

# CBW - IATH

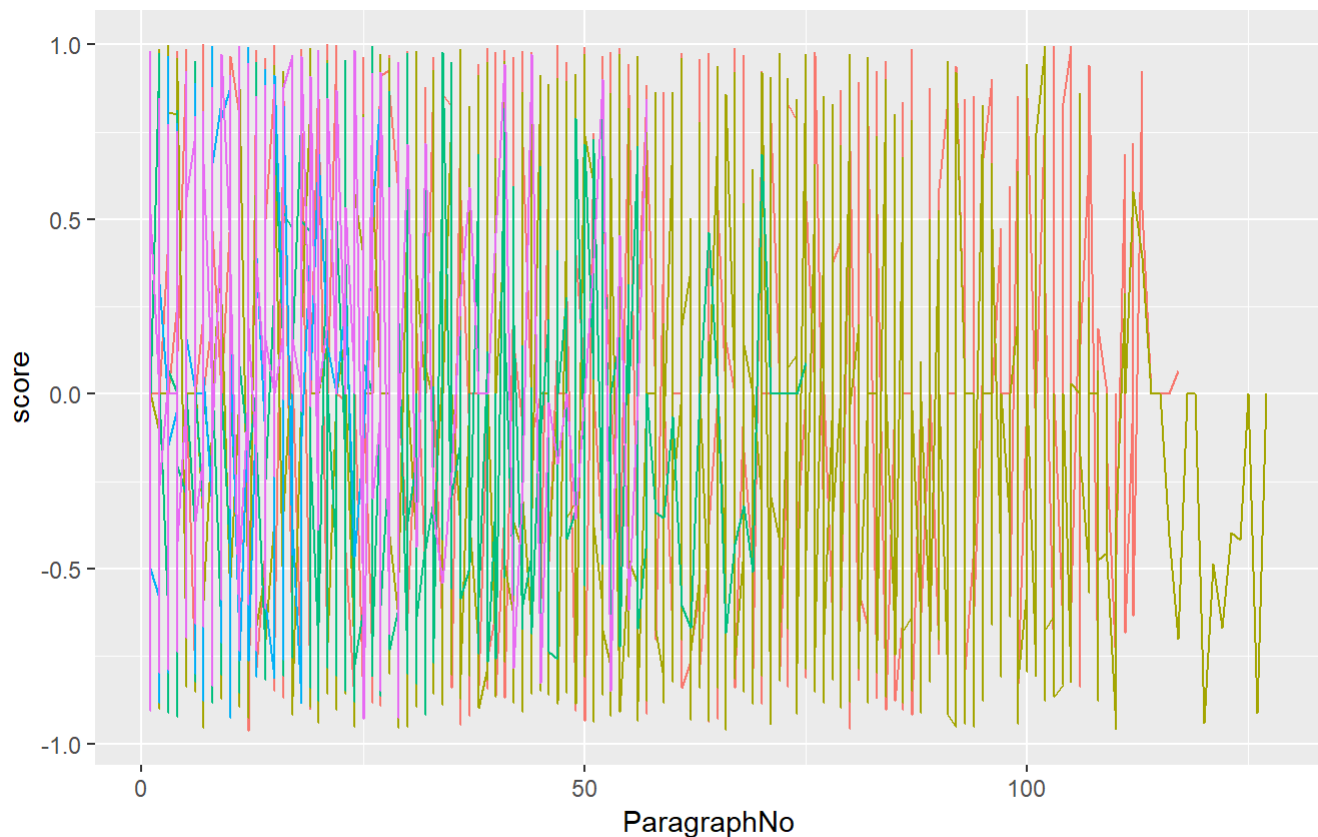
## Association Rule analysis

```
## Warning: package 'ggplot2' was built under R version 3.5.1
```

### Top 5 Authors

```
## [1] "Robert Cochrane"
## [2] "Albert Payson Terhune"
## [3] "Millicent Garrett Fawcett and Steuart Beatrice"
## [4] "Ethel Colburn Mayne"
## [5] "A. J. Green Armytage"
```

