

Cholera, Shakespeare and pie charts. Have you cracked your data visualisation yet?

Amy O' Baker



Ben. A. Shneiderman

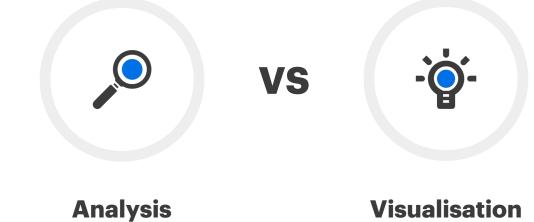


"The purpose of visualisation is insight, not pictures"

Relative Insight, Fraser House, White Cross Business Park, Lancaster. LA1 4XQ



Can you separate the two?





Tableau

Salesforce acquires Tableau Software in \$15.7 billion deal

Salesforce is ramping up its analytics and digital transformation game with the massive purchase.

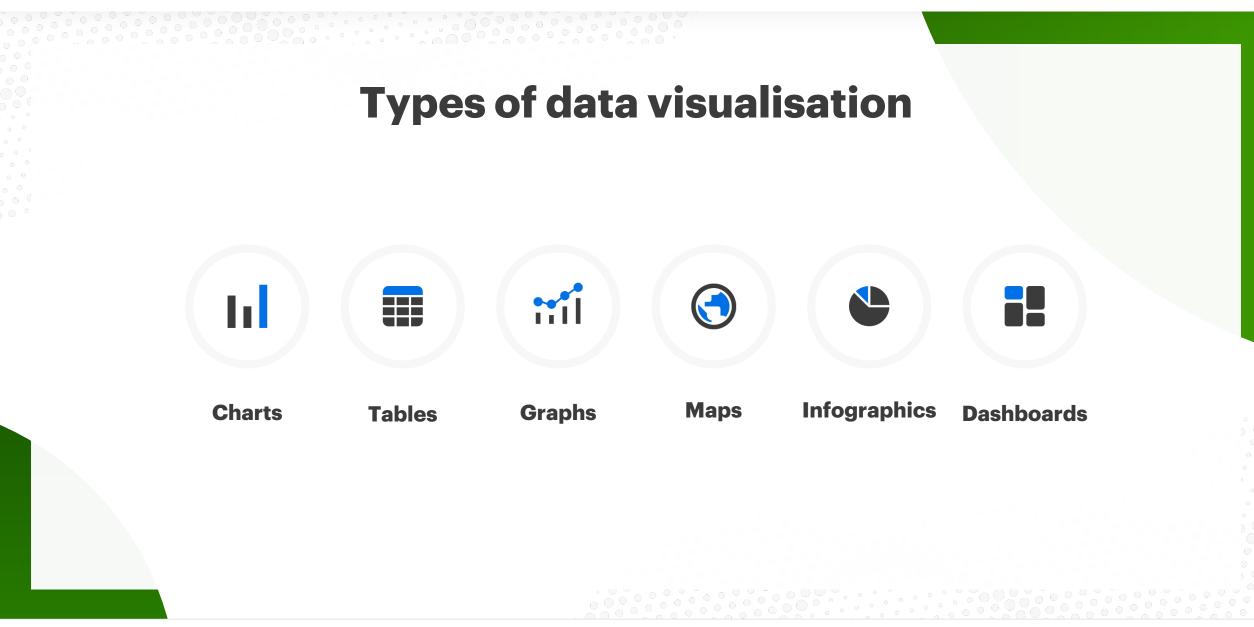


Written by Charlie Osborne, Contributor on June 10, 2019

What is data visualisation?

