

The Data Storytelling Cheat Sheet

Facts

Data storytelling is not about telling fairy tales. It's

- More than a visualization or presentation of data.
- A structured form (tool) of data communication.
- Getting one key message across.
- It's the red thread within the data analysis. Numbers are put into context.
- Communicating the results in an understandable language to motivate the stakeholder to act (i.e. make decisions).

Why apply storytelling to your data project?

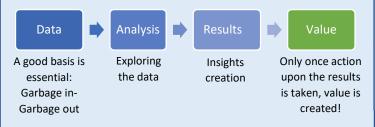
- Our brain prefers stories over plain data.
- Stories trigger our emotional response and foster understanding for complex topics.
- The brain can better process and remember figures if packed within a story.

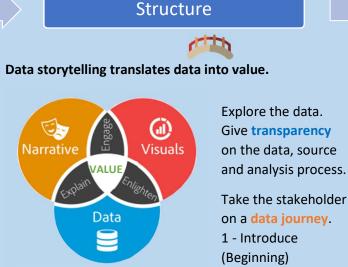
When are data stories recommended?

• Data insights are complex, disruptive and non-intuitive.

How does it work?

Data insights are turned into action = stakeholders make decisions.



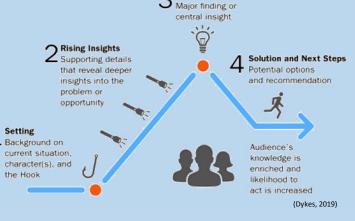


(Dykes, 2016)

Create non-misleading, welllabelled and simple visuals around your story.

Create the data journey in a linear sequence of





3 Aha Moment





Understand the business need. What should change after finalizing the project? Write it down as accurate as possible.



Get to know your stakeholders.*

Process



Analyse the data and choose the most relevant key message from your generated insights.



Create your target-oriented story around this key message. Keep in mind the narrative structure.



2 - dive-deep into the

data (Middle) and

3 - conclude (End).

Be aware that your story is subjective. Don't show your perspective but what the stakeholder needs.



Remind yourself of your goal. Read your notes. What should your analysis trigger.



Support your story message with a simple (!) visualization. Keep in mind good labelling, adding e.g. legends, a glossary and annotations.

Ask yourself questions.*



Collect feedback from colleagues and stakeholders.



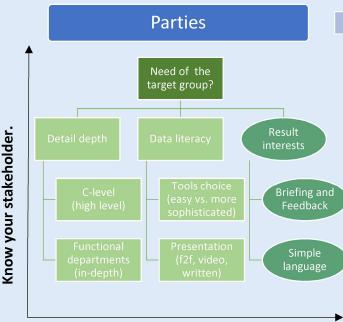
takeholders.

Stay inspired and up-to-date to constantly improve yourself.*





The Data Storytelling Cheat Sheet



The "Art & Science" mind of a data storyteller.

Data understanding • IT skills (Analytical skills) Methodical know-how • Business understanding Strategic management • Project management Scientific disciplines (behavioural economics, learning theory, decision theory,..)

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Creative • Curious • Resilient • Patient Teamplayer • Focused • Critical thinker Communicative • Rhetorically skilled • Selfconfident • Visual thinker

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Supportive, open-minded company culture.

Checklist

- Does my story answer the business question?
- Do I know my stakeholders to satisfy their business needs and data interests?
- Are the results understandable, targetoriented and circle around **one key** message?
- Does my story trigger a call to action?
- Is the communication language simple (e.g. no technical explanations)?
- Does the data story follow a linear sequence?
- Are the numbers put into context (e.g. high/low values are good/bad)?
- O Are the visualizations simple and familiar?
- Do the graphics contain enough annotations, comments, etc. so that the visuals speak for themselves?
- Is the analysis process transparent and are the data sources shown?

Remember the 5 W's.

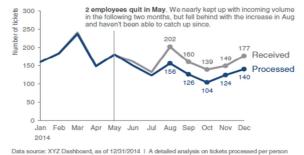
- Who are your stakeholders?
- What happened (results)?
- Why did it happen (background information, explanation)?
- When did it happen (linear sequence)?
- Where did you retrieve your data from?

Get inspired

Data story example.

Please approve the hire of 2 FTEs to backfill those who guit in the past year

Ticket volume over time



Data source: XYZ Dashboard, as of 12/31/2014 | A detailed analysis on tickets processed per person and time to resolve issues was undertaken to inform this request and can be provided if needed. (Knaflic, 2015)

Inspiration.

Websites.

- * informationisbeautiful.net
- * <u>chartr.co</u>

Podcasts.

* storytellingwithdata.com

Related fields.

* Data journalism. Eg. nytimes.com "theUpshot".

Community.

- * datastudio.google.com
- * public.tableau.com

Books.

- * Storytelling with data (Knaflic, 2015)
- * The data storytelling workbook. (Feigenbaum, A., & Alamalhodaei, A. 2020)



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