

Business Intelligence 101

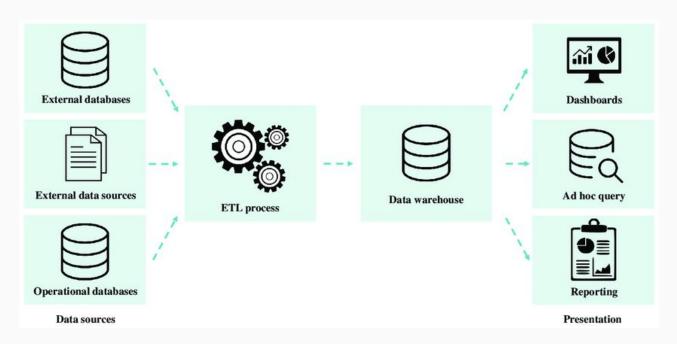
Changing the way you think about data!

itsmecevi.github.io widyaanalytic.com

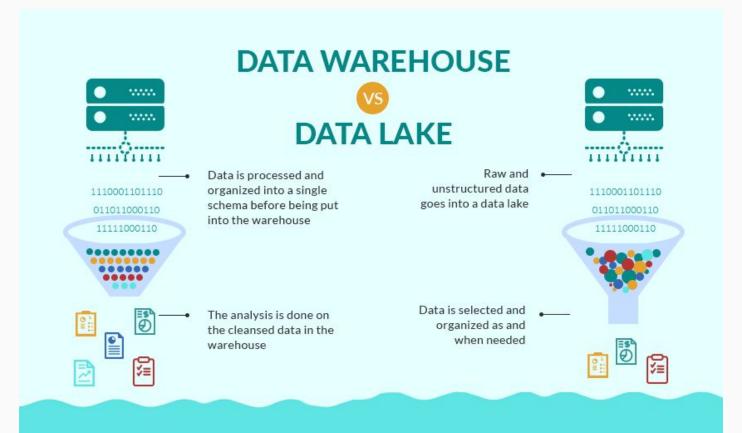
Agenda:

- 1. Business Intelligence Scope
- Self-Service Business Intelligence (modern BI)
- 3. Clash of the titan! SSBI Industry-Update
- 4. Tableau Products

BI Data Workflow



Big Data Workflow



Business Intelligence processes include:

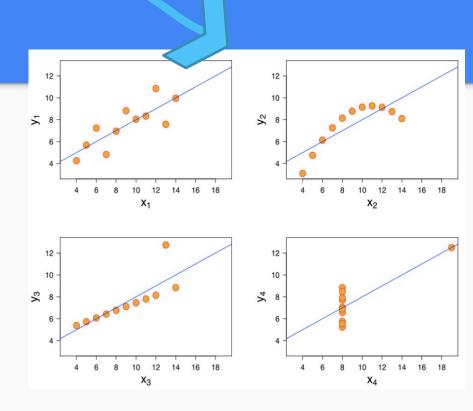
Data mining (Predictive Analytics)
Reporting (Dashboard & Ad-Hoc)
Descriptive analytics
Querying

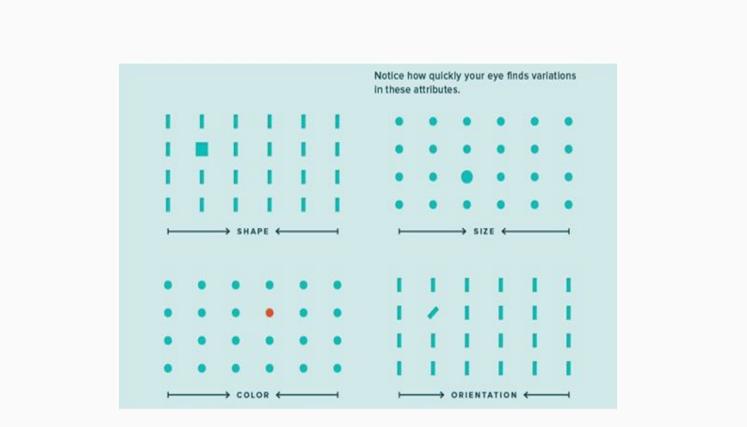
Statistical analysis
Data visualization
Visual analysis
Data preparation

The Power of Data Visualization

Are you able to see any patterns, relations?