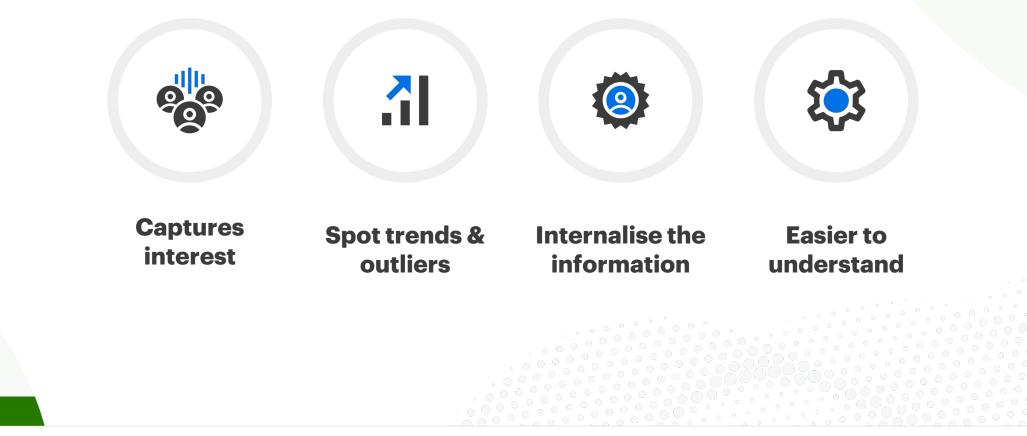
"It's the graphical representation of information and data. By using visual elements like charts, graphs and maps, data visualisation tools provide an accessible way to see and understand trends, outliers and patterns in data."





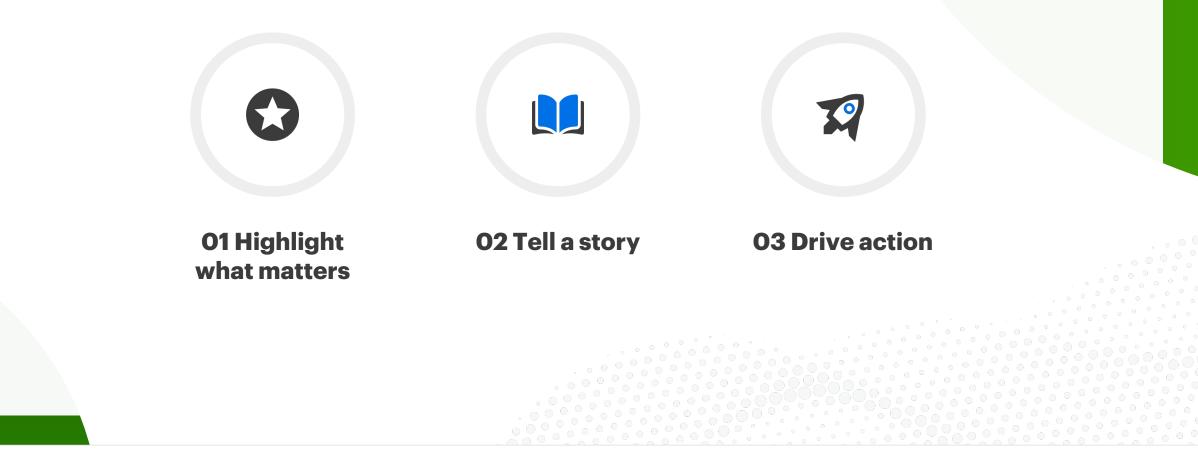


Why use data visualisation?





What makes a good data visualisation?

