

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

R_Sentiment_Analyze.Rmd

Source Visual

```
1
2 {r}
3
4
5
6 # FIRST OF ALL WE INSTALL THAT PACKAGE AND WE CALL SENTIMENT.SENTIMENT DATASET INCLUDE POSITIVE AND NEGATIVE WORD.
7
8
9 install.packages("tidytext")
10
11 library(tidytext)
12
13 sentiments
14
15
16
17
```

tb1_df

6786 x 2

A tibble: 6,786 x 2

word	sentiment
2-faces	negative
abnormal	negative
abolish	negative
abominable	negative
abominably	negative
abominate	negative
abomination	negative
abort	negative
aborted	negative
aborts	negative

1-10 of 6,786 rows

18
19 {r}
20 # BING CLASSIFY WORD AS POSITIVE AND NEGATIVE
21 get_sentiments("bing")
22
23

A tibble: 6,786 x 2

word	sentiment
2-faces	negative

135:1

Chunk 9

R Markdown

Environment History Connections Tutorial

Console Render Jobs

Line 30

Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı
Calls: <Anonymous> ... eval -> eval -> %>% -> unnest_tokens -> is_group
Çalıştırma durduruldu

Output Issues

Files Plots Packages Help Viewer

Install Update

dp

Name	Description	Version
<input checked="" type="checkbox"/> dplyr	A Grammar of Data Manipulation	1.0.9
<input checked="" type="checkbox"/> tidytext	Text Mining using 'dplyr', 'ggplot2', and Other Tidy Tools	0.3.3

RStudio

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R Sentiment_Analyze.Rmd

Go to file/function Addins

Source Visual

2-faces	negative
abnormal	negative
abolish	negative
abominable	negative
abominably	negative
abominate	negative
abomination	negative
abort	negative
aborted	negative
aborts	negative

1-10 of 6,786 rows

Previous 1 2 3 4 5 6 ... 100 Next

18
19
20
21
22
23

```
```{r}
BING CLASSIFY WORD AS POSITIVE AND NEGATIVE
get_sentiments("bing")
```
```

A tibble: 6,786 × 2

| word | sentiment |
|-------------|-----------|
| <chr> | <chr> |
| 2-faces | negative |
| abnormal | negative |
| abolish | negative |
| abominable | negative |
| abominably | negative |
| abominate | negative |
| abomination | negative |
| abort | negative |
| aborted | negative |
| aborts | negative |

1-10 of 6,786 rows

Previous 1 2 3 4 5 6 ... 100 Next

24
25
26
27
28
29
30
31
32
33
34
35
36

```
```{r}
library(janeaustenr)
library(stringr)

FIRST OF ALL WE INCLUDE IMPORT LIBRARIES AND WE TIDY OPERATION WITH PIPING IN TEXT.
WE CONVERT TEXT INTO TO TIDY FORMAT
EACH ROW CONTAIN SINGLE WORD PROVIDE ROW NUMBER FUNCTION.
GROUP BY AUSTEN BOOKS
FINALLY WITH REGULAR EXPRESSION WE STRING MANIPULATION

tidy_data <- austen_books() %>%
```

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Environment History Connections Tutorial

Project: (None)

Console Render Jobs

Line 30

Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı  
Calls: <Anonymous> ... eval -> eval -> %>% -> unnest\_tokens -> is\_group  
Çalıştırma durduruldu

Output Issues

Files Plots Packages Help Viewer

Install Update

Name	Description	Version
<input checked="" type="checkbox"/> dplyr	A	
<input checked="" type="checkbox"/> tidytext	Te	

OneDrive

Ekran görüntüsü kaydedildi  
Ekran görüntüsü OneDrive'nıza eklendi.

R\_Sentiment\_Analyze.Rmd

Source Visual

aborted negative  
aborts negative

1-10 of 6,786 rows Previous 1 2 3 4 5 6 ... 100 Next

```
18
19
20 # BING CLASSIFY WORD AS POSITIVE AND NEGATIVE
21 get_sentiments("bing")
22
23
```

A tibble: 6,786 x 2

word <chr>	sentiment <chr>
2-faces	negative
abnormal	negative
abolish	negative
abominable	negative
abominably	negative
abominate	negative
abomination	negative
abort	negative
aborted	negative
aborts	negative

1-10 of 6,786 rows Previous 1 2 3 4 5 6 ... 100 Next

