Parlor trick or worthwhile?

SENTIMENT ANALYSIS IN R



Ted Kwartler Data Dude



Interesting visuals

Good Visuals

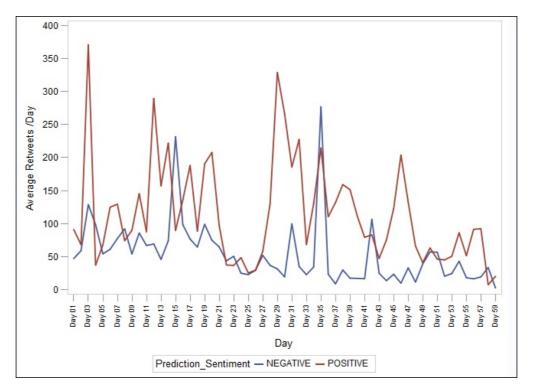
- Simple to interpret
- Confirm or elucidate data
 aspects
- Context for the audience
- Appropriate type e.g. line charts for time, bars for amounts

Bonus:

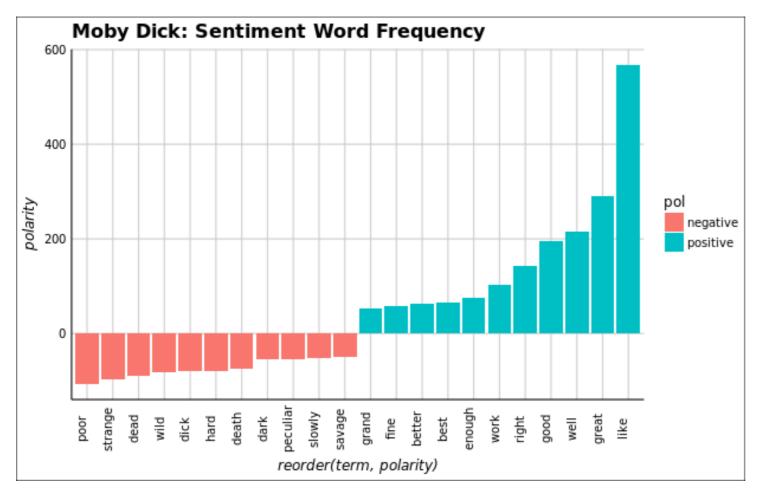
• Avoid word clouds

Tracking sentiment over time

Sentiment timeline - a way of displaying sentiment values in chronological order. It is typically a graphic design showing time periods, such as months, as the X axis and the sentiment values as Y axis values either as a line or series of bars.



Simple frequency analysis



ggplot2 is a popular library based on the "grammar of graphics" for constructing visuals in R.

R datacamp

Let's practice!



Introspection using sentiment analysis

SENTIMENT ANALYSIS IN R

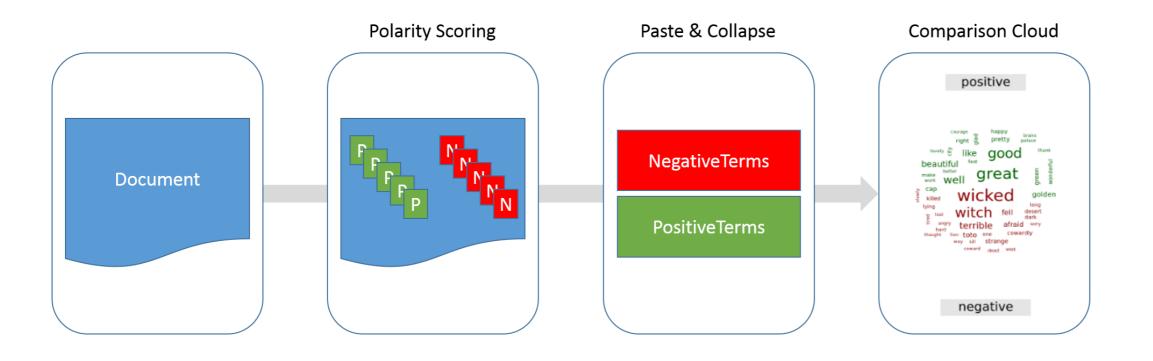


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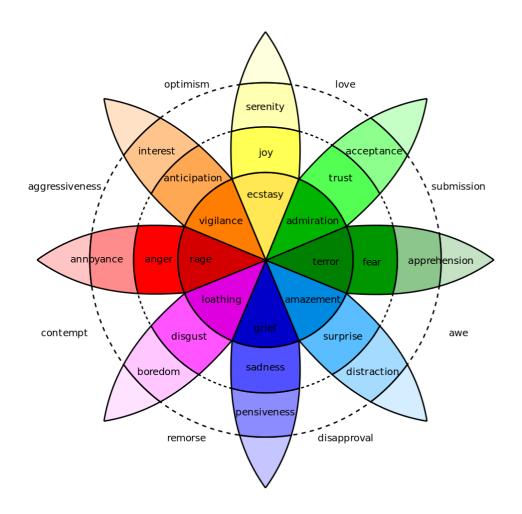
qdap's polarity for subsetting corpora

library(qdap)
polarity(text.var, grouping.var = NULL)