### Sentiment across Narrative time



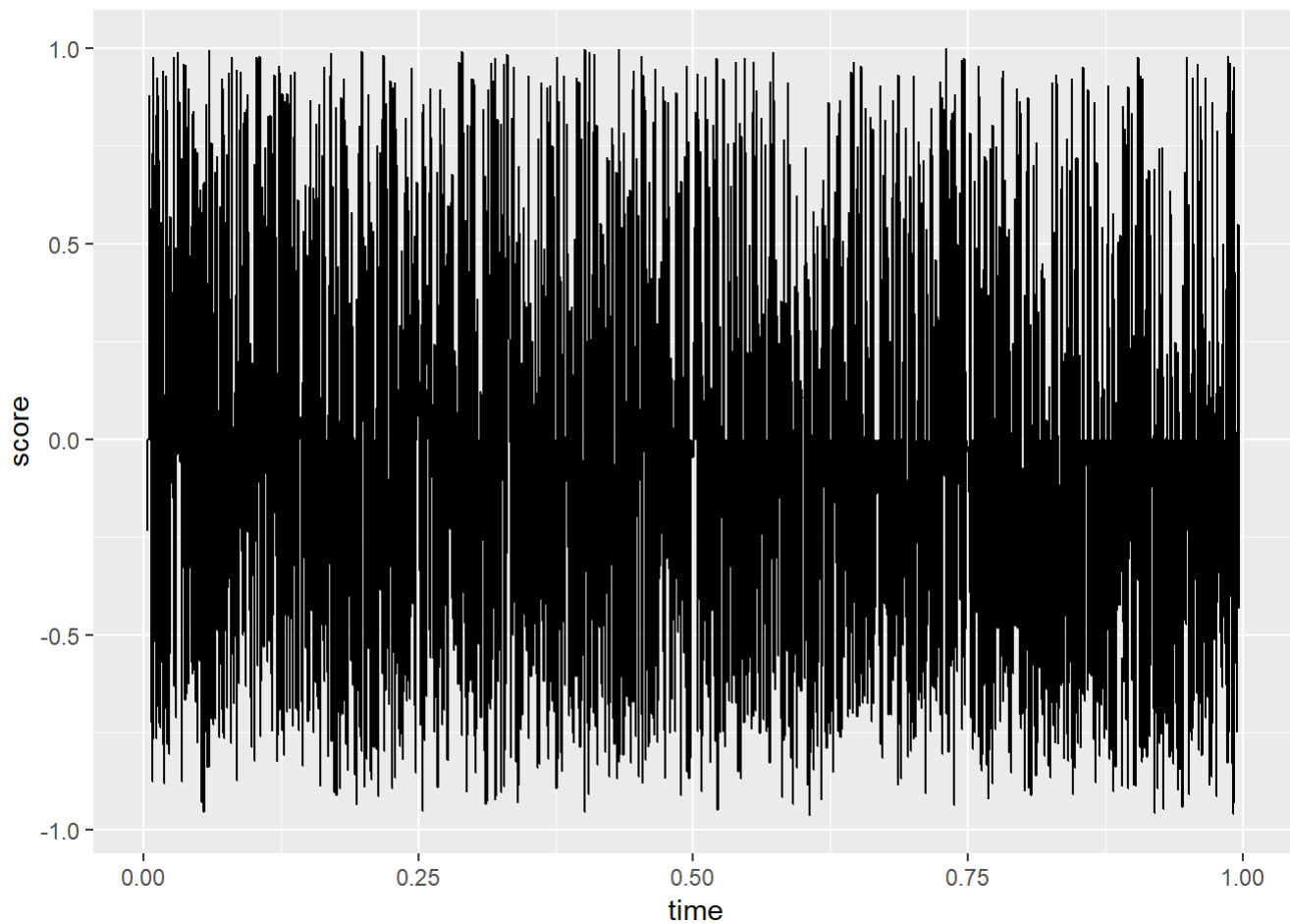
A. J. Green Armytage    Albert Payson Terhune    Ethel Colburn Mayne    Millicent Garrett Fawcett and Steuart Beatrice

### Standardizing the time line

Instead of having the absolute count of the paragraph, we can have the time normalized between 0 and 1. This will enable us to compare different biographies irrespective of their paragraph length