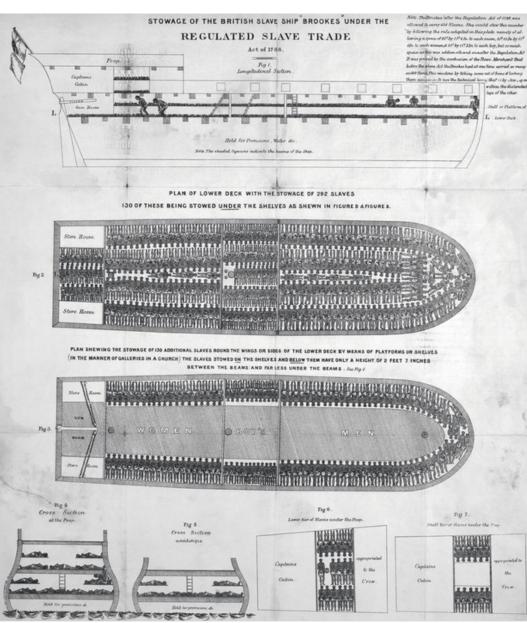






O1 Highlight what matters





James Philips

1787



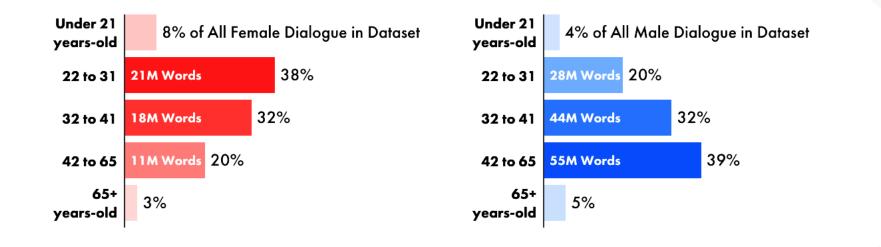


O2 Tell a story



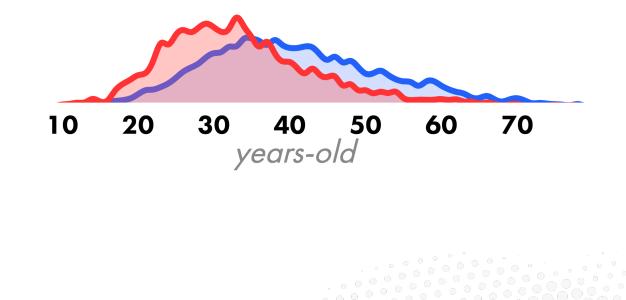
Percent of dialogue by actors' age

Source: The Pudding





Percent of dialogue by actors' age

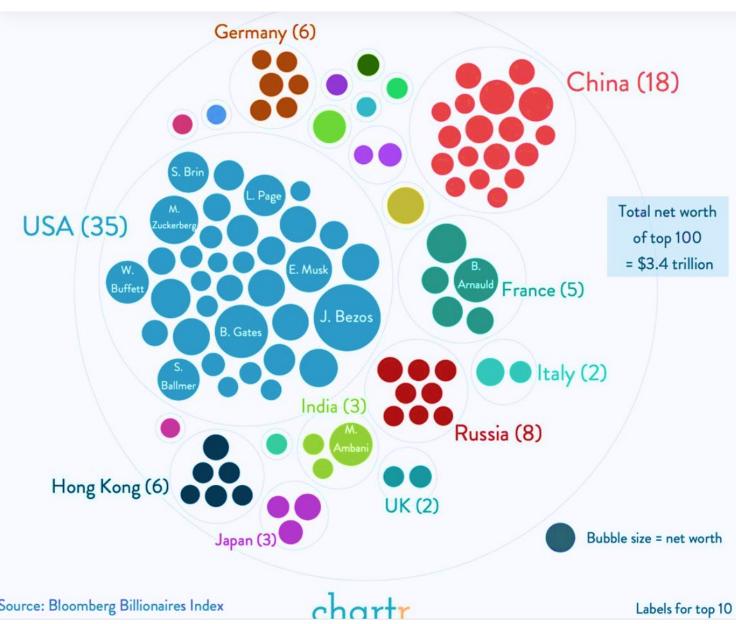




Why use data visualisation?







The 100 wealthiest people on earth

By country

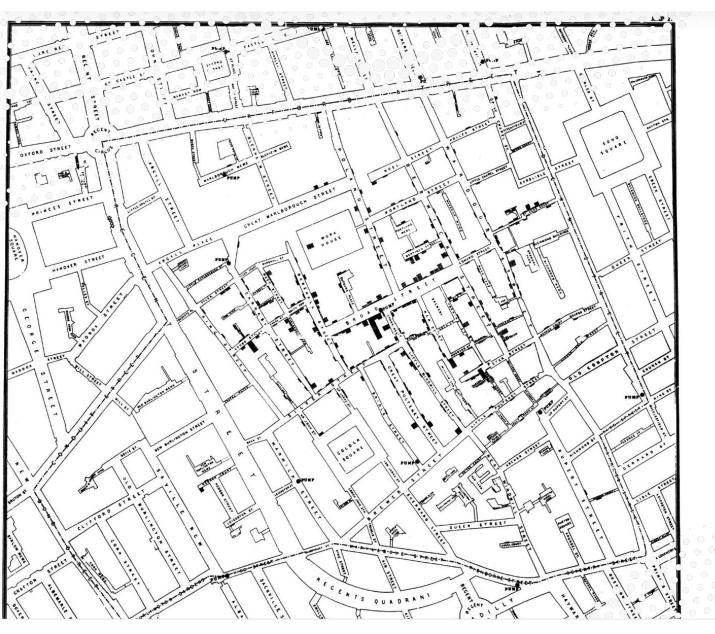
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03 Drive action



