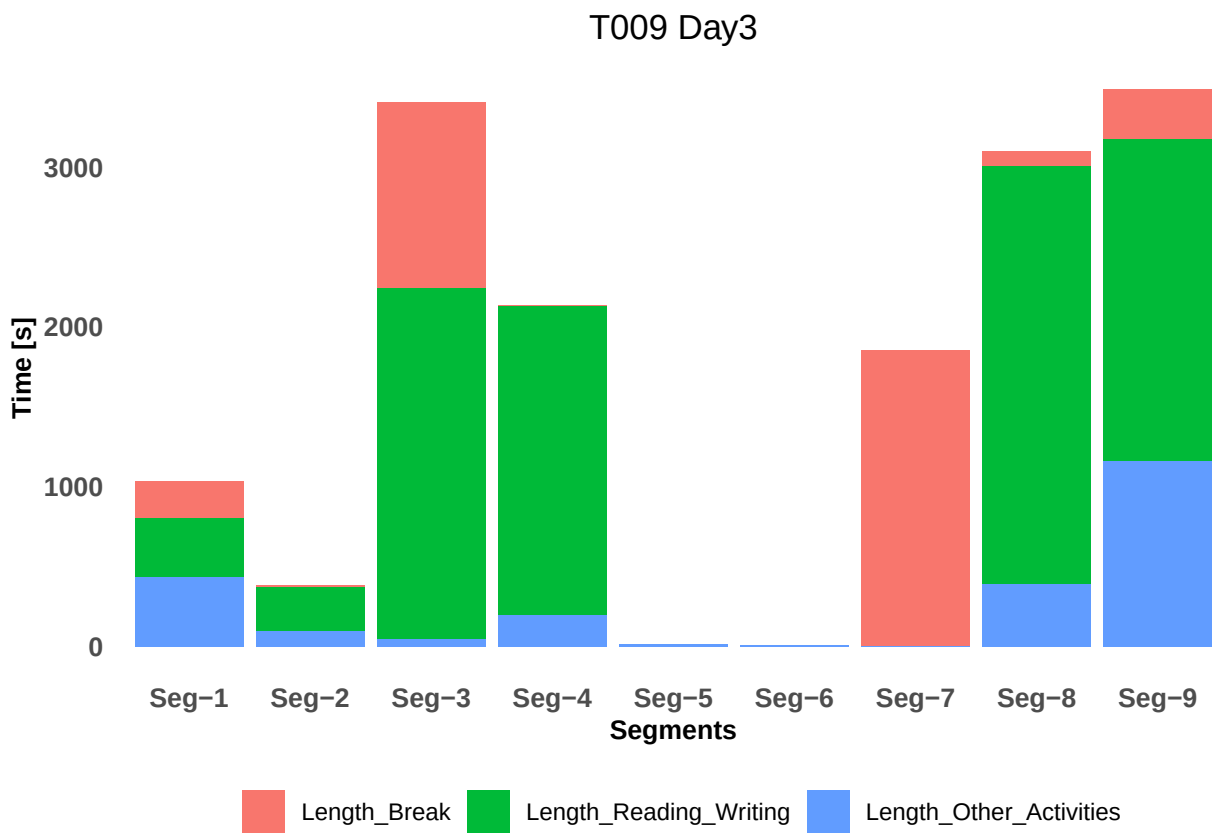

T007 Day2
7500
5000
2500
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

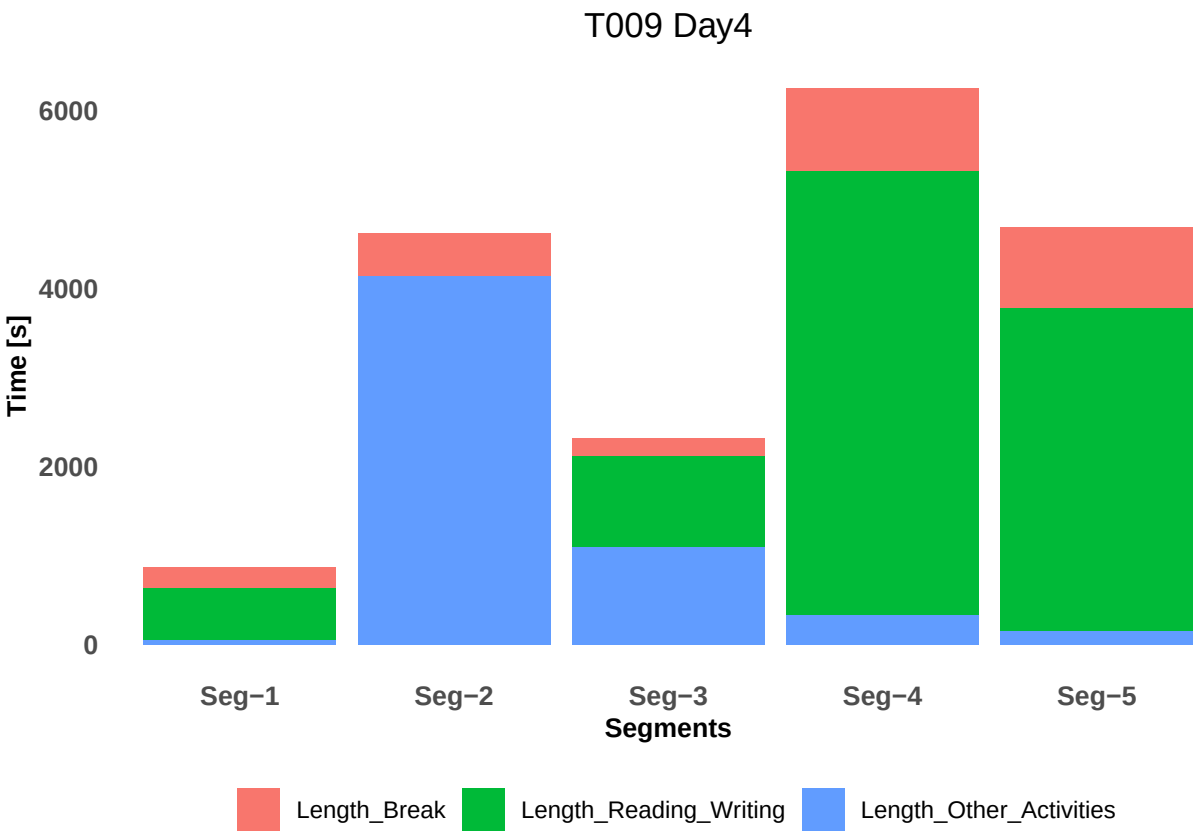

T007 Day3
8000
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

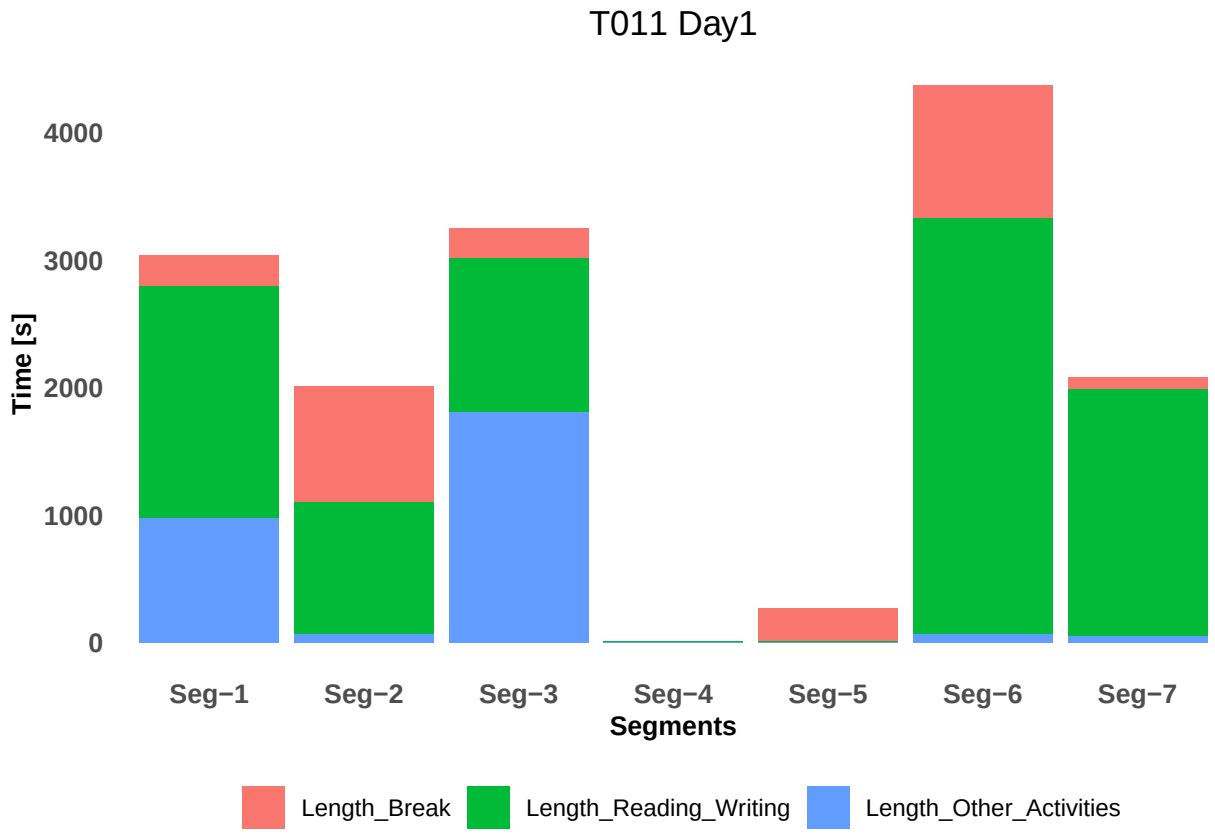

T007 Day4
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