	\mathbf{x}_{1}	\mathbf{y}_1	X_2	y_2	x_3	y_3	x_4	y_4
90	10.0	8.04	10.0	9.14	10.0	7.46	8.0	6.58
	8.0	6.95	8.0	8.14	8.0	6.77	8.0	5.76
	13.0	7.58	13.0	8.74	13.0	12.74	8.0	7.71
	9.0	8.81	9.0	8.77	9.0	7.11	8.0	8.84
	11.0	8.33	11.0	9.26	11.0	7.81	8.0	8.47
	14.0	9.96	14.0	8.10	14.0	8.84	8.0	7.04
	6.0	7.24	6.0	6.13	6.0	6.08	8.0	5.25
	4.0	4.26	4.0	3.10	4.0	5.39	19.0	12.50
	12.0	10.84	12.0	9.13	12.0	8.15	8.0	5.56
	7.0	4.82	7.0	7.26	7.0	6.42	8.0	7.91
	5.0	5.68	5.0	4.74	5.0	5.73	8.0	6.89





Data visualization: what you need to know

People are 30 times more likely to absorb high-quality infographics than plain text.

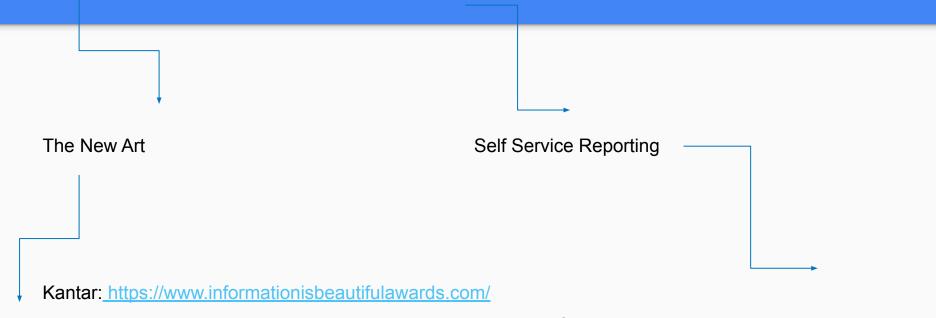
97% information will deem to be accurate and truthful with data visualization

90% of the information transmitted to the brain is visual

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Data visualization strategy will provide an ROI of \$13.01 back on every dollar spent.

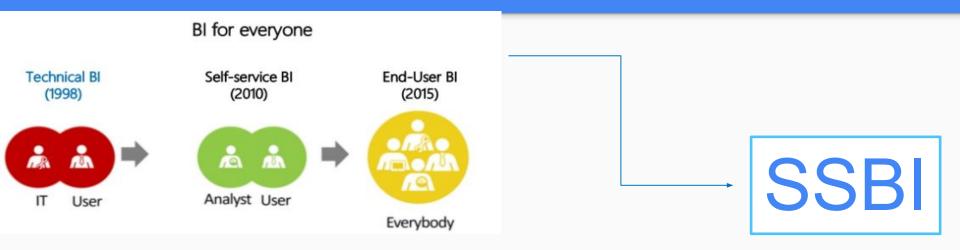
Data Viz vs Visual Analytics



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Nand Studio: https://nand.io/projects/peak-spotting

BI History:



Keys point...



Self-serviceBI vs traditional BI tools



I need an answer to my question get data

get hold of IT contact to use BI tool

wait for IT contact to juggle his time

> wait 2/3 weeks for feedback

go back to IT contact because he hasn't answered the original question

repeat process





Top Reasons SSBI

- Fast Reporting
- Save Time
- Save Money
- Faster Decisions
- Flexible Solution
- On premises/cloud
- Insert R/Python scripting

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BUSINESS INTELLIGENCE

SELF SERVICE BI VS TRADITIONAL BI



FAST REPORTING

The self-service BI tool will b much more adaptable and easy to use.