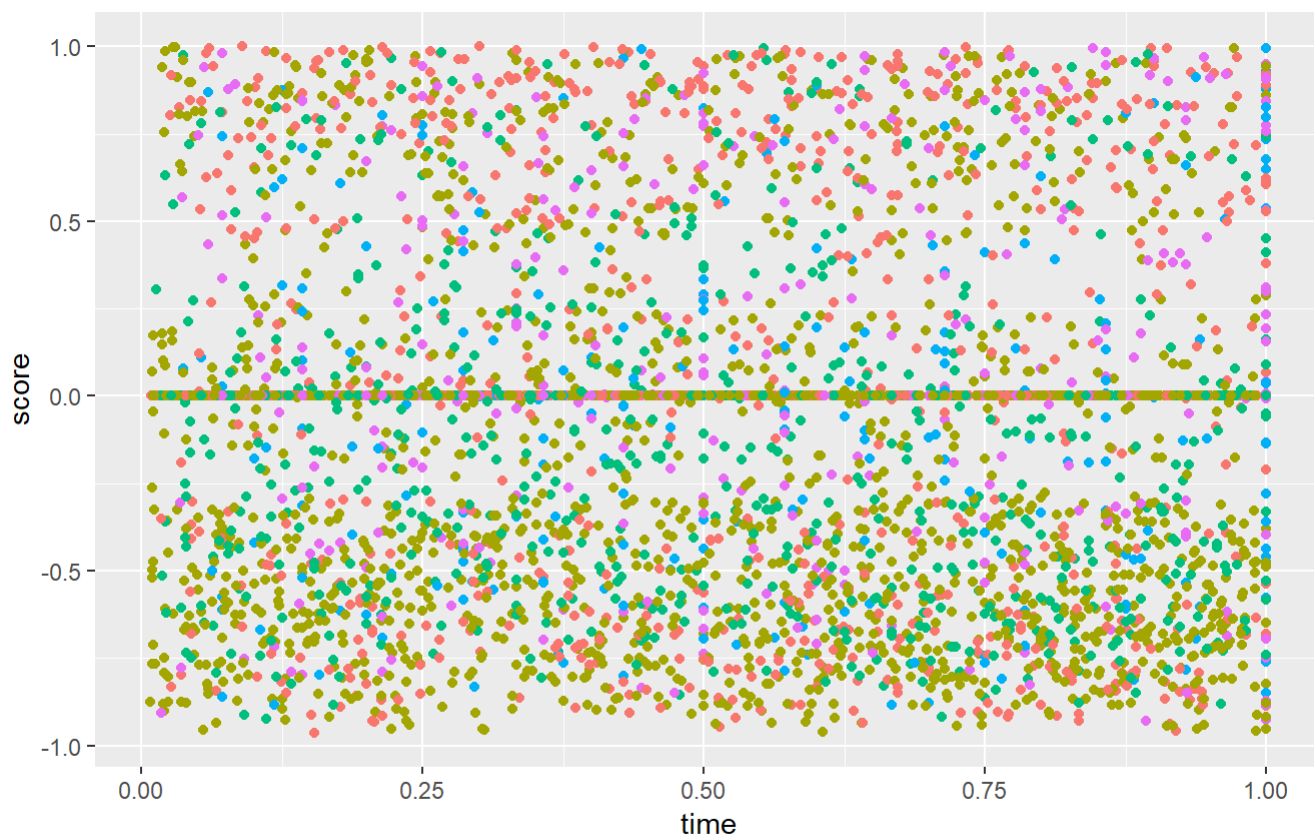
### Overall analysis for all the Authors

```
## Warning: Removed 1 rows containing missing values (geom_path).
```