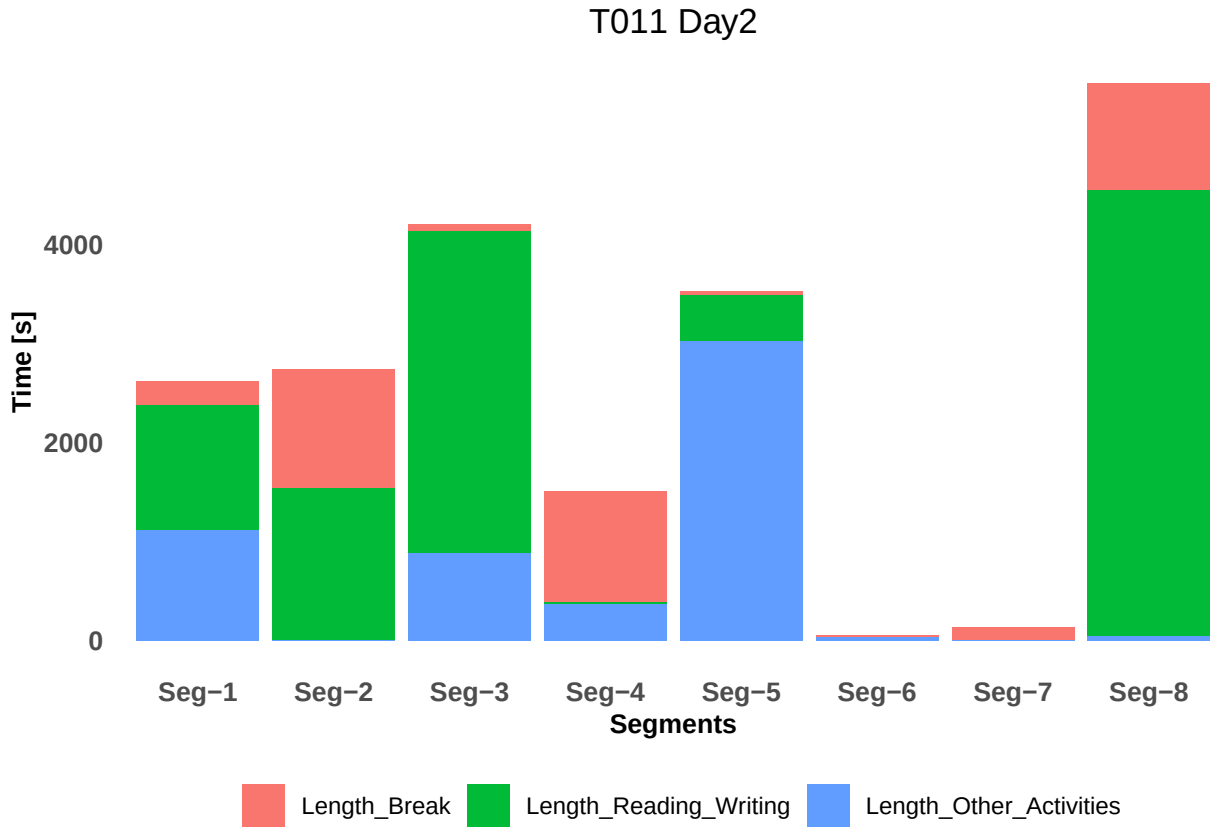

T009 Day1
8000
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Seg−7
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

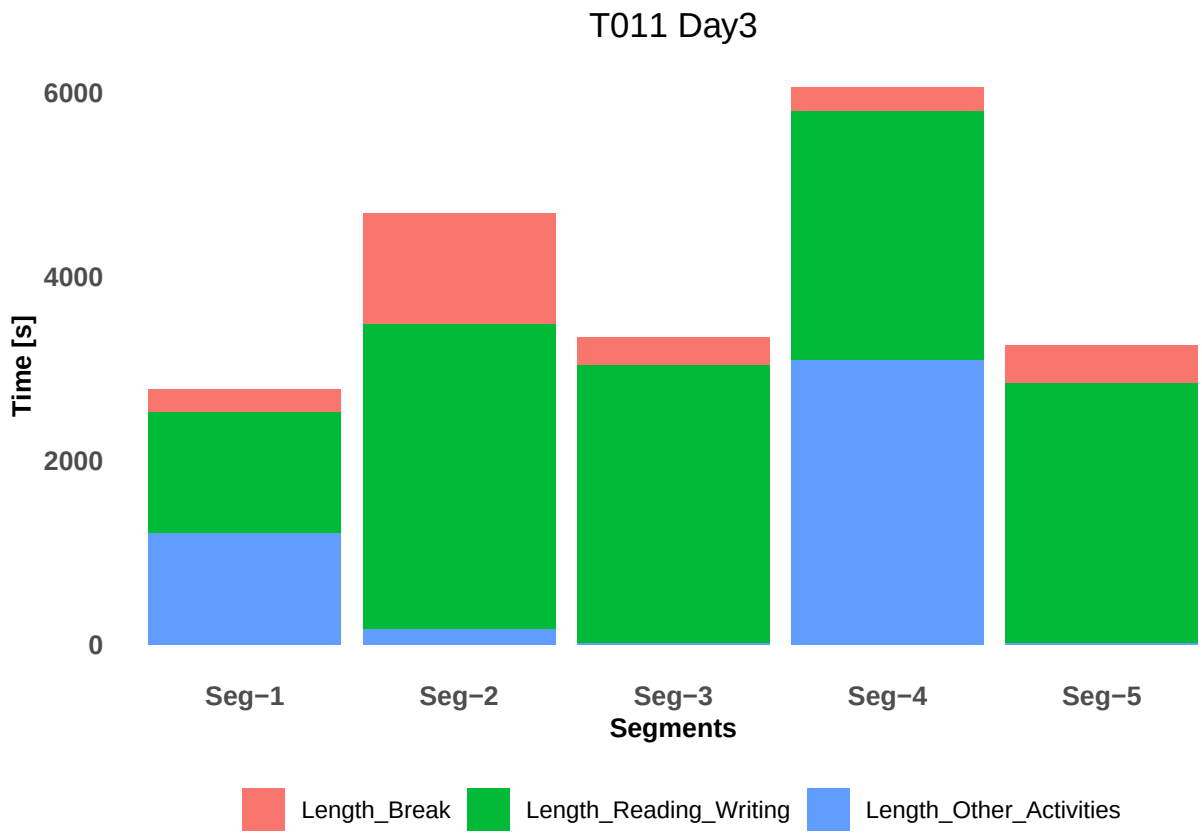

T009 Day2
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Seg−7
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