```
24
25
26 library(janeaustenr)
27 library(stringr)
28
29 # FIRST OF ALL WE INCLUDE IMPORT LIBRARIES AND WE TIDY OPERATION WITH PIPING IN TEXT.
30 # WE CONVERT TEXT INTO TIDY FORMAT
31 # EACH ROW CONTAIN SINGLE WORD PROVIDE ROW NUMBER FUNCTION.
32 # GROUP BY AUSTEN BOOKS
33 # FINALLY WITH REGULAR EXPRESSION WE STRING MANIPULATION
34
35 tidy_data <- austen_books() %>%
36 group_by(book) %>%
37 mutate(linenum=row_number(),
38 chapter=
39 cumsum(str_detect(text,
40 regex("Achapter: [\\divx1c]",
41
42 ignore_case = TRUE)))) %>%
43 ungroup() %>%
44 unnest_tokens(word,text)
45
46
47
```

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Console Render Jobs

Line 30 Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı  
Calls: <Anonymous> ... eval -> eval -> %>% -> unnest\_tokens -> is\_group  
Çalıştırma durduruldu

Files Plots Packages Help Viewer

dp

Name	Description	Version
<input checked="" type="checkbox"/> dplyr	A	
<input checked="" type="checkbox"/> tidytext	Te	

OneDrive

Ekran görüntüsü kaydedildi  
Ekran görüntüsü OneDrive'ınıza eklendi.

```
46
47 ```{r}
48
49 # FIRST OF ALL WE CALL WORD BING.BING CLASSIFY TEXT AS POSITIVE AND NEGATIVE
50 # AFTER THAT WE JUST TAKE POSITIVE WORD IN TEXT
51 # WE CHOOSE EMMA BOOK AND WE SORT POSITIVE WORD IN EMMA BOOKS
52
53 positive_senti <- get_sentiments("bing") %>%
54 filter(sentiment=="positive")
55
56 tidy_data %>%
57 filter(book=="Emma") %>%
58 semi_join(positive_senti) %>%
59 count(word,sort=TRUE)
60
61
62 ```
```



A tibble: 668 × 2

word <chr>	n <int>
well	401
good	359
great	264
like	200
better	173
enough	129
happy	125
love	117
pleasure	115
right	92

1-10 of 668 rows

Previous 1 2 3 4 5 6 ... 67 Next

```
63
64 ```{r}
65
66 # FIRST OF ALL SPREAD FUNC PROVIDE EXIT TWO UNIQUE COLUMNS AND THAT OPERATE LIKE GROUP BY THINKING
67 # SHORTLY, WE CALCULATE TOTAL SENTIMENT AND THE GROUP BY POSITIVE AND NEGATIVE AND SHOW 2 UNIQUE COLUMNS
68
69
70 library(tidyr)
71 bing <- get_sentiments("bing")
72 Emma_sentiments <- tidy_data %>%
73 inner_join(bing) %>%
74 count(book="Emma", index=linenumber %/% 80, sentiment) %>%
75 -----
```

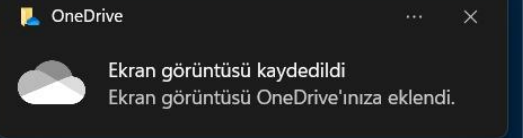
135:1 Chunk 9

R Markdown

Environment History Connections Tutorial

```
.../Masaüstü/DASDSAD.Rmd
x Line 30 Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı
Calls: <Anonymous> ... eval -> eval -> %>% -> unnest_tokens -> is_group
Çalıştırma durduruldu
```

Name	Description	Version
<input checked="" type="checkbox"/> dplyr	A	
<input checked="" type="checkbox"/> tidytext	Te	



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

R\_Sentiment\_Analyze.Rmd

Source

Visual

115  
92

1-10 of 668 rows

Previous 1 2 3 4 5 6 ... 67 Next

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

```{r}

FIRST OF ALL SPREAD FUNC PROVIDE EXIT TWO UNIQUE COLUMNS AND THAT OPERATE LIKE GROUP BY THINKING

#SHORTLY,WE CALCULATE TOTAL SENTIMENT AND THE GROUP BY POSITIVE AND NEGATIVE AND SHOW 2 UNIQIE COLUMNS

library(tidyr)

bing <- get_sentiments("bing")

Emma_sentients <- tidy_data %>%

inner_join(bing) %>%

count(book="Emma",index=linenumber %/% 80,sentiment) %>%

spread(sentiment,n,fill=0) %>%

mutate(sentiment=positive-negative)

```

Joining, by = "word"

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

