Typical BI Tool Functionality
An overview

Get data & shape it
- Connect
- Transform
- Load
- Test
- Add data

Deploy / Publish
- Publish on server / in cloud
- Automate refresh
- Share securely

Build interactive Report / Dashboard
- Visualizations
- Filters
- Navigation

Consume Reports
- Always the latest data
- Managed centrally (by business users!)
- Everyone sees what they are allowed to see (report or row-level security)
Demo Time!
BI Tool Trends

Usually following general IT trends

Now

Static Reports
Dyn./interactive Reports
Self-Service & “Social” BI
R/Python Integr.
Natural Language Input
Automated insights

User-oriented

Cloud (Hybrid)
Big Data / Real-time
Embedded/OEM
Custom Viz (D3!)

Infra/Dev
Gartner Magic Quadrant
What companies look at to preselect a BI tool...
## Commercial BI Tools

### Overview of 3 market leaders

<table>
<thead>
<tr>
<th>Company</th>
<th>Qlik</th>
<th>Microsoft</th>
<th>Tableau</th>
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| **What Sebastian finds cool about it** | ● Mobile first: End-to-end on the tablet  
● Powerful scripting language for data prep which works in cloud, too  
● Advanced data modeling | ● Powerful visual data prep  
● Advanced data modeling  
● Platform (PowerApps, Flow, Azure, Excel…) | ● Visual ad-hoc analysis with high data density  
● Highly flexible for advanced and creative visualizations  
● Most spread in opendata circles |
| **Usage for open data / free version** | ● Fully functional local version  
● Limited free cloud, share with up to 5 | ● Fully functional local version  
● Publish to web | ● Local version for open projects that can (only) be saved publicly in web |
Open Source BI Tools

2 challengers which I see up and coming

Metabase
- Based on Java
- Readily available as standalone on Mac OS, as Docker container etc.
- Very modern appearance
- https://metabase.com/

Superset
- Based on Python
- Open-sourced by Airbnb
- In Apache incubator program
- A bit geeky…
- https://superset.incubator.apache.org/
LET’S MAKE SENSE.

Sebastian Baumhauer
sebastian.baumhauer@d-one.ai

+ 41 44 435 10 10
+ 41 79 514 98 16

D ONE Solutions AG
Sihlfeldstrasse 58
CH-8003 Zürich