





Riset Pasar melalui Data Media Sosial

JAN 2020

DIGITAL AROUND THE WORLD IN 2020

THE ESSENTIAL HEADLINE DATA YOU NEED TO UNDERSTAND MOBILE, INTERNET, AND SOCIAL MEDIA USE

TOTAL POPULATION



UNIQUE MOBILE PHONE USERS



INTERNET USERS



ACTIVE SOCIAL MEDIA USERS



7.75 BILLION

URBANISATION:

55%

5.19 BILLION

PENETRATION:

67%

4.54

PENETRATION:

59%

3.80

PENETRATION:

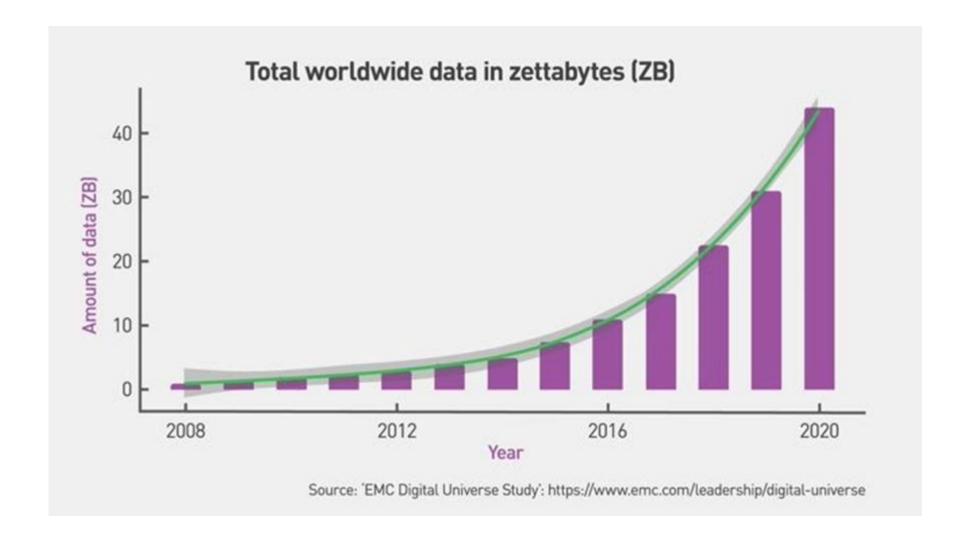
49%



SOURCES: POPULATION: UNITED NATIONS; LOCAL GOVERNMENT BODIES; MOBILE: GSMA INTELLIGENCE; INTERNET: ITU; GLOBALWEBINDEX; GSMA INTELLIGENCE, LOCAL TELECOMS REGULATORY AUTHORITIES AND GOVERNMENT BODIES; APIII; KEPIOS ANALYSIS; SOCIAL MEDIA: PLATFORMS' SELF-SERVICE ADVERTISING TOOLS; COMPANY ANNOUNCEMENTS AND EARNINGS REPORTS; CAFEBAZAAR; KEPIOS ANALYSIS. ALL LATEST AVAILABLE DATA IN JANUARY 2020. © COMPARABILITY ADVISORY: SOURCE AND BASE CHANGES.