R datacamp

Comparing frequent words in Plutchik's Framework





tacamp



Where's Waldo? Where isn't Waldo?

x <- c("Nicole", "Nick", "Waldo")
grep("Waldo", x)</pre>

[1] 3

grepl("Waldo", x)

[1] FALSE FALSE TRUE

!grepl("Waldo", x)

[1] TRUE TRUE FALSE



Adding an "or" operator

x <- c("Nicole", "Nick", "Waldo")
grepl("Waldo|Nicole", x)</pre>

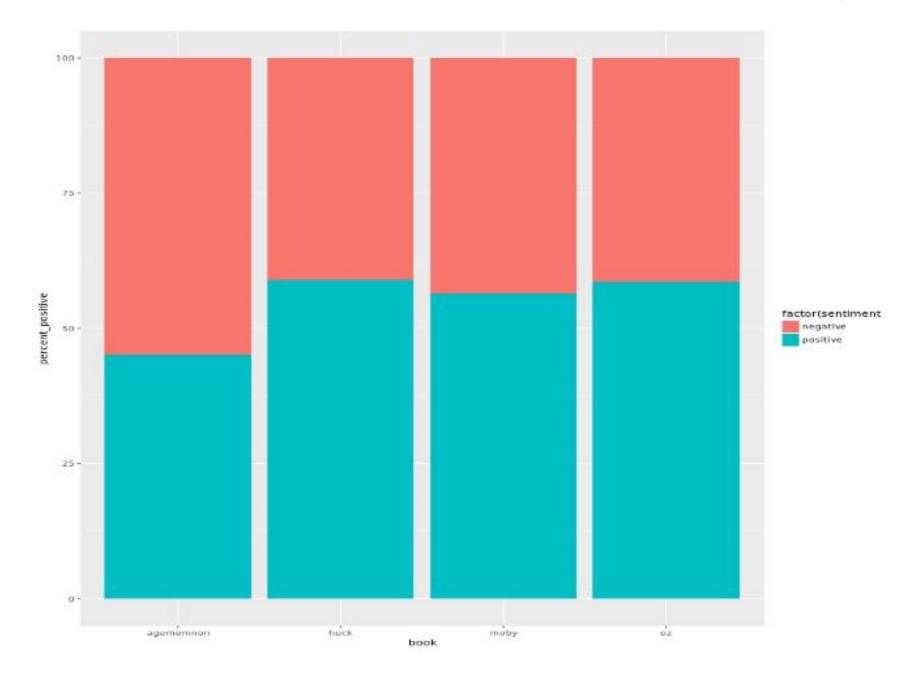
[1] TRUE FALSE TRUE

!grepl("Waldo|Nicole", x)

[1] FALSE TRUE FALSE



Stacked comparisons for polarity mixture



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Let's practice!



Interpreting a kernel density, box plots & radar charts

SENTIMENT ANALYSIS IN R



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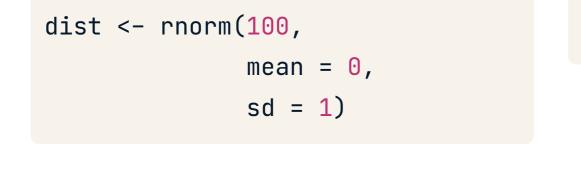


More visualizations

- Kernel density plot
- Box plot
- Radar chart
- Treemap

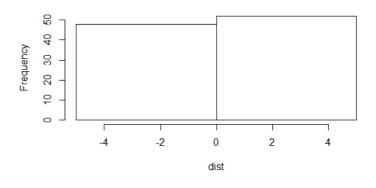


Kernel density plots vs histogram



hist(dist, breaks = 1)