### Sentiment across Narrative time - Standardized for Top Authors

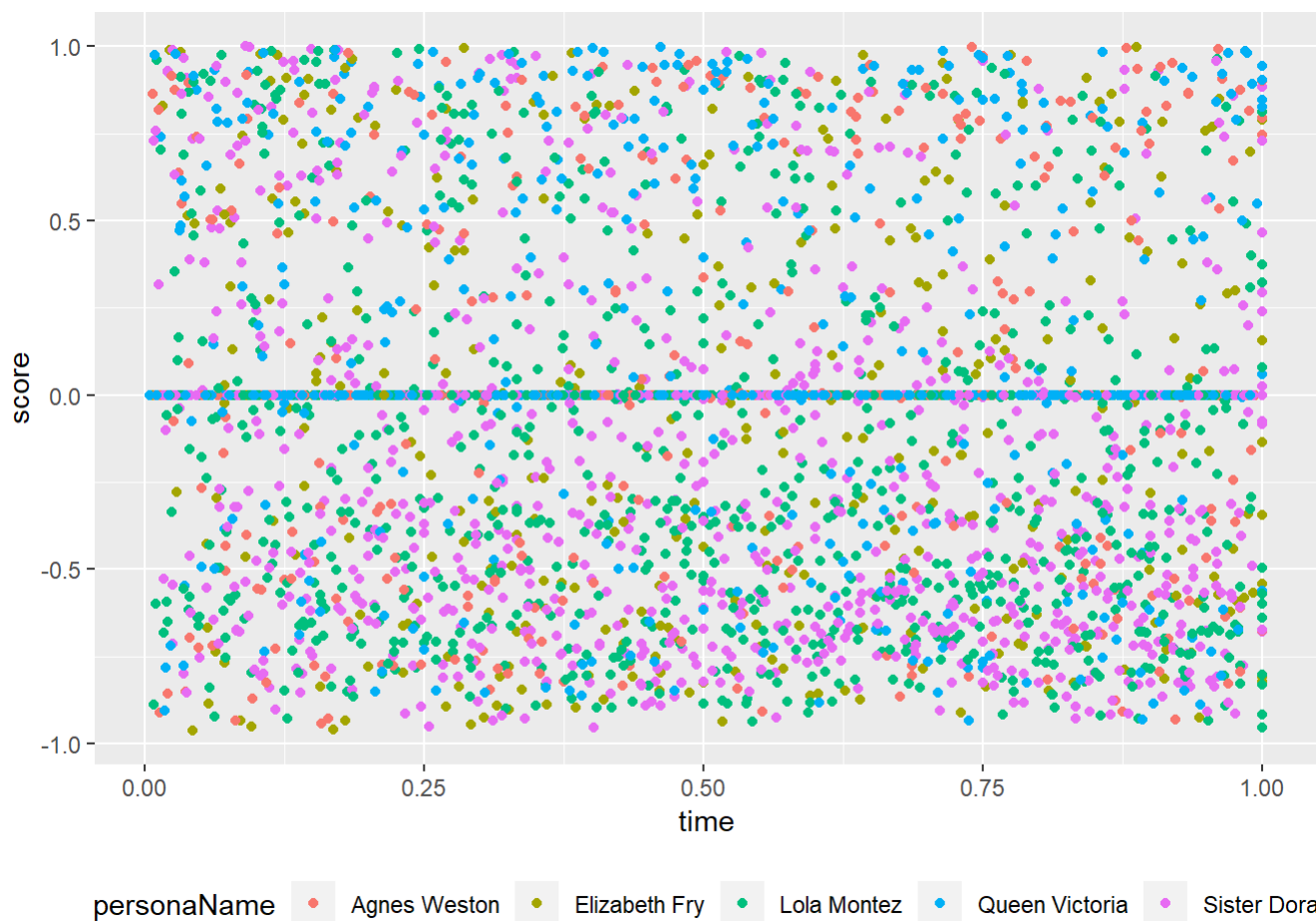
```
## Warning: Removed 15 rows containing missing values (geom_point).
```



A. J. Green Armytage    Albert Payson Terhune    Ethel Colburn Mayne    Millicent Garrett Fawcett and Steuart Beatrice

## Sentiment across Narrative time - Standardized for Top Persona

```
## Warning: Removed 3 rows containing missing values (geom_point).
```