```{r}

#WE VISUALIZE WORD IN EMMA WITH POSITIVE AND NEGATIVE SCORES

library(ggplot2)

ggplot(Emma_sentients,aes(index,sentiment,fill=book))+

geom_bar(stat="identity",show.legend = TRUE)+

facet_wrap(~book,ncol=2,scales="free_x")

```

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Chunk 9

R Markdown

Environment

History

Connections

Tutorial

Console

Render

Jobs

Project: (None)

Line 30

Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı

Calls: <Anonymous> ... eval -> eval -> %>% -> unnest\_tokens -> is\_group

Çalıştırma durduruldu

Files

Plots

Packages

Help

Viewer

Install

Update

dp

Name

Description

Version

☒

dplyr

A

☒

tidytext

Te

OneDrive

Ekran görüntüsü kaydedildi

Ekran görüntüsü OneDrive'ınıza eklendi.

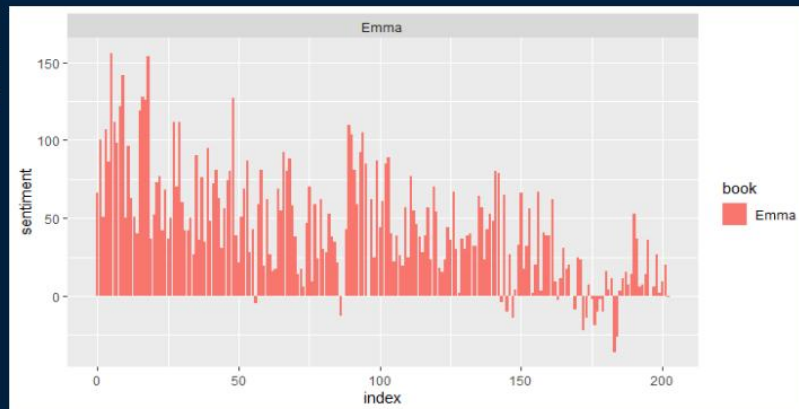


```
73 inner_join(bing) %>%
74 count(book="Emma",index=linenumber %/% 80,sentiment) %>%
75 spread(sentiment,n,fill=0) %>%
76 mutate(sentiment=positive-negative)
77
78 ---
```

joining, by = "word"

```
79
80 ---{r}
81 #WE VISUALIZE WORD IN EMMA WITH POSITIVE AND NEGATIVE SCORES
82
83 library(ggplot2)
84
85 ggplot(Emma_sentiments,aes(index,sentiment,fill=book))+
86 geom_bar(stat="identity",show.legend = TRUE)+
87 facet_wrap(~book,ncol=2,scales="free_x")
88
89
90
91
92
93
94
95
96
97 ---
```

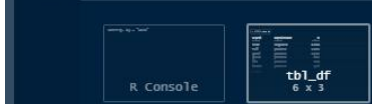
RStudio: Notebook Output