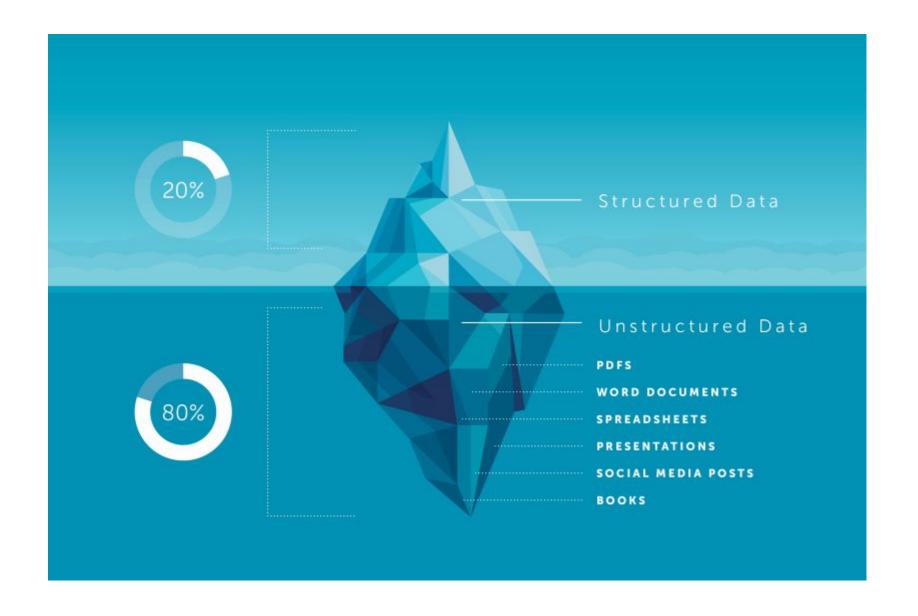




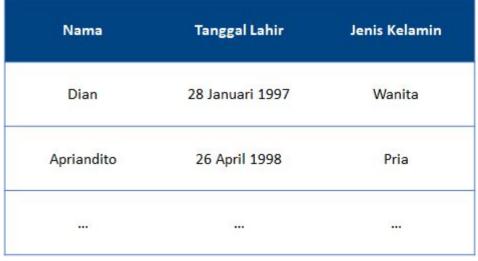


Produksi Data





Data Terstruktur dan Tidak





User Behaviour Analytics



Foursquare Pulse



https://foursquare.com/infographics/pulse

Tweet Terkait Trump

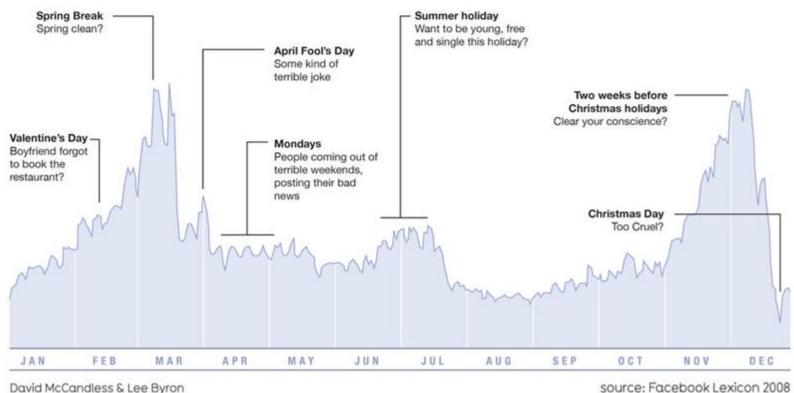


Sumber: https://www.techrepublic.com/article/a-data-visualization-of-trump-trends-on-social-media/

Pattern Apa ini?



Peak Break-up Times According to Facebook status updates



David McCandless & Lee Byron InformationIsBeautiful.net / LeeByron.com

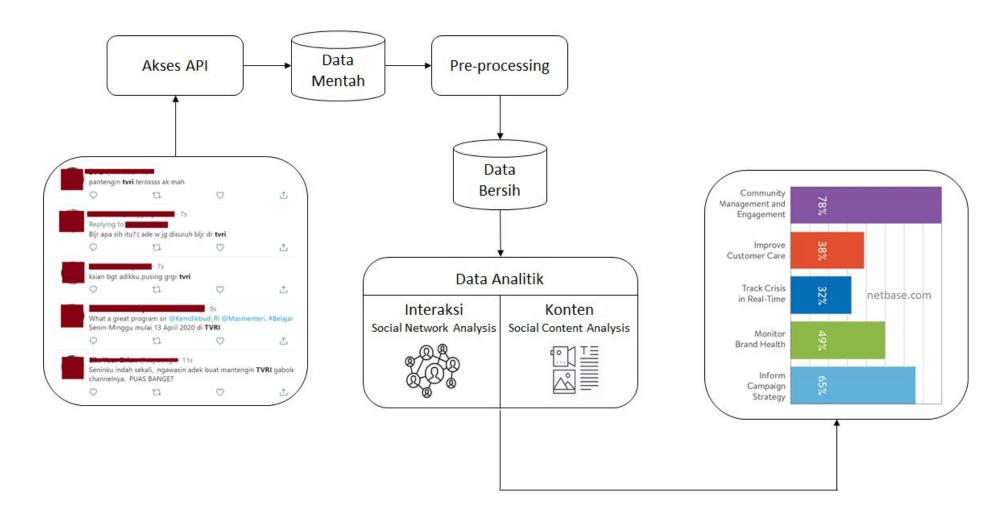
Social Media Analytics

Social Media Analytics (SMA) refers to the approach of collecting data from social media sites and blogs and evaluating that data to make business decisions.