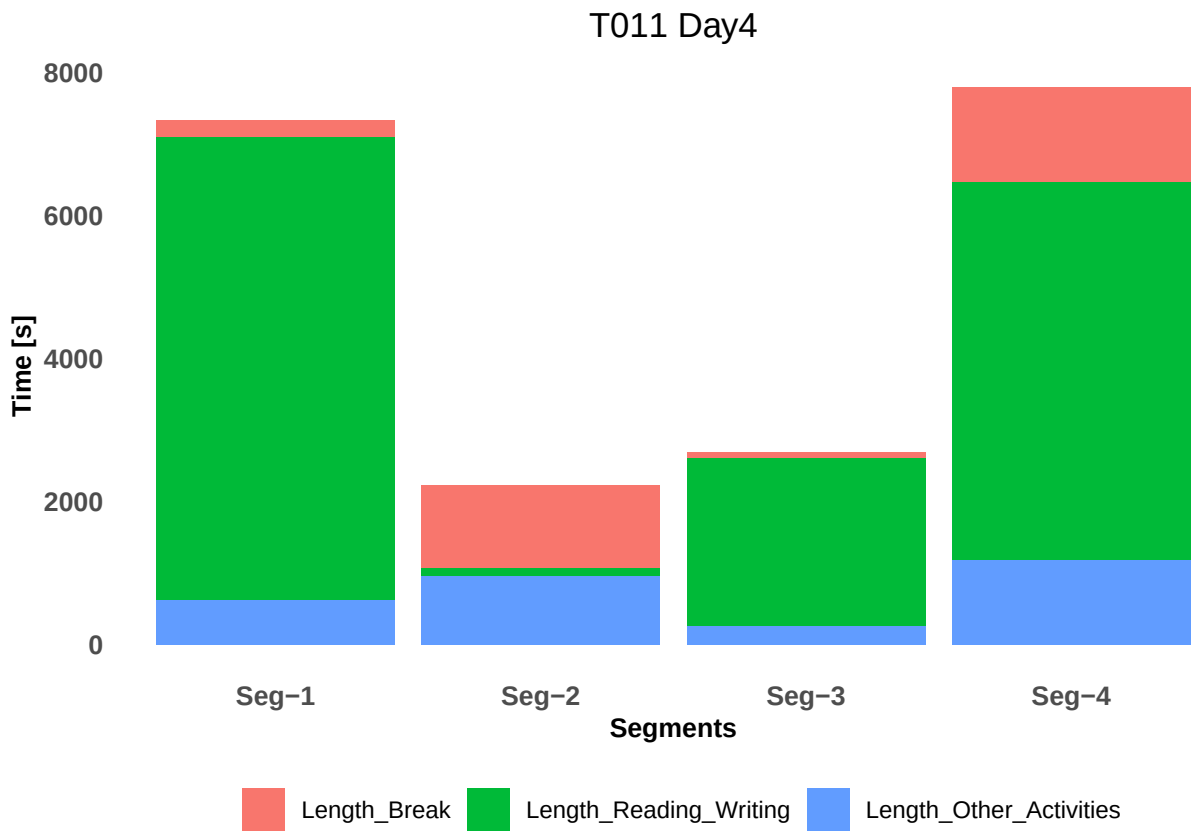

T009 Day3
Time [s]
3000
2000
1000
0
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Seg−7
Seg−8
Seg−9
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