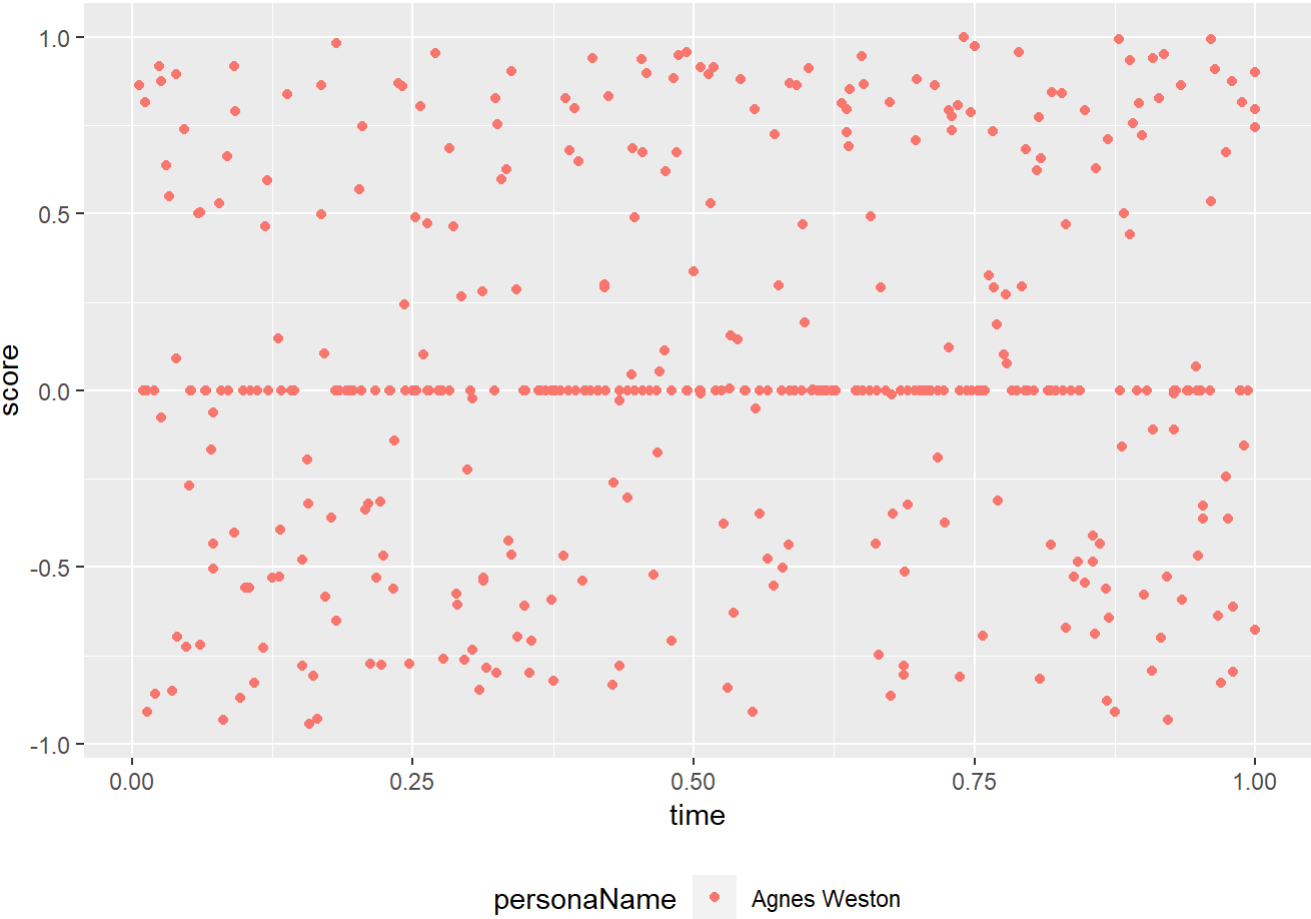


## Sentiment across Narrative time - Sister Dora

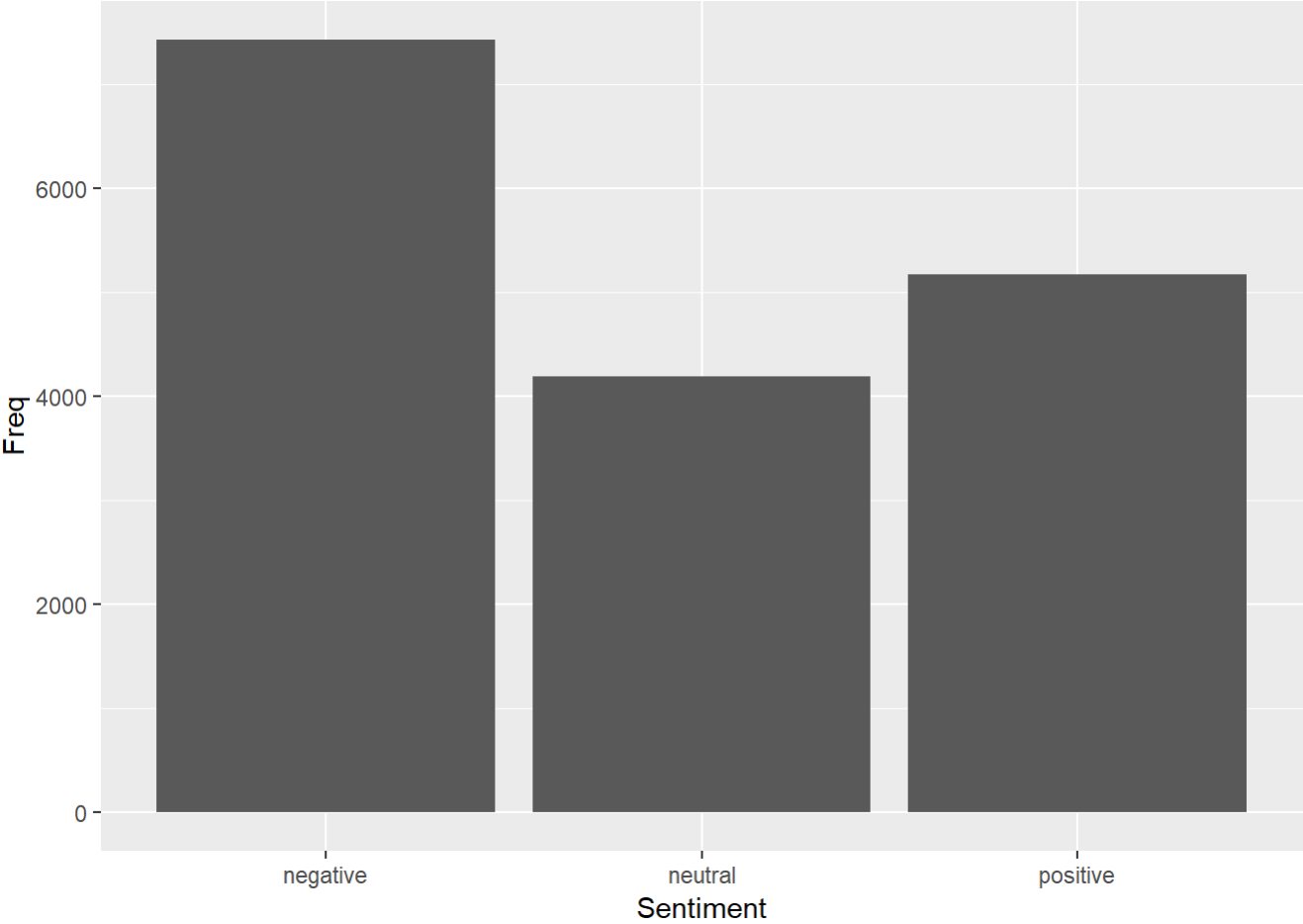
```
## Warning: Removed 1 rows containing missing values (geom_point).
```