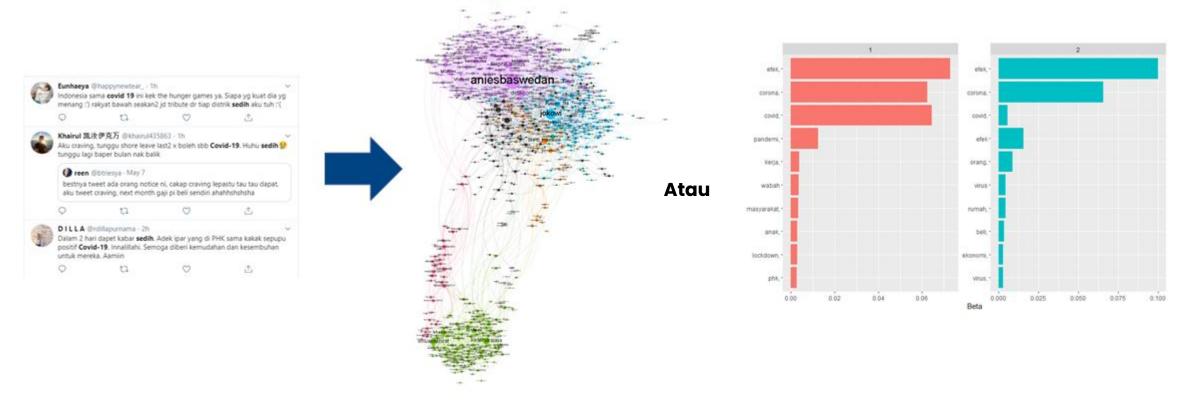
Sumber: Wikipedia



Framework



Social Media Analytics

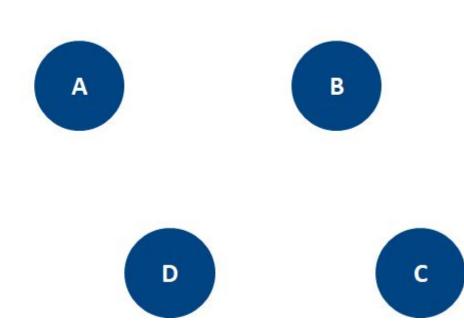


Social Network Analysis

- Sangat baik dalam mendeskripsikan interaksi kompleks
- Menjelaskan interkoneksi di antara entitas entitas yang terlibat
- Terdiri atas:
 - Nodes yang merepresentasikan pelaku (manusia, organisasi, dll)
 - Edges yang merepresentasikan aliran interaksi diantara pelaku

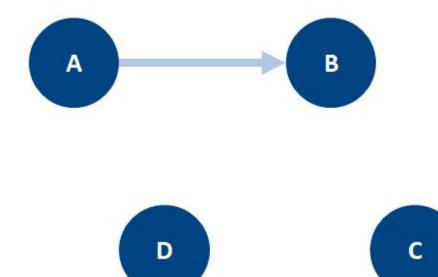








Arya : Bella, coba tanya Cristo dan Desi, mereka sudah tahu pencegahan covid-19?



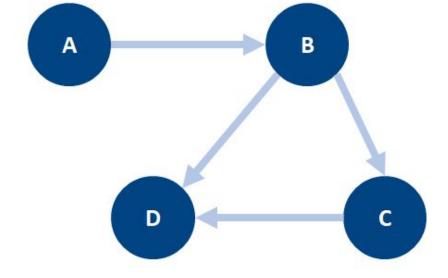


Arya : Bella, coba tanya Cristo dan Desi, mereka sudah tahu pencegahan covid-19?

Bella : Cristo, kamu udah tau belum kalau covid-19 bisa dicegah?

Bella : Kalau Desi udah tau?