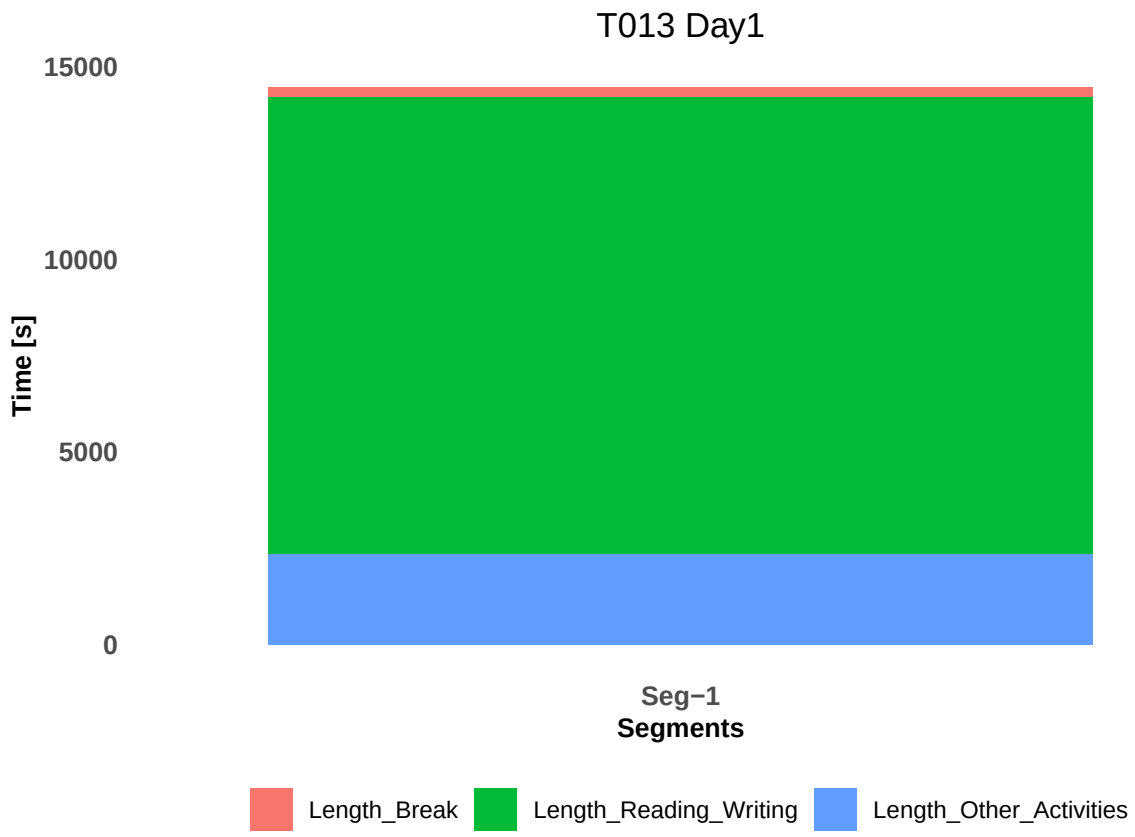

T009 Day4
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

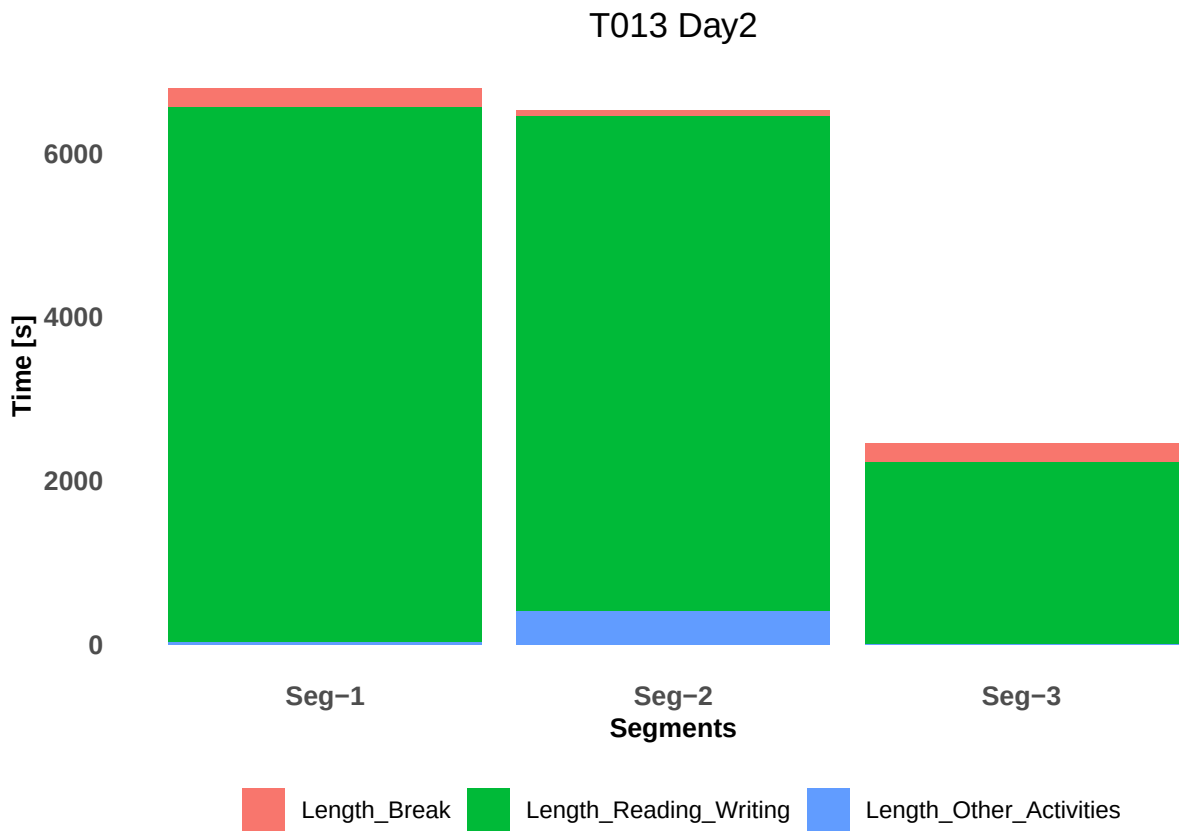

T011 Day1
4000
3000
2000
1000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Seg−7
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

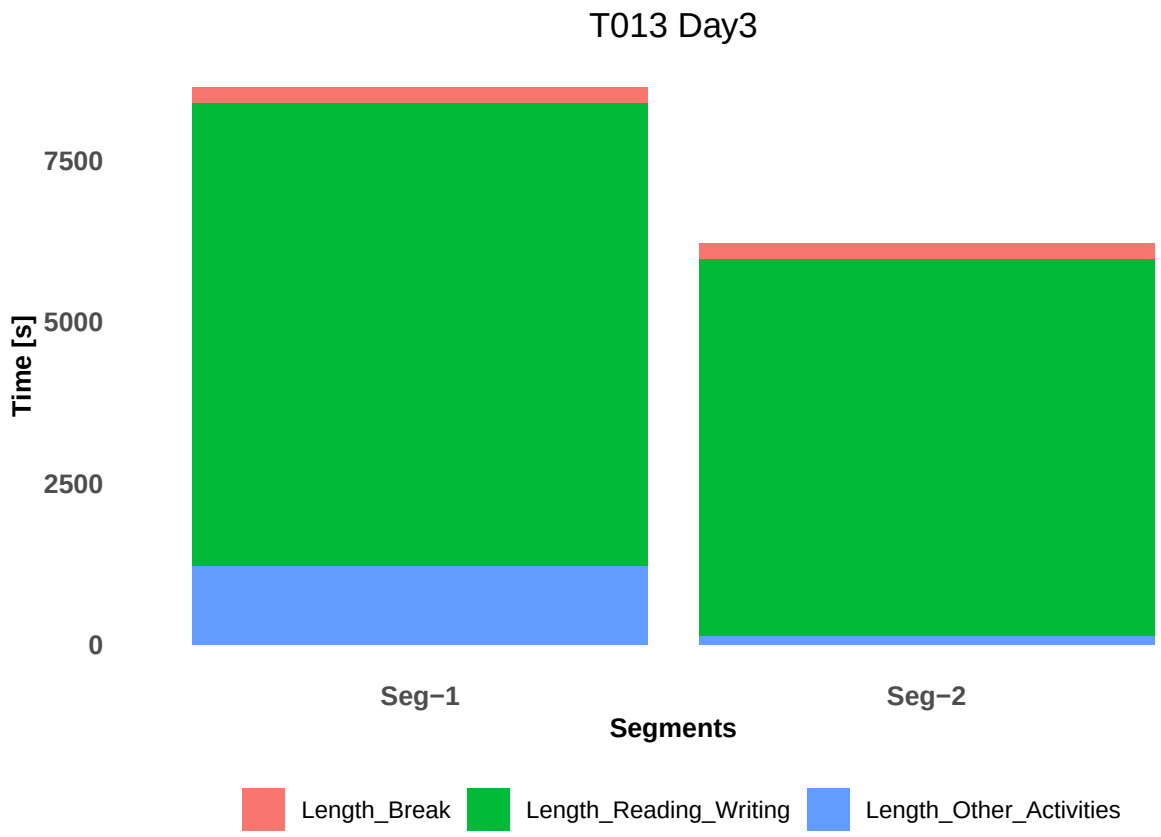

T011 Day2
Time [s]
4000
2000
0
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Seg−6
Seg−7
Seg−8
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