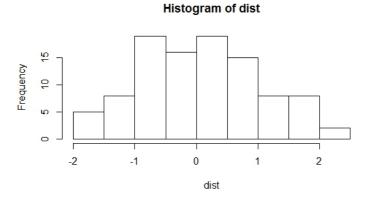
Histogram of dist

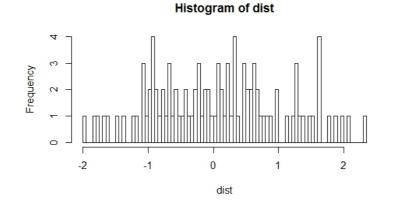


hist(dist, breaks = 10)

tacamp

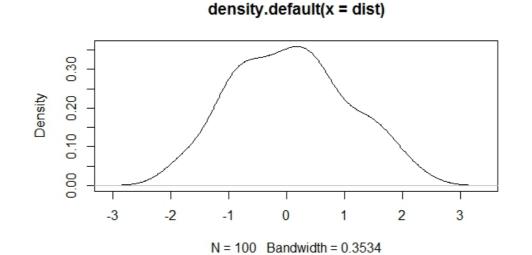
hist(dist, breaks = 100)

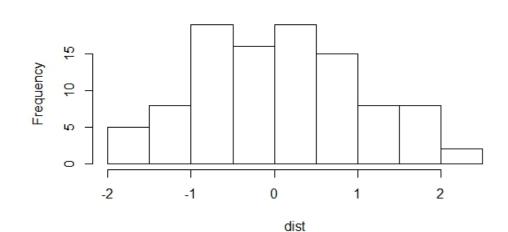




Kernel density plots vs histogram

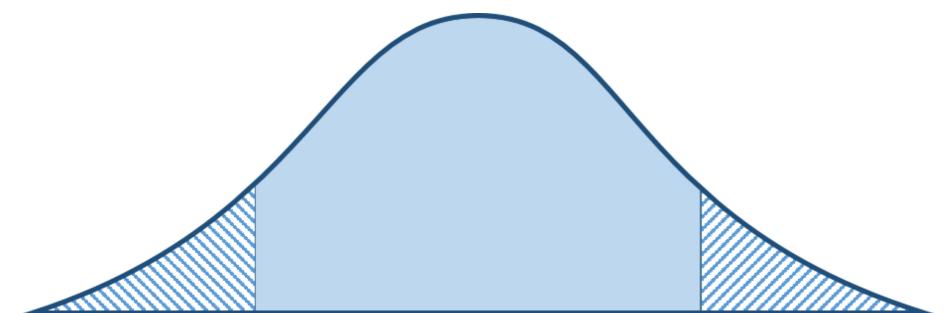
d_curve <- density(dist)
plot(d_curve)</pre>

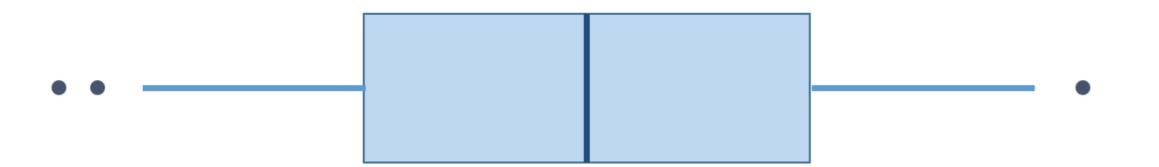




Histogram of dist

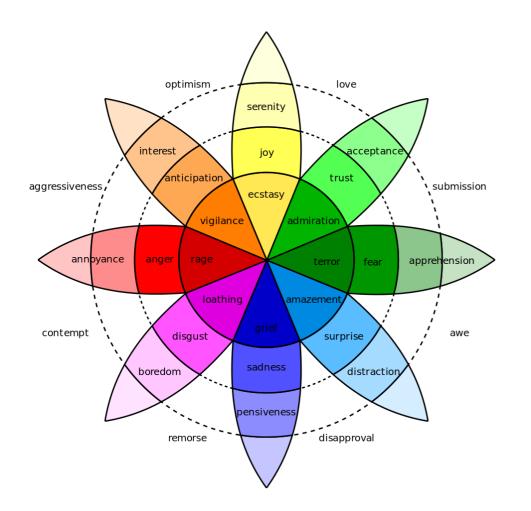


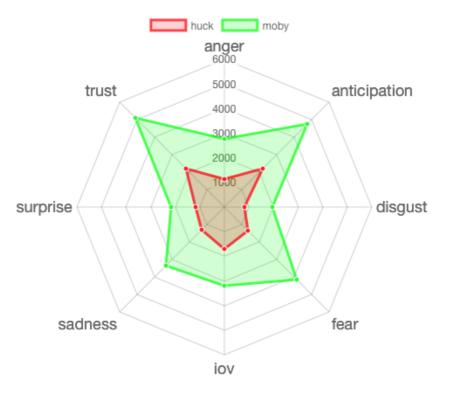






Radar Wheel of Emotion





R datacamp



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Social Media Mentions of X

10 -5 0 5 10 polarity

- Each block represents a data point like a row
- Each block's size is dictated by another data dimension
- Each block is colored according to another data dimension
- Blocks are arranged into like groups using another data dimension

Let's practice!