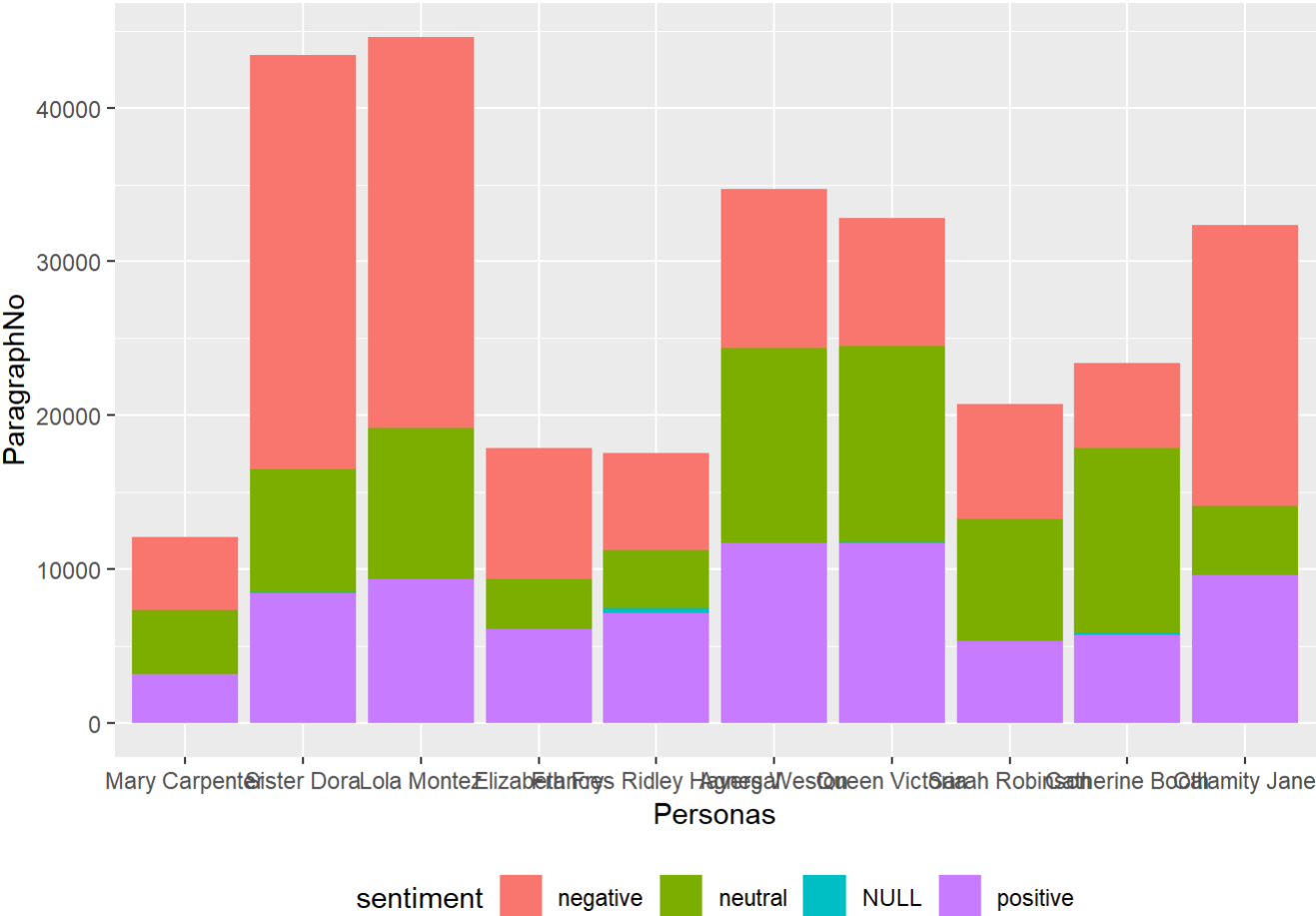
## Sentiment across Narrative time - Agnes Weston