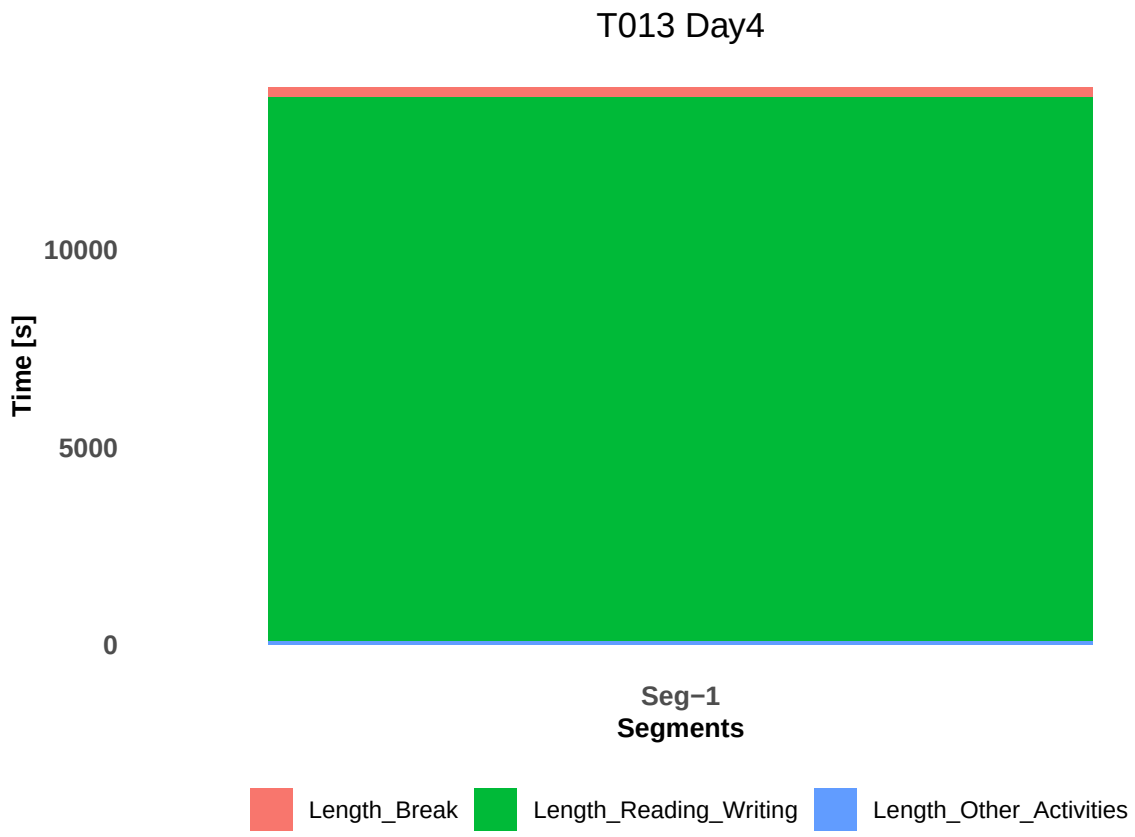

T011 Day3
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

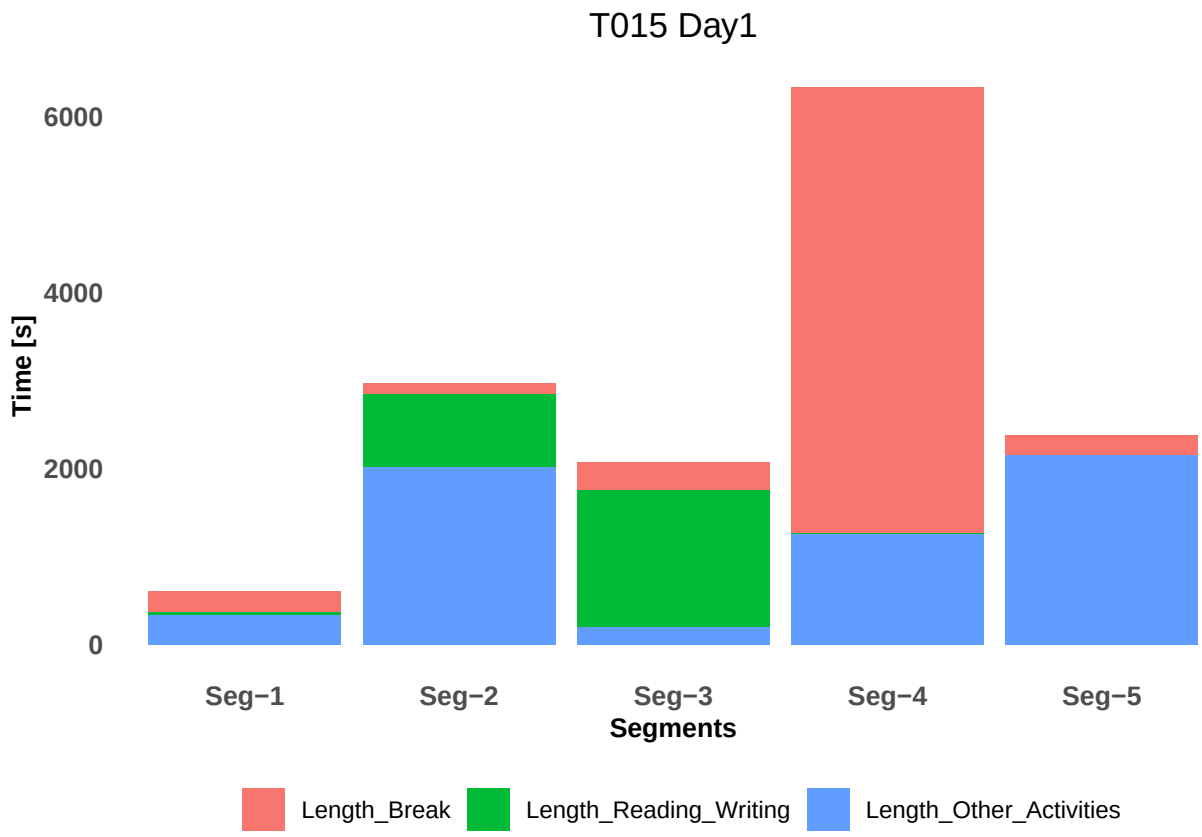

T011 Day4
8000
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

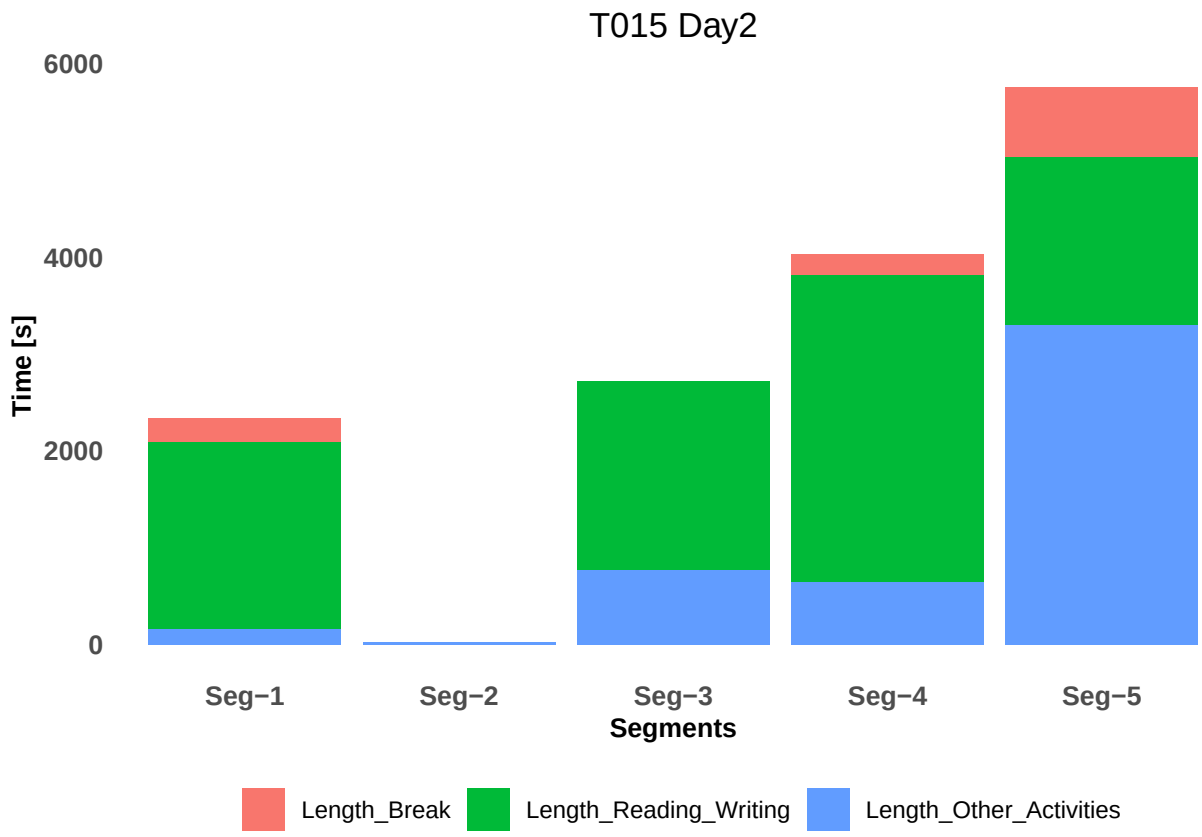

T013 Day1
15000
10000
5000
0
Time [s]
Seg−1
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