Cristo: Desi, covid-19 dicegah pakai social distancing dan cuci tangan

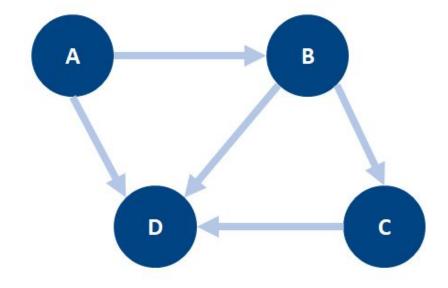


List

Node	Node	
A	В	
Α	D	
В	D	
В	С	
С	D	

Matrix

Vertex	A	В	С	D
А	15-1	1	0	1
В	0	77 - 7	1	1
С	0	0	-	1
D	0	0	0	12

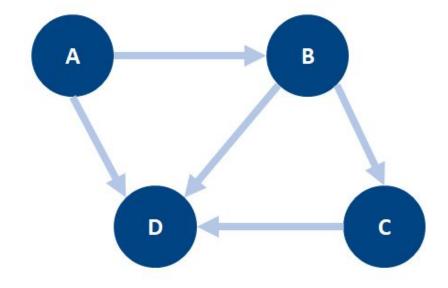


List

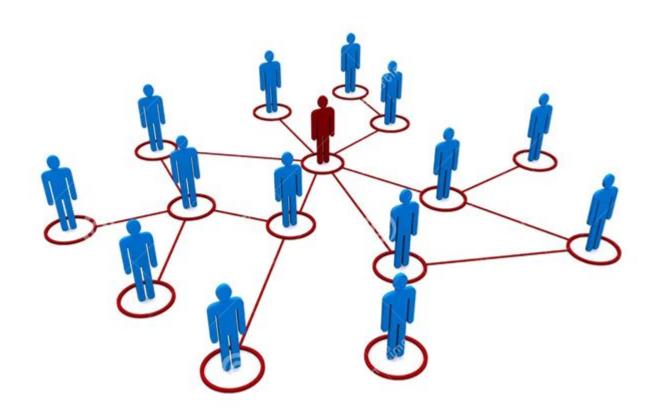
Node	Node	
A	В	
Α	D	
В	D	
В	С	
С	D	

Matrix

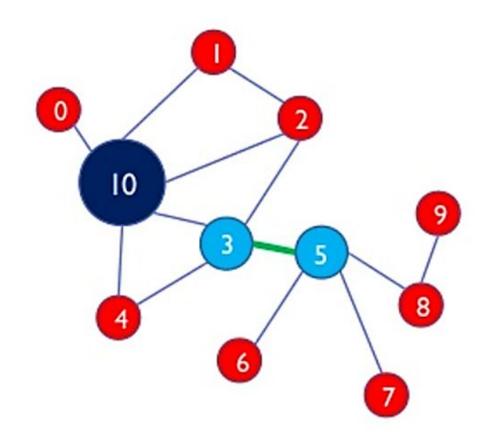
Vertex	A	В	С	D
А	15-1	1	0	1
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D	0	0	0	12



Identifikasi Key Player



Siapa yang paling penting?



Centrality Metric

Degree Centrality

Betweenness Centrality

Closeness Centrality

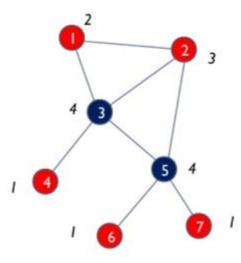
Eigenvector Centrality

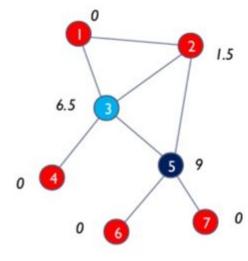
How many people can this person **reach directly**?

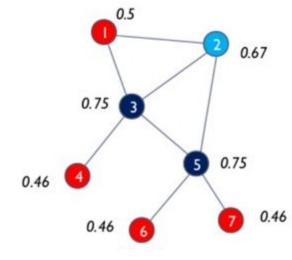
How likely to be the **most** direct route?

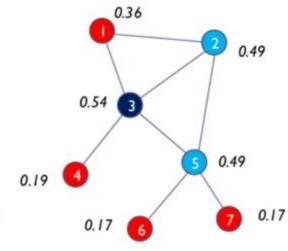
How fast to reach everyone?