Sentiment Distribution

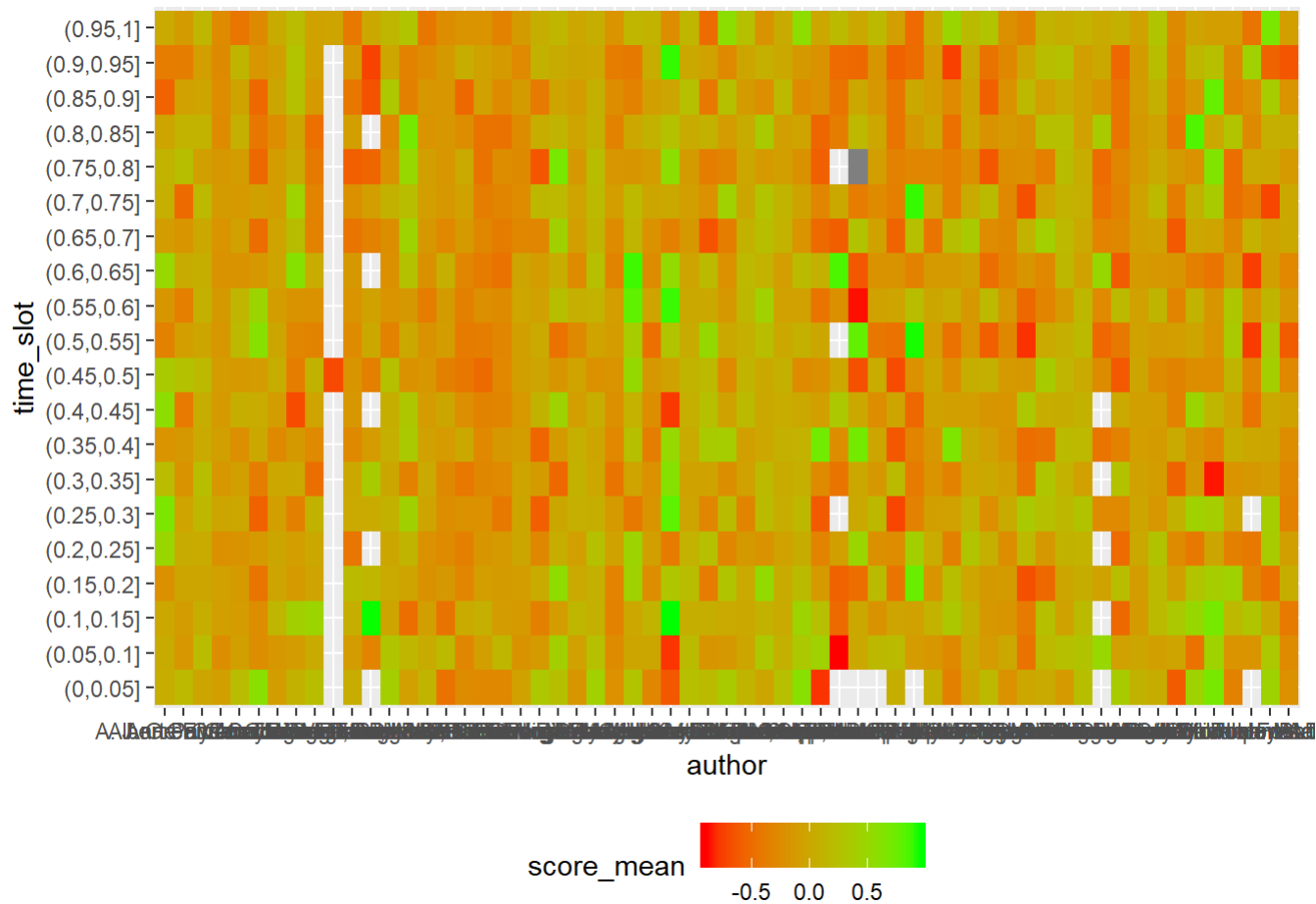


Sentiment Distribution Across Personas



Sentiment changes for Authors across time - Mean





## Sentiment changes for Authors across time

```
sort(unique(text_all$author))
```

```
## [1] ""
## [2] " "
## [3] "A. J. Green Armytage"
## [4] "Albert Payson Terhune"
## [5] "Anne Elizabeth Jenkins"
## [6] "Cameron Rodgers"
## [7] "Cameron Rogers"
## [8] "Clara H. Whitmore"
## [9] "Cochrane, Jeanie"
## [10] "Cochrane, Robert"
## [11] "Cora Miranda Baggerly Older"
## [12] "Creighton, Louise"
## [13] "Daniel Wise"
## [14] "Daniel Wise, D.D."
## [15] "Duncan Aikman"
## [16] "Duncan Aikmen"
## [17] "Edmund B. D'Auvergne"
## [18] "Edmund Basil Francid D'Auvergne"
## [19] "Edmund Basil Francis D'Auvergne"
## [20] "Ethel Colburn Mayne"
## [21] "Ethel Colburne Mayne"
## [22] "Fill in Later"
## [23] "Frances A. Gerard"
## [24] "George Barnett Smith"
## [25] "Hamilton Wright Mabie"
## [26] "Hamilton Wright Mabie, Kate Stephens, eds."
## [27] "Hamilton Wright Mable and Kate Stephens"
## [28] "Hector Lee"
## [29] "Henry Ewart"
## [30] "Henry Thomas"
## [31] "James Parton"
## [32] "Jeanie Douglas Cochrane"
## [33] "Jennie Chappell"
## [34] "John Maw Darton"
## [35] "John Maw Dawton"
## [36] "Johnson, Joseph"
## [37] "Joseph Johnson"
## [38] "Laura Carter Holloway"
## [39] "Louise Creighton"
## [40] "Mabie, Hamilton and Kate Stephenson"
## [41] "Millicent Garrett Fawcett"
## [42] "Millicent Garrett Fawcett and Steuart Beatrice"
## [43] "Mumford, Gertrude Leslie"
## [44] "Myrtle Reed"
## [45] "Philip Walshingham Sergeant"
## [46] "Philip Walsingham Sergeant"
## [47] "Philip Walsingham Sergeant "
## [48] "R.V. Trevel"
## [49] "Robert Cochrane"
## [50] "Rosa Nouchette Carey"
## [51] "Rose Somerville"
## [52] "Sabine Baring-Gould"
## [53] "Unknown"
```