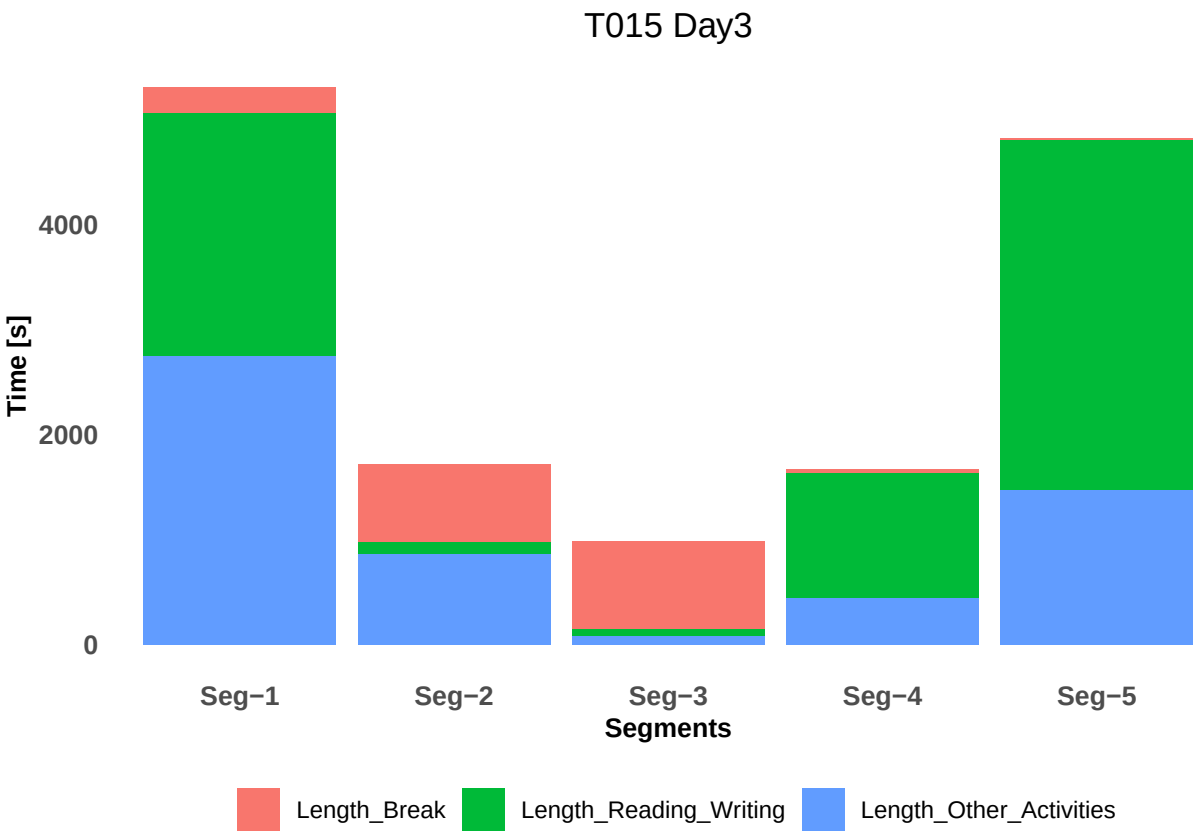

T013 Day2
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

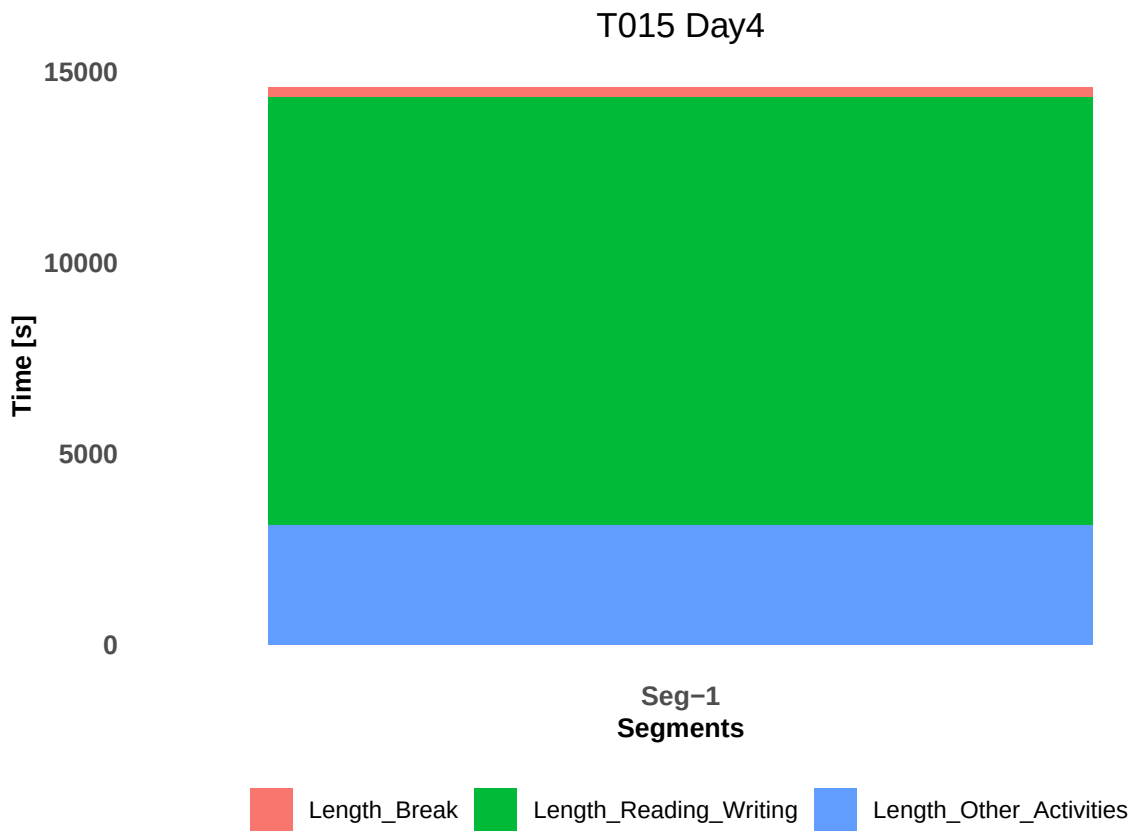

T013 Day3
7500
5000
2500
0
Time [s]
Seg−1
Seg−2
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

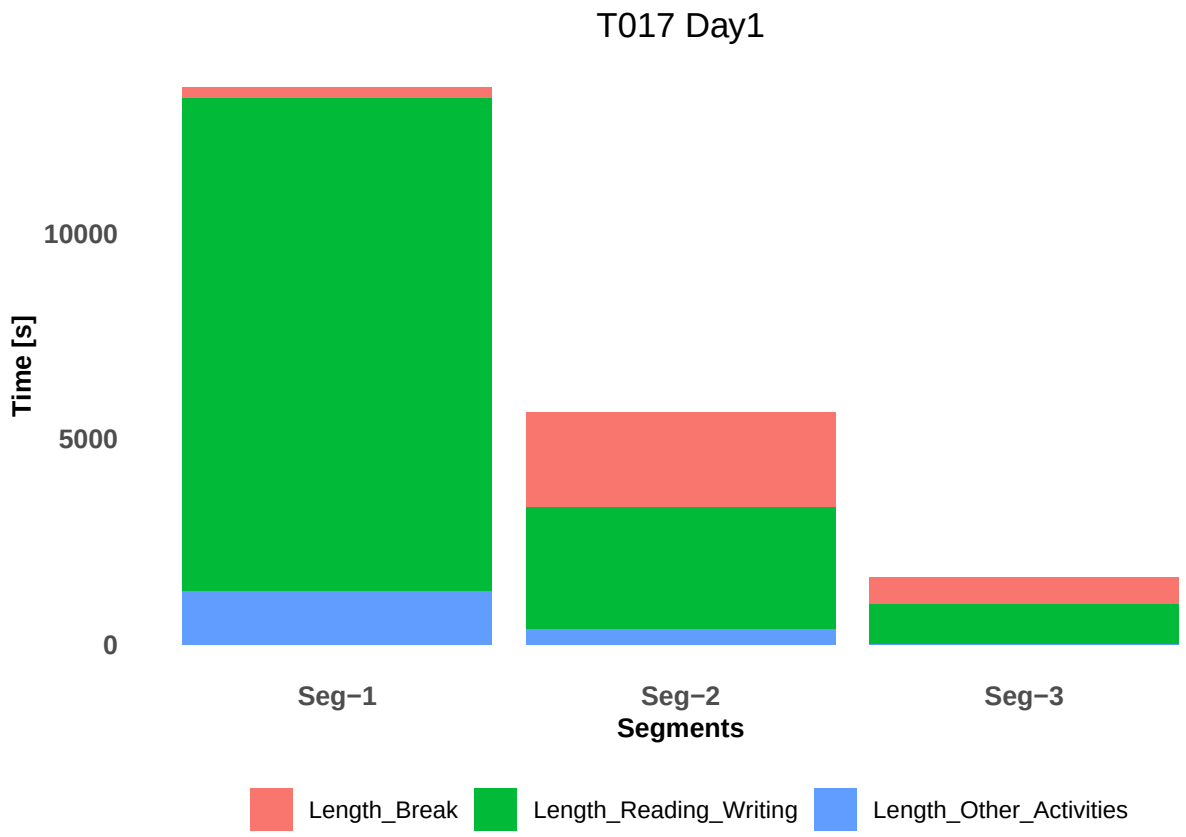

T013 Day4
10000
5000
0
Time [s]
Seg−1
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