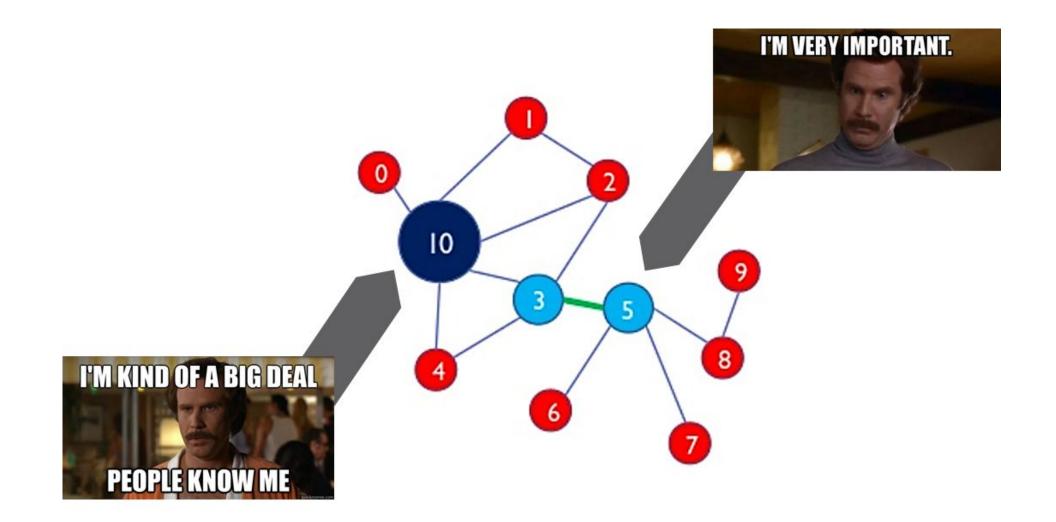
How well connected to other well-connected?





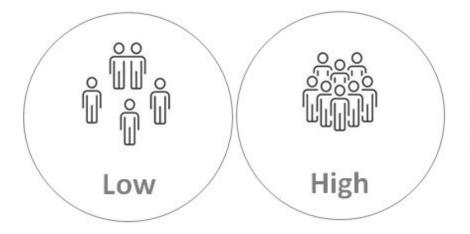




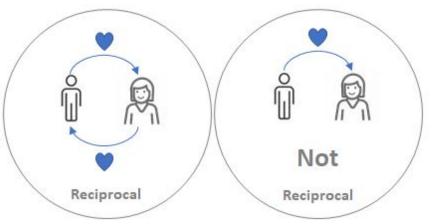


Karakteristik Jejaring Sosial

Density



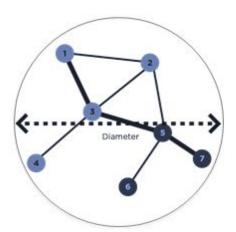
Reciprocity



Ratio of the number of relations in the network over the total number of possible relations

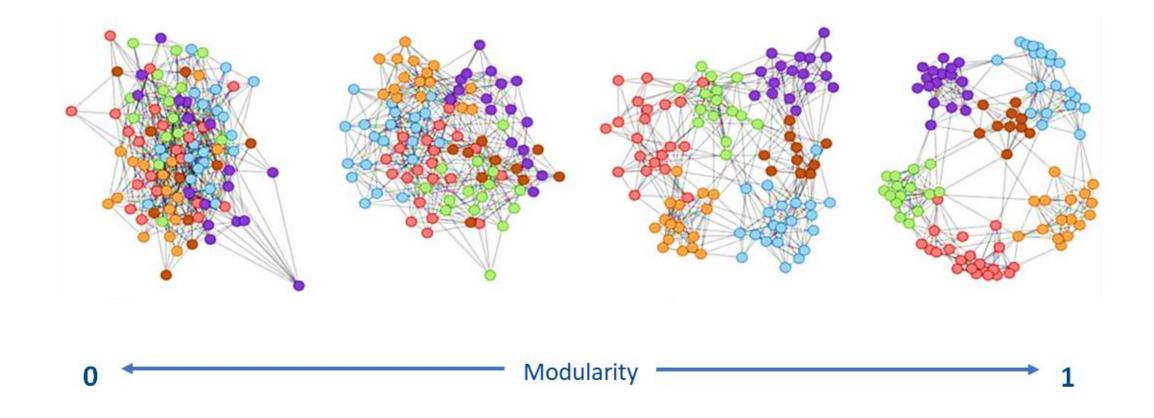
The ratio of the number of reciprocated relations over the total number of relations