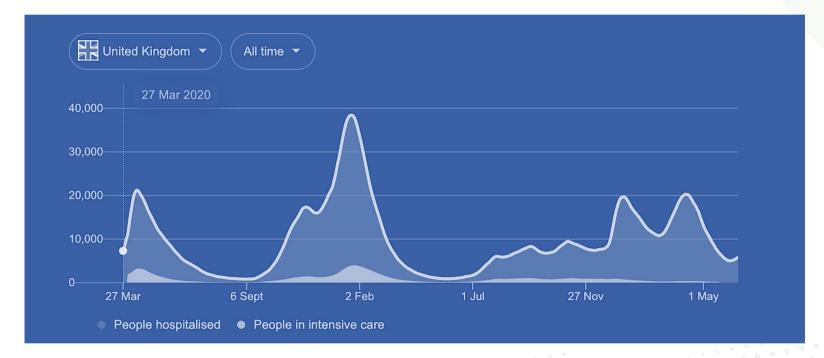


The London Cholera Outbreak

1854



Hospitalisations over time

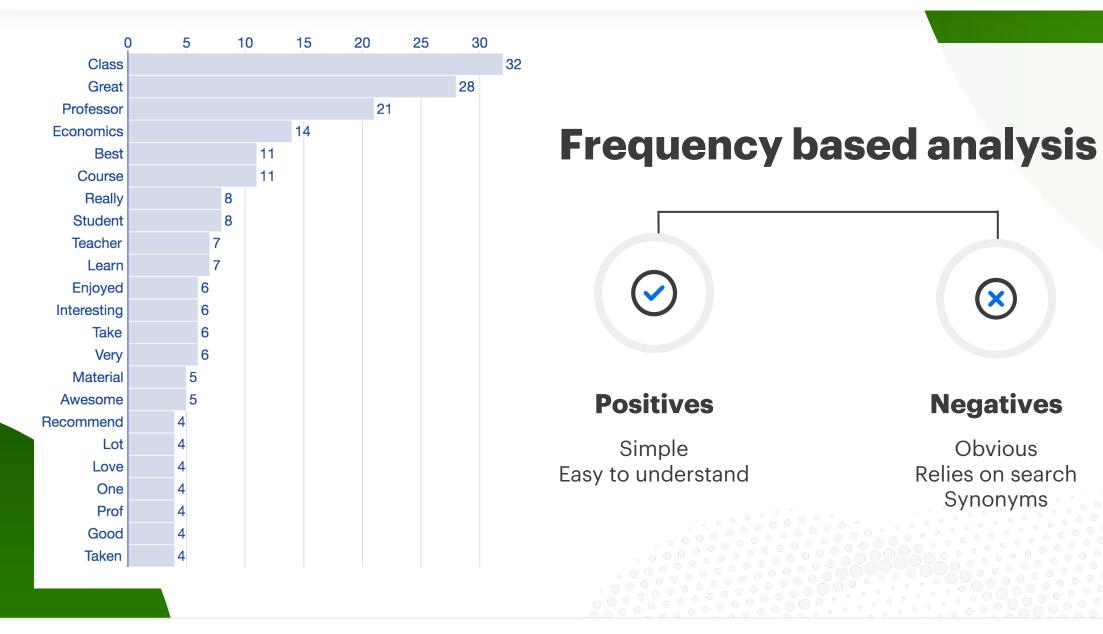






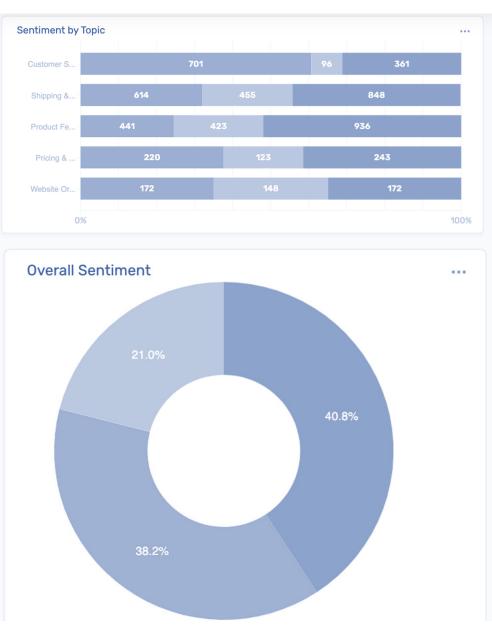
Relative insight helps you analyse and visualise your text data