```
.../Masaüstü/DASDSAD.Rmd
Line 30 Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı
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Çalıştırma durduruldu
```

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<input checked="" type="checkbox"/> tidytext	Text Mining using 'dplyr', 'ggplot2', and Other Tidy Tools	0.3.3	

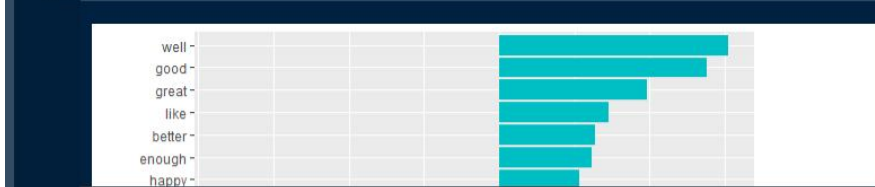
```
98
99
100 # MOST COMMON WORD THAT USE EMMA BOOK WE SORT THAT
101 # WE CALL 5 ROW WITH HEAD_FUNC
102 counting_words <- tidy_data %>%
103 inner_join(bing) %>%
104 count(word,sentiment,sort=TRUE)
105 head(counting_words)
106
107
```



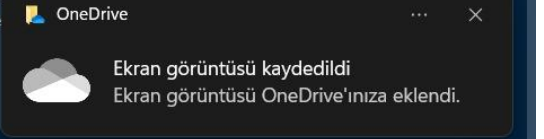
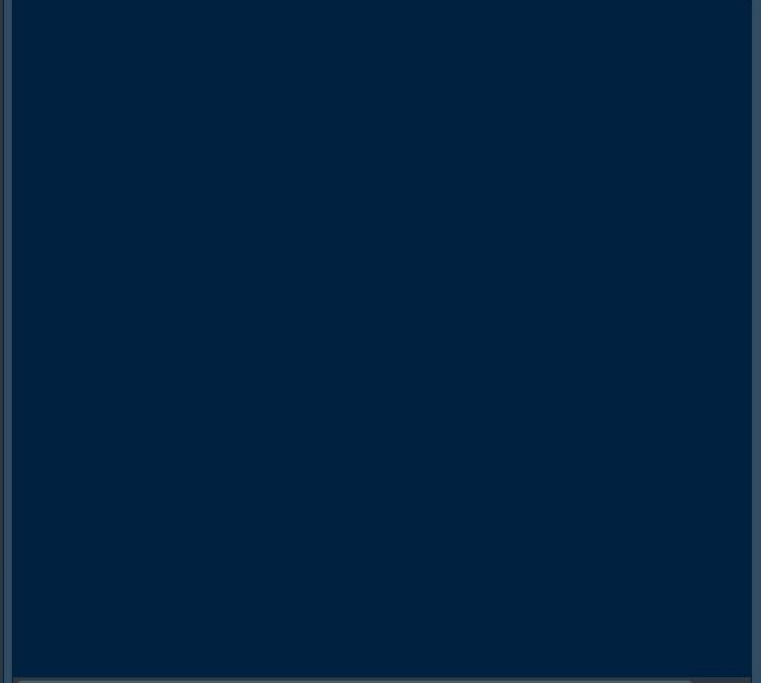
word	sentiment	n
miss	negative	1855
well	positive	1523
good	positive	1380
great	positive	981
like	positive	725
better	positive	639

6 rows

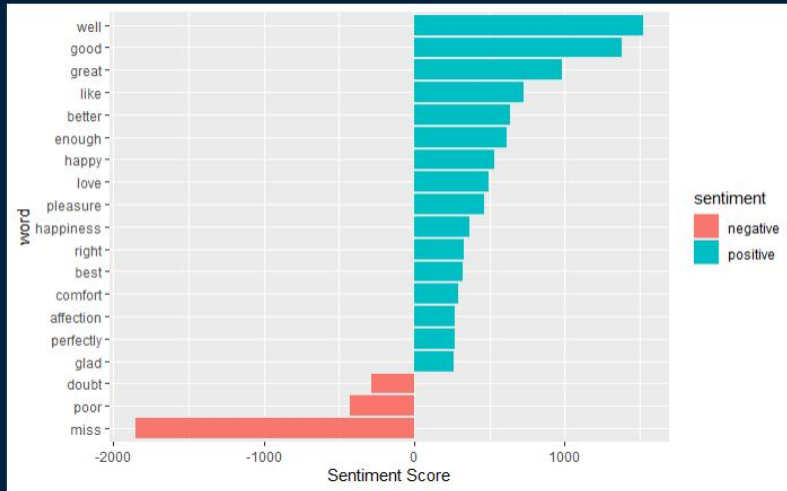
```
108
109
110 #WE VISUALIZE THE SENTIMENT IN EMMA BOOK AS POSITIVE AND NEGATIVE SCORE
111
112 counting_words %>%
113 filter(n>250) %>%
114 mutate(n=ifelse(sentiment=="negative",-n,n)) %>%
115 mutate(word=reorder(word,n))%>%
116 ggplot(aes(word,n,fill=sentiment))+
117 geom_col()+
118 coord_flip()+
119 labs(y="Sentiment Score")
120
```



```
.../Masaüstü/DASDSAD.Rmd
Line 30 Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı
Calls: <Anonymous> ... eval -> eval -> %>% -> unnest_tokens -> is_group
Çalıştırma durduruldu
```



```
108 ```{r}
109 #WE VISUALIZE THE SENTIMENT IN EMMA BOOK AS POSITIVE AND NEGATIVE SCORE
110
111
112 counting_words %>%
113 filter(n>250) %>%
114 mutate(n=ifelse(sentiment=="negative",-n,n)) %>%
115 mutate(word=reorder(word,n))%>%
116 ggplot(aes(word,n,fill=sentiment))+
117 geom_col()+
118 coord_flip()+
119 labs(y="Sentiment Score")
120 ```
```



```
121 ```{r}
122 #WE PLOT NEGATIVE AND POSITIVE WORD.
123 #AS TEST SCORE INCREASE, TEXT SHOW MORE BIGGER THAN OTHER
124
125
126 library(reshape2)
127 library(wordcloud)
128 tidy_data %>%
129 inner_join(hinn) %>%
130 ...
131
```

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R Markdown

Environment History Connections Tutorial

```
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Line 30 Error in ungroup(.) : "ungroup" fonksiyonu bulunamadı
Calls: <Anonymous> ... eval -> eval -> %>% -> unnest_tokens -> is_group
Çalıştırma durduruldu
```

Install Update		dp	
Name	Description	Version	
<input checked="" type="checkbox"/> dplyr	A		
<input checked="" type="checkbox"/> tidytext	Te		



Ekran görüntüsü kaydedildi  
Ekran görüntüsü OneDrive'nıza eklendi.