Diameter



The longest distance between any two nodes in a network

Pembentukan Komunitas





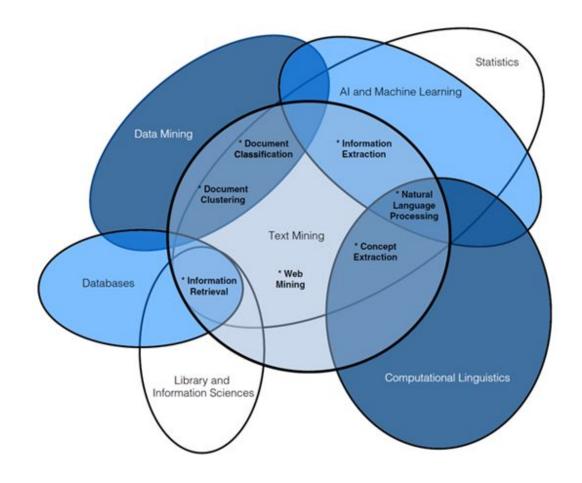




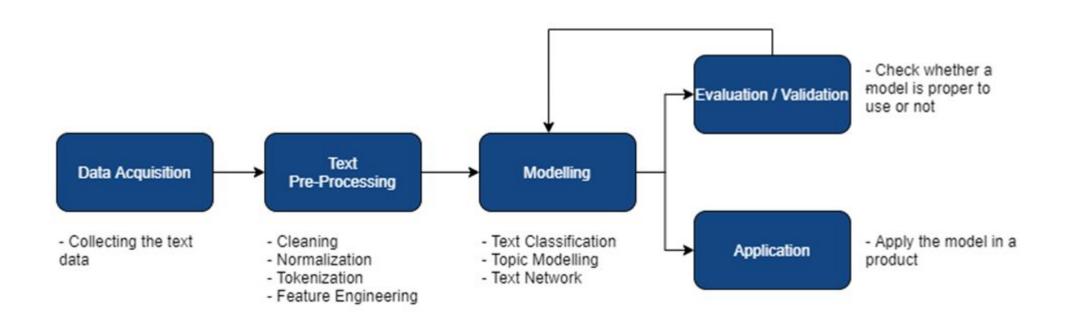
PRAKTEK

Analisis Konten: Text Mining

- Text Mining is the process of deriving meaningful high-quality information from natural text.
- Natural Language Processing(NLP) is a part of computer science and artificial intelligence which deals with human languages. NLP is a component of text mining that performs a special kind of linguistic analysis that essentially helps a machine "read" text.



Proses Text Mining



Text Classification

- Text Classification atau klasifikasi text merupakan proses mengkategorikan dokumen atau kalimat dalam sebuah label kelas tertentu.
- Contoh penerapan Text classification yang umum digunakan adalah Sentiment Analysis.



Ini dari tadi naik grab, abangnya wangi2 dan ramah ramah,

Bagus nih pelayanan grab di solo 👌 🙏 @GrabID



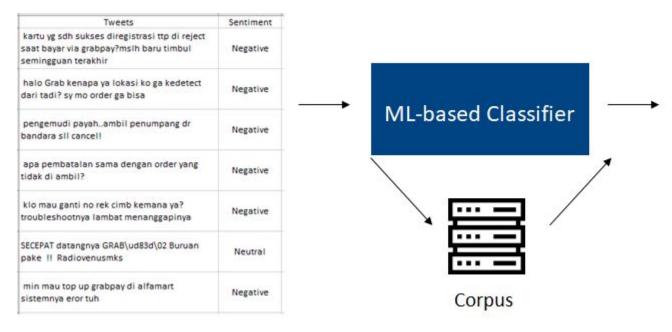






1.28 PM · 17 Okt 2018 · Twitter for Android

Sentiment Analysis



Tweets	Sentiment	Predicted Sentiment
tidak bisa dipakai sama sekali saldonya. Mohon di kroscek ya		Negative
aplikasi grab kok gbsa ya? Keluar sendiri pas d klik		Negative
halo kenapa applikasi grab saya selalu ketutup sendiri stih order grabfood ya? Saya jd tdk bisa hub drivernva		Negative
I can't access Grabchat. May I know why?		Negative
kalo pesen grabfoodkdg di app opentp aslinya close. driver nya suka kayak bete gt ditelfon seolah olah kt vg salah va haha		Negative
halo dari kemarin kalo jam segini mau pesen grab selalu \failed to contact the Grab server\ padahal kalo pagi ga ada masalah		Negative

Sentiment Analysis





Bisnis trip

"Hotel dengan kamar yang sangat nyaman, breakfast lengkap dan enak. Disediakan meja kerja cocok untuk yang bisnis trip,next trip akan ajak teman dan keluarga menginap kesini lagi jika berkunjung ke bali."