X





Sentiment analysis



Positives

Often requested Ultimate goal

(\mathbf{x})

Negatives

Inaccurate Incorrect conclusions Sarcasm



Word cloud

Licksweich oberett ach-villan
to unfogi für deed revokement virletty unifequened
to unfogi deed deel to unifequence virletty unifequened
to unfogi deel deel to unifequence virletty unifequened
to unfogi deel deel to unifequence virletty unifequened
to unfogi deel deel to unifequence virletty unifequened
to darphe kennolise de uniferation of unifequence virletty unifequened
to darphe kennolise de uniferation of unifequence virletty unifeque



Feels comprehensive Easy to generate

Negatives

Obvious Assumptions

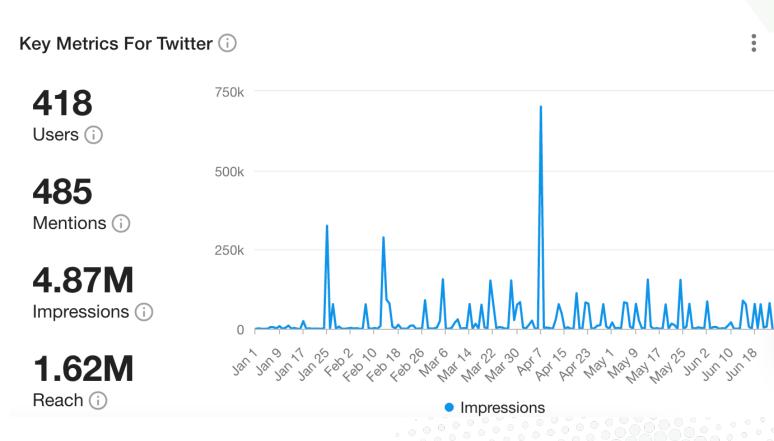


Words invented or coined by Shakespeare

worder de server and witche de server and witche server de servere

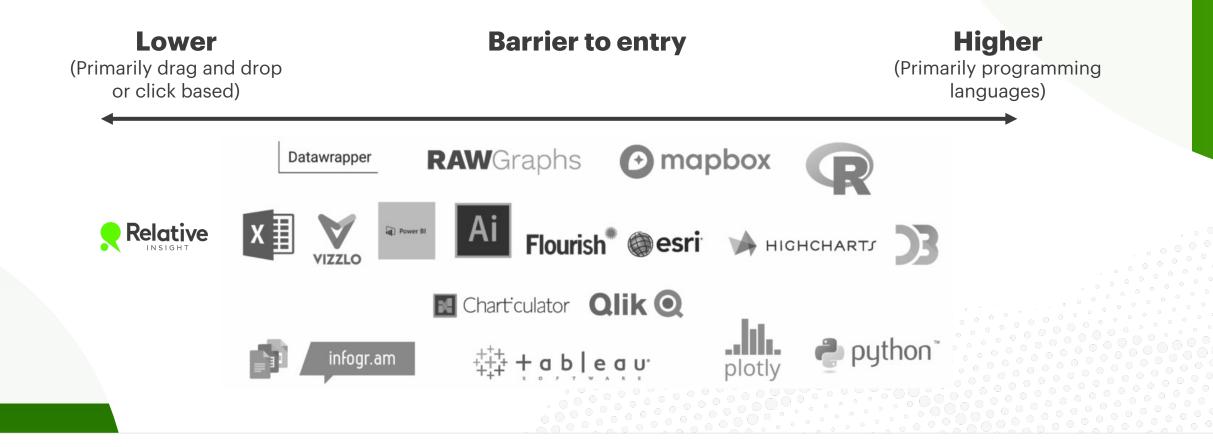


Mentions of 'Asda' on social



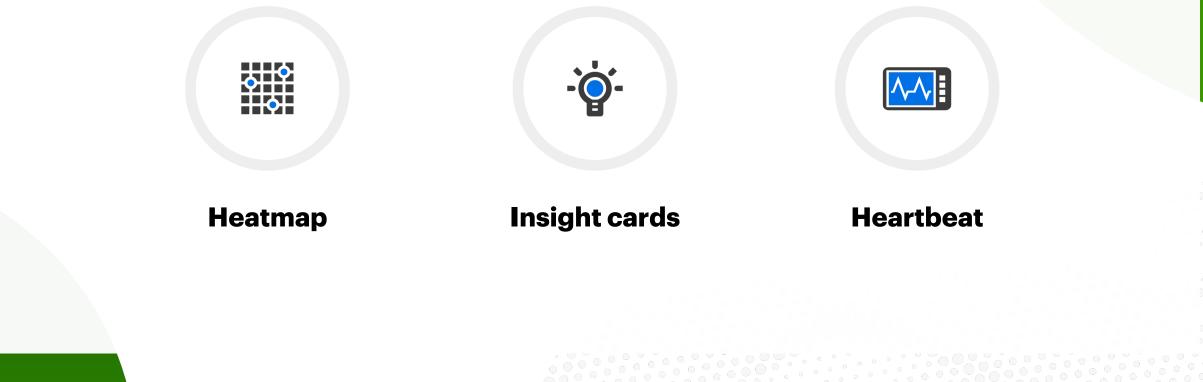


Effective visualisation relies on using the best tool for the job.