```
## [54] "Warren Dunham Foster"  
## [55] "William Bolitho "  
## [56] "William Henry Davenport Adams"  
## [57] "William Horton Foster"  
## [58] "William Rutherford Hayes Trowbridge"  
## [59] "Willis John Abbot"  
## [60] "Woodman Bradbury"
```

## Sentiment changes for Authors across time

```
## Warning: package 'stringdist' was built under R version 3.5.1
```

## Similar Authors

```
## [[1]]
## [1] " "
##
## $`
## [1] ""
##
## $`Cameron Rodgers`
## [1] "Cameron Rogers"
##
## $`Cameron Rogers`
## [1] "Cameron Rodgers"
##
## $`Cochrane, Jeanie`
## [1] "Cochrane, Robert"
##
## $`Cochrane, Robert`
## [1] "Cochrane, Jeanie"
##
## $`Daniel Wise`
## [1] "Daniel Wise, D.D."
##
## $`Daniel Wise, D.D.`
## [1] "Daniel Wise"
##
## $`Duncan Aikman`
## [1] "Duncan Aikmen"
##
## $`Duncan Aikmen`
## [1] "Duncan Aikman"
##
## $`Edmund Basil Francid D'Auvergne`
## [1] "Edmund Basil Francis D'Auvergne"
##
## $`Edmund Basil Francis D'Auvergne`
## [1] "Edmund Basil Francid D'Auvergne"
##
## $`Ethel Colburn Mayne`
## [1] "Ethel Colburne Mayne"
##
## $`Ethel Colburne Mayne`
## [1] "Ethel Colburn Mayne"
##
## $`Henry Ewart`
## [1] "Henry Thomas"
##
## $`Henry Thomas`
## [1] "Henry Ewart"
##
## $`John Maw Darton`
## [1] "John Maw Dawton"
##
## $`John Maw Dawton`
## [1] "John Maw Darton"
```

```
##  
## `$Philip Walshingham Sergeant`  
## [1] "Philip Walsingham Sergeant" "Philip Walsingham Sergeant "  
##  
## `$Philip Walsingham Sergeant`  
## [1] "Philip Walshingham Sergeant" "Philip Walsingham Sergeant "  
##  
## `$Philip Walsingham Sergeant`  
## [1] "Philip Walshingham Sergeant" "Philip Walsingham Sergeant"
```