SAVE TIME

By removing the dependency on technical staff are able to ncrease the efficiency of their analytical process.

SAVE MONEY

Data reporting staff or technical team is not needed, as end users can report themselves.

EASTED DECISIONS

Self-service BI helps in better decision-making process by delivering quick and accurate

FLEXIBLE SOLUTION

End users can analyze their business data from any device, anywhere, at any time



PREDEFINED REPORTS

With traditional BI tools, interaction with business data is only possible through reports, which were previously created by the IT team.

DATA WAREHOUSES

Data warehouses store all the data required for analysis and most of the time demand pre-

HIGH COST

These BI tools are comparatively expensive to purchase and difficult to implement when compared to self-service BI tools.

PRESET METRICS

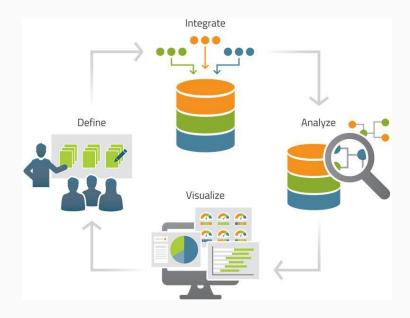
Traditional BI tools are highly ependant on IT teams, the metrics have to be preset and changes to visualization can only be made by

DESKTOP DEPENDANT

Users can only access the business data that were previously included in dashboard created on the desktop.

Looking for a self-service business intelligence tool? Visit: Roosboard.cor

BI Processes & Industry:





BI: Gartner Magic Quadrant Research Methodology



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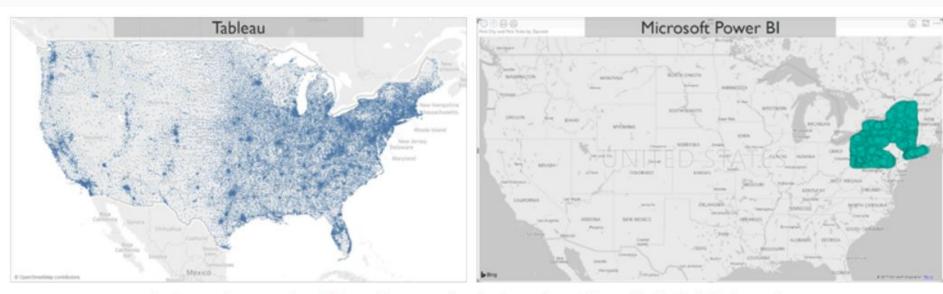
Clash of the Titans!

Power BI vs Tableau

Parameter:

- Visualization
- Cost
- Integration! Embedded system
- Data management
- Functionality
- Revenue
- Implementation Team
- The End Users (Who and How Many)
- Number of Systems You'll Connect
- How Will You Be Using the Tool?
- Gold-Standard Desired
- Do you have Office 365?
- Datasets over 10 GB
- Comfortable Spending Extra Time or Money?

Key Identifiers / Strengths



Real comparison screenshot, Tableau with 38,000+ zip codes data points and Power BI with the limited 3500 data points.

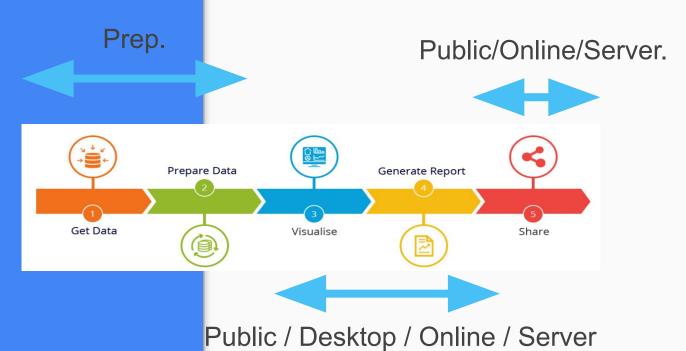
Tableau Products

https://www.tableau.com/products

Tableau Prep.



Tableau Workflow



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