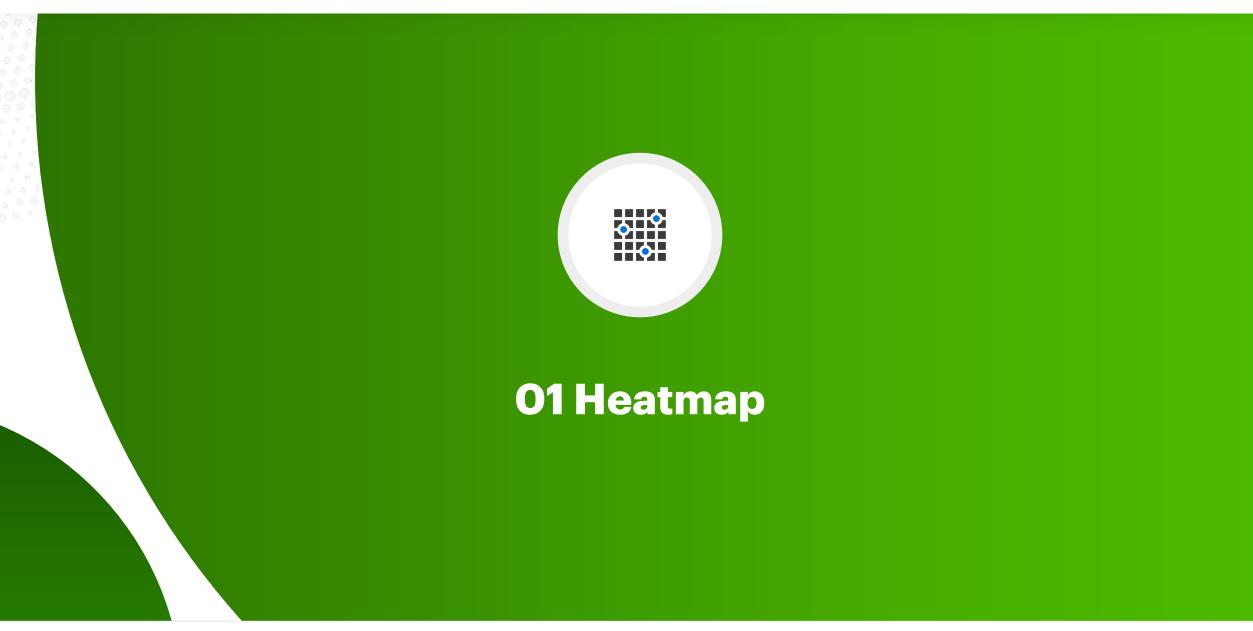




Relative insight has three ways of visualising text data

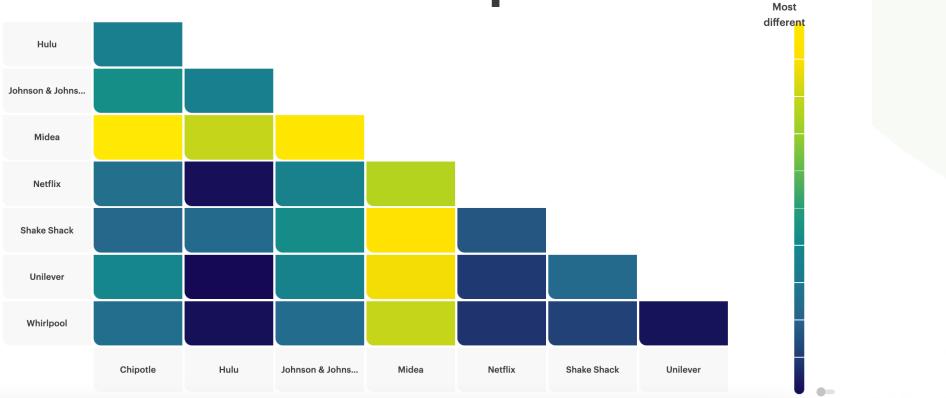
















02 Insight cards

1ª

DA

2

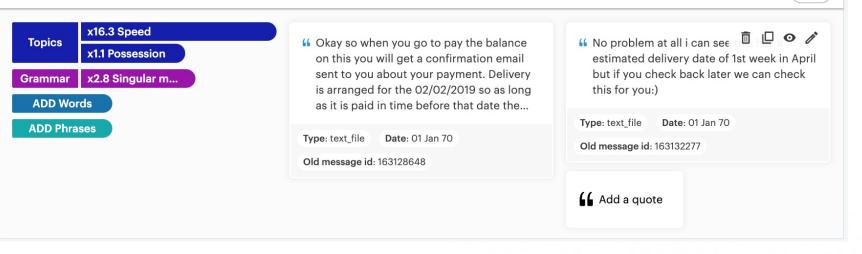


Insight cards

2. Agents proactively mention expected timings

Promotor interactions are nearly 7x more likely to have mentioned timelines for the product being delivered. ACTIONS: Get agents to proactively mention expected delivery timelines.

Promotors differences 6.7x more likely



DA

F