Selengkapnya .

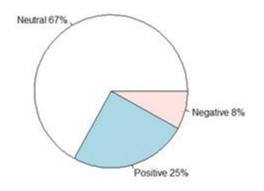
•0000

Lebih dari harga dengan Pelayanan Terburuk

"Saya menjalankan perusahaan yang berinvestasi dalam keadilan pribadi hotel, resor dan properti, yang memberi saya banyak pengalaman ribuan hotel yang berbeda di seluruh dunia. Tapi aku menyesal untuk mengatakan bahwa Katamama disajikan saya dengan pengalaman terburuk di akomodasi dengan harga tertinggi yang pernah saya alami dalam tahun. Saya menginap di suite di atap untuk melihat dan meningkatkan kemampuan mereka di atas layanan dan fasilitas. Saya dapat mengatakan saya pengalaman terburuk di bawah tiga hat: 1. Fasilitas Berbahaya 2. Lingkungan yang keras 3. Pelayanan Tidak Profesional Pertama, fasilitas sangat modern yang terlihat sedang dibangun oleh grup F & menjadi populer di Potato Head. Namun ketika Anda melihat mereka secara detail, Anda akan

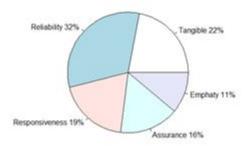
Selengkapnya

Sentiment Analysisis



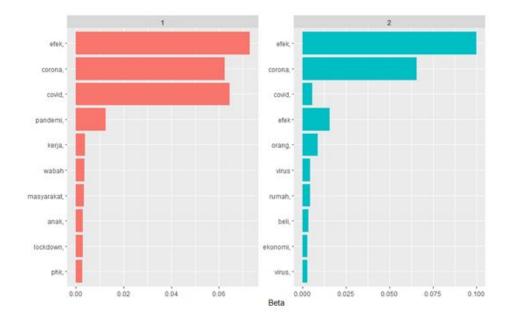


Service Quality Dimention - Negative

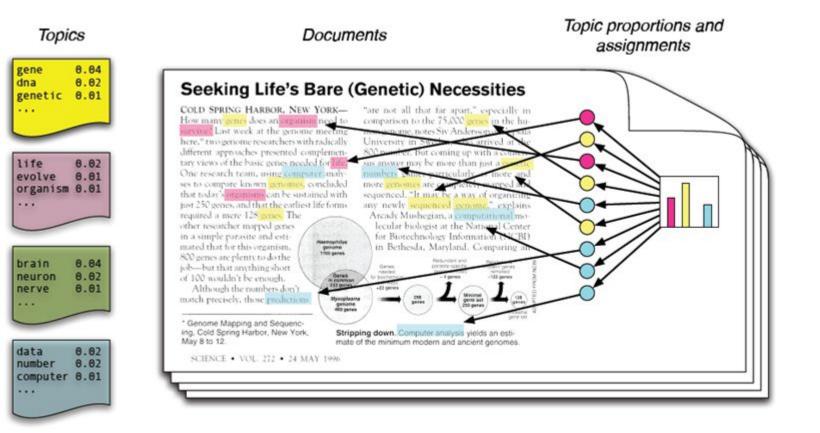


Topik Modelling

- Topic model merupakan salah satu metode statistic untuk mengekstraksi topik dari sebuah/kumpulan dokumen.
- Asumsi dalam Topic Modelling:
 - Setiap dokumen merupakan kumpulan topik
 - Setiap topik merupakan kumpulan kata.
- Teknik Popular:
 - Latent Semantic Analysis (LSA)
 - Probabilistic Latent Semantic Analysis (PLSA)
 - Latent Dirichlet Allocation (LDA)
 - Lda2vec



Latent Dirichlet Allocation









PRAKTEK

That's All For Today

"Every **ending** is a **new beginning**"

- Marianne Williamson-