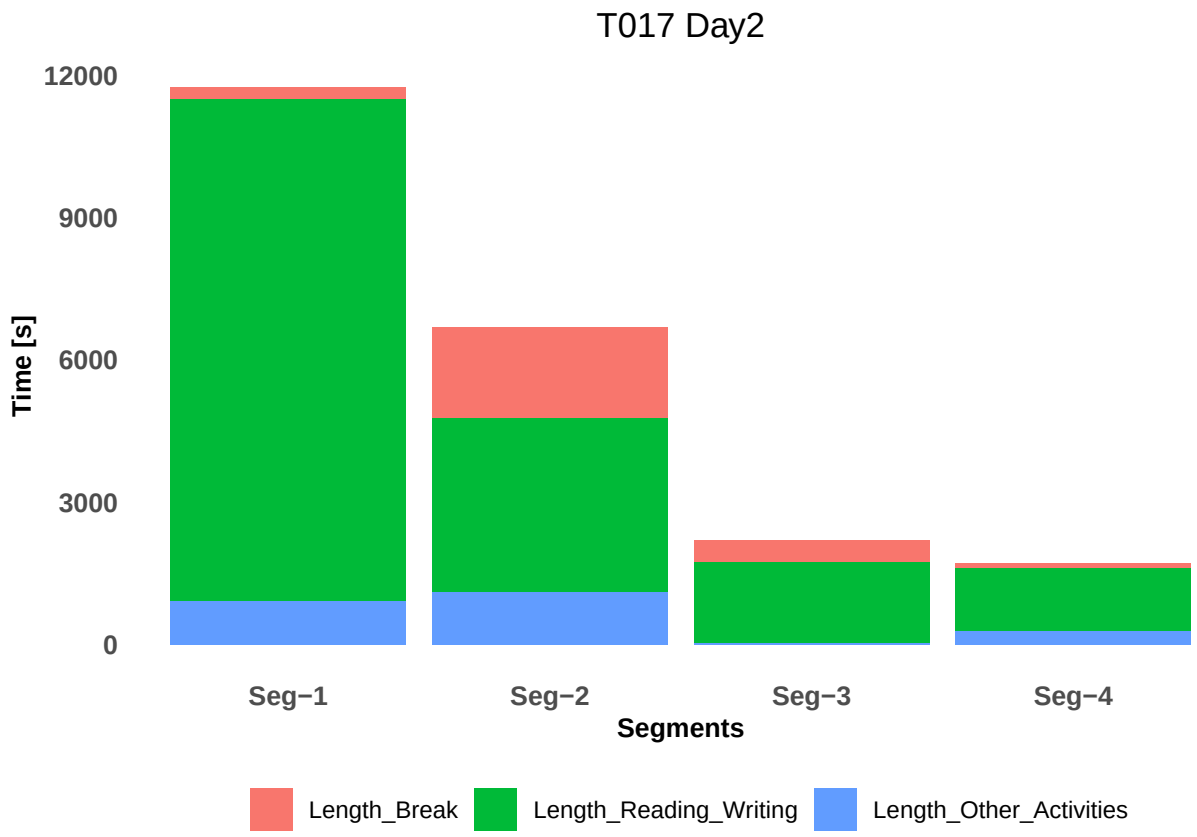

T015 Day1
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

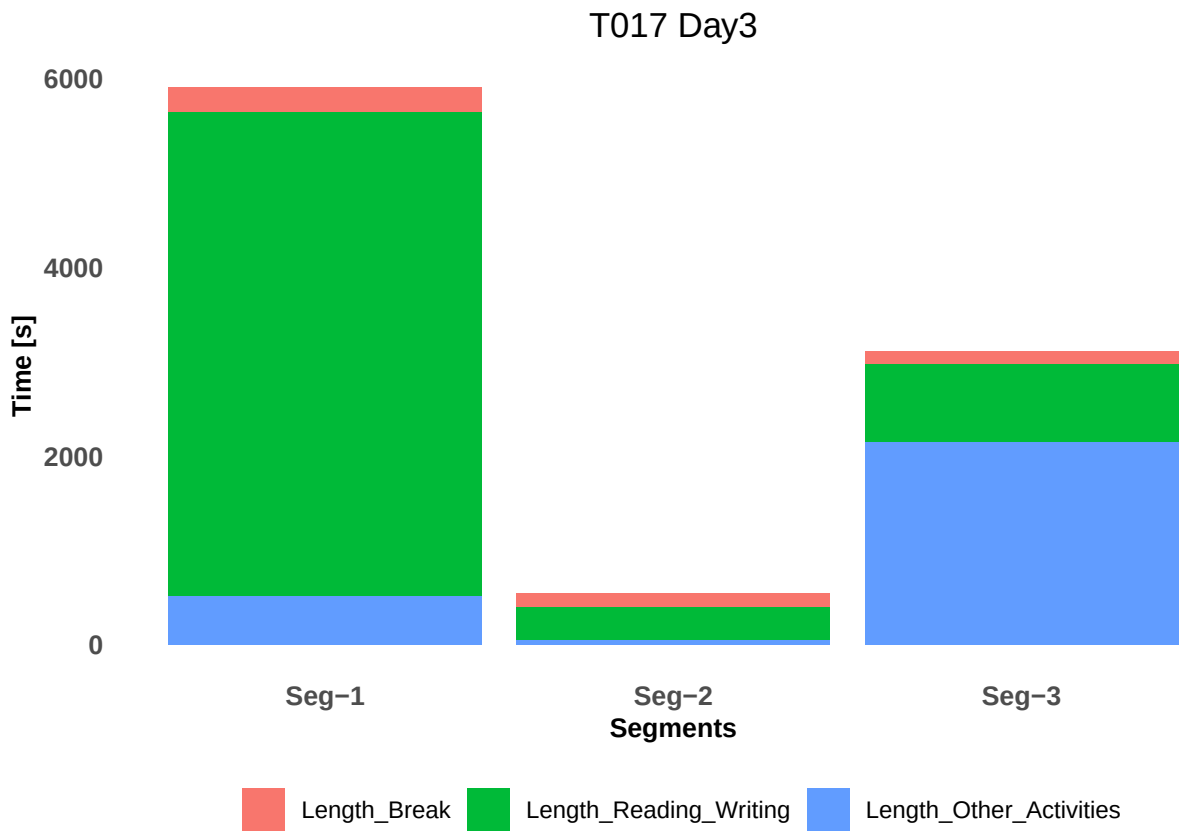

T015 Day2
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

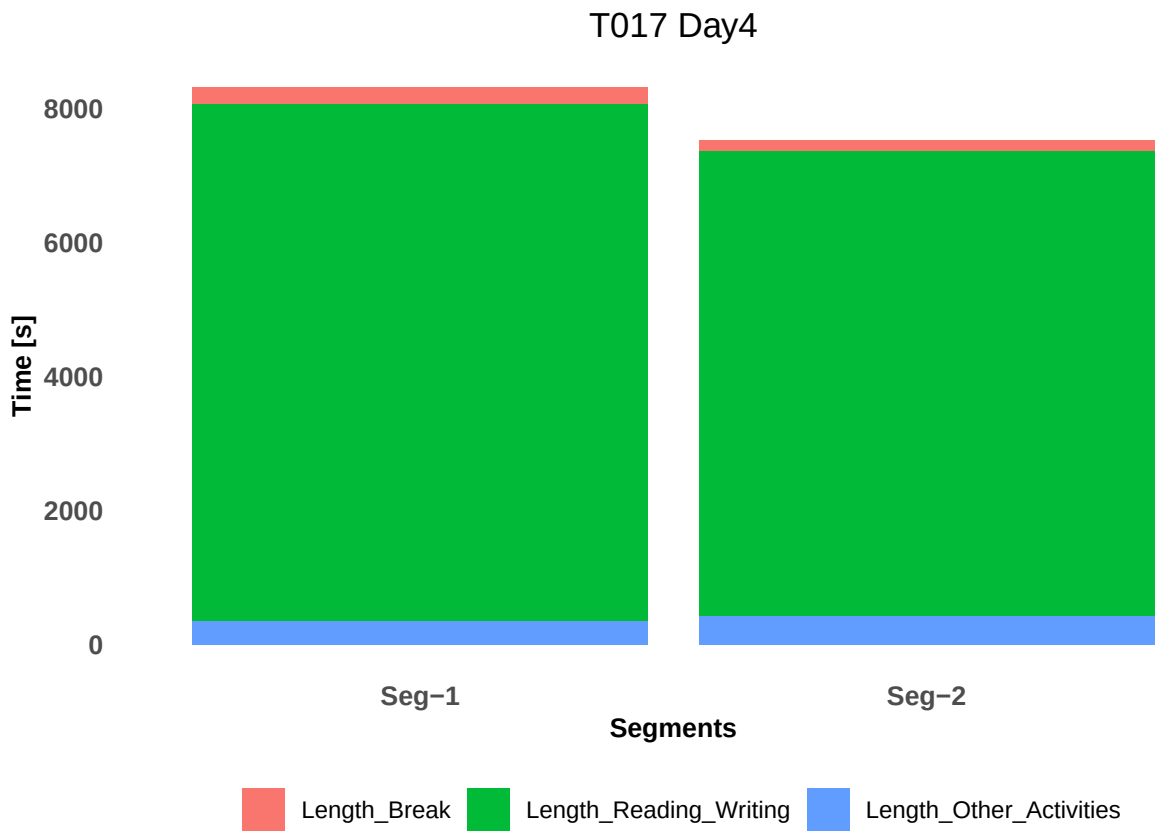

T015 Day3
Time [s]
4000
2000
0
Seg−1
Seg−2
Seg−3
Seg−4
Seg−5
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities


T015 Day4
15000
10000
5000
0
Time [s]
Seg−1
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities


T017 Day1
10000
5000
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities


T017 Day2
12000
9000
6000
3000
0
Time [s]
Seg−1
Seg−2
Seg−3
Seg−4
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities


T017 Day3
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Seg−3
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities


T017 Day4
8000
6000
4000
2000
0
Time [s]
Seg−1
Seg−2
Segments
Length_Break
Length_Reading_Writing
Length_Other_Activities

Model1 with Normalized_mean_RW ~ Length_Break + Length_Reading_Writing + Length_Other_Activities

```
##
## Call:
## lm(formula = Normalized_PP_mean_RW ~ Length_Break + Length_Reading_Writing +
##     Length_Other_Activities, data = Merged_Data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.03991 -0.10547 -0.00388  0.11378  0.52210
##
## Coefficients:
##                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)              1.303e-01  3.693e-02   3.529 0.000602 ***
## Length_Break             6.657e-05  3.220e-05   2.067 0.040982 *
## Length_Reading_Writing  -5.718e-06  6.022e-06  -0.950 0.344320
## Length_Other_Activities -8.479e-06  1.743e-05  -0.486 0.627635
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2274 on 114 degrees of freedom
##   (20 observations deleted due to missingness)
## Multiple R-squared:  0.04701,    Adjusted R-squared:  0.02193
## F-statistic: 1.875 on 3 and 114 DF,  p-value: 0.1379

## Analysis of Variance Table
##
## Response: Normalized_PP_mean_RW
##                           Df Sum Sq  Mean Sq F value  Pr(>F)
## Length_Break               1 0.2338 0.233767  4.5188 0.03568 *
## Length_Reading_Writing     1 0.0449 0.044917  0.8683 0.35341
## Length_Other_Activities    1 0.0122 0.012238  0.2366 0.62763
## Residuals                114 5.8975 0.051732
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Model2 with Normalized_mean_RW ~ Length_Break + Length_Reading_Writing + Length_Other_Activities + Trait_anxiety

```