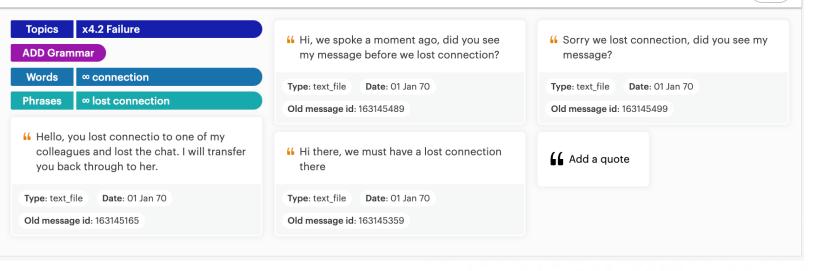
Insight cards

5. Poor connectivity causes frustration

Detractors are more likely to face poor connectivity issues.

ACTIONS: Option to run speed test at start of conversation, or provide backup number in case of lost connectivity.

Detractors differences 4.2x more likely





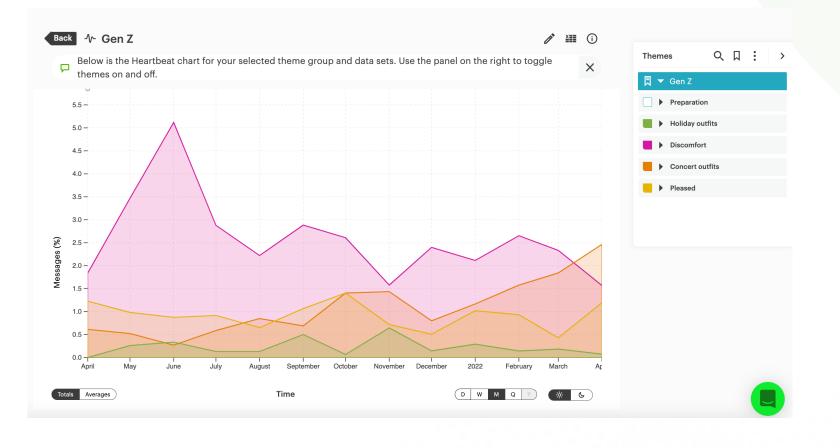


03 Heartbeat

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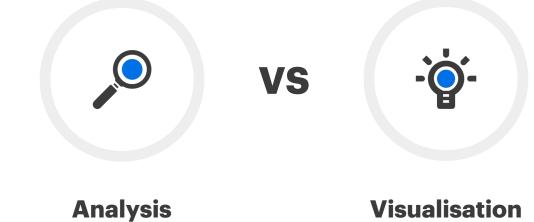


Heartbeat





Can you separate the two?







How will I visualise this?