##
## Call:
## lm(formula = Normalized_PP_mean_RW ~ Length_Break + Length_Reading_Writing +
##     Length_Other_Activities + Trait_anxiety, data = Merged_Data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.97326 -0.09998  0.00372  0.13990  0.46810
##
## Coefficients:
##                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)              -2.386e-01  1.023e-01  -2.332 0.021492 *
## Length_Break              6.645e-05  3.043e-05   2.184 0.031016 *
## Length_Reading_Writing   -3.603e-06  5.716e-06  -0.630 0.529777
## Length_Other_Activities   4.559e-06  1.682e-05   0.271 0.786845
## Trait_anxiety             8.209e-03  2.140e-03   3.835 0.000207 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2149 on 113 degrees of freedom
##   (20 observations deleted due to missingness)
## Multiple R-squared:  0.1568, Adjusted R-squared:  0.1269
## F-statistic: 5.252 on 4 and 113 DF,  p-value: 0.0006453

## Analysis of Variance Table
##
## Response: Normalized_PP_mean_RW
##                           Df Sum Sq Mean Sq F value   Pr(>F)
## Length_Break               1 0.2338 0.23377  5.0622 0.026390 *
## Length_Reading_Writing     1 0.0449 0.04492  0.9727 0.326122
## Length_Other_Activities    1 0.0122 0.01224  0.2650 0.607706
## Trait_anxiety              1 0.6792 0.67923 14.7086 0.000207 ***
## Residuals                113 5.2183 0.04618
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Model3 with Normalized_mean_RW ~ Length_Break + Length_Reading_Writing + Length_Other_Activities + Normalized_mean_Other

```
##
## Call:
## lm(formula = Normalized_PP_mean_RW ~ Length_Break + Length_Reading_Writing +
##     Length_Other_Activities + Normalized_PP_mean_Other, data = Merged_Data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.31682 -0.04736  0.00655  0.04423  0.27702
##
## Coefficients:
##                            Estimate Std. Error t value Pr(>|t|)
## (Intercept)              -6.027e-04  1.869e-02  -0.032  0.97434
## Length_Break              4.891e-05  1.395e-05   3.507  0.00069 ***
## Length_Reading_Writing    2.026e-06  3.364e-06   0.602  0.54834
## Length_Other_Activities  -5.116e-06  8.105e-06  -0.631  0.52934
## Normalized_PP_mean_Other  8.077e-01  3.649e-02  22.137  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.09605 on 96 degrees of freedom
##   (37 observations deleted due to missingness)
## Multiple R-squared:  0.844,  Adjusted R-squared:  0.8375
## F-statistic: 129.9 on 4 and 96 DF,  p-value: < 2.2e-16

## Analysis of Variance Table
##
## Response: Normalized_PP_mean_RW
##                           Df Sum Sq Mean Sq  F value    Pr(>F)
## Length_Break               1 0.2487  0.2487  26.9613 1.161e-06 ***
## Length_Reading_Writing     1 0.0053  0.0053   0.5799    0.4482
## Length_Other_Activities    1 0.0177  0.0177   1.9171    0.1694
## Normalized_PP_mean_Other   1 4.5207  4.5207 490.0604 < 2.2e-16 ***
## Residuals                 96 0.8856  0.0092
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```