

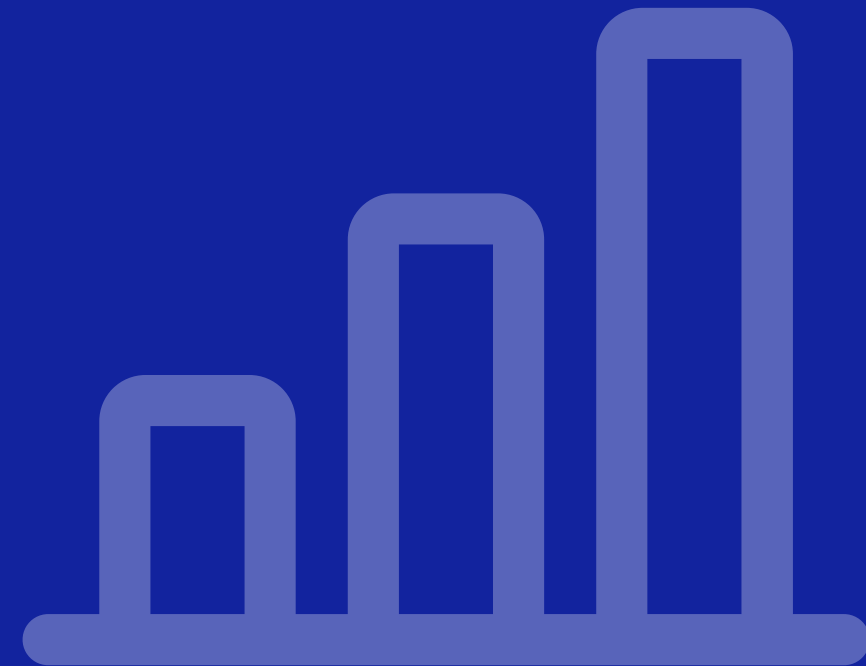
From visualization to storytelling:

creating story-like data experience in Power BI

Martynas Jočys

Power BI Gebruikersdag

2024-03-09



Platinum
partners

creates.

 **In Summa**

Goud
partners

 **Kimura**

 **plainwater**
de kracht van heldere data

KASPAROV
FINANCE & BI

Zilver
partners

 **rockfeather**

 **Dynamic**
People

GET
RESPONSIVE

Brons
partners

Hso

macaw

iqbs

VICTA
BUSINESS INTELLIGENCE

Quanto
collective analytics

ilionx

valcon

VALID
STAY AHEAD

Community
partners

broadwick
Data & development recruiters

THE
DATA
COOKS

 **Tabular Editor**

 **Datamanzi**

Power BI
Connector by DAVISTA

MINOVA

 **AZURRO** FINANCE

 **DATA KINGDOM**

volda;
INFORMATIESPECIALISTEN

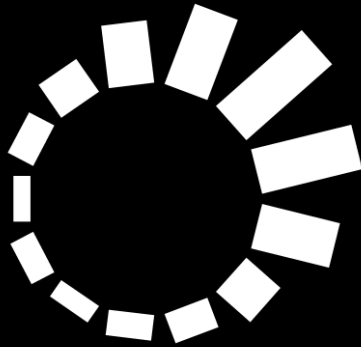
DashData.

VisionBI 
Smart Data Experts

 **easydash**

Goedendag

My name is Martynas

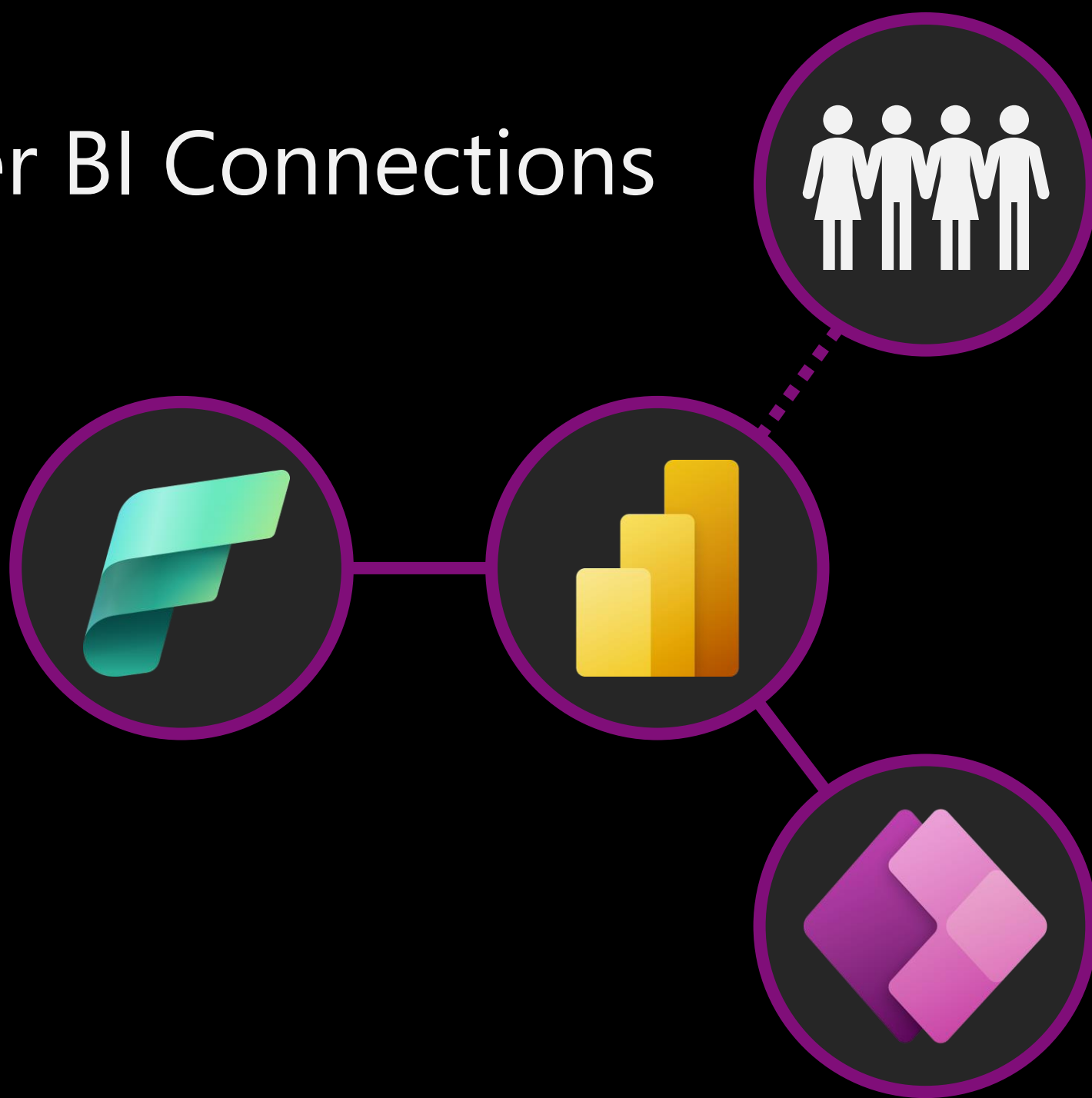


chartplanet.net

macaw

Data
Visualization
Lithuania

Power BI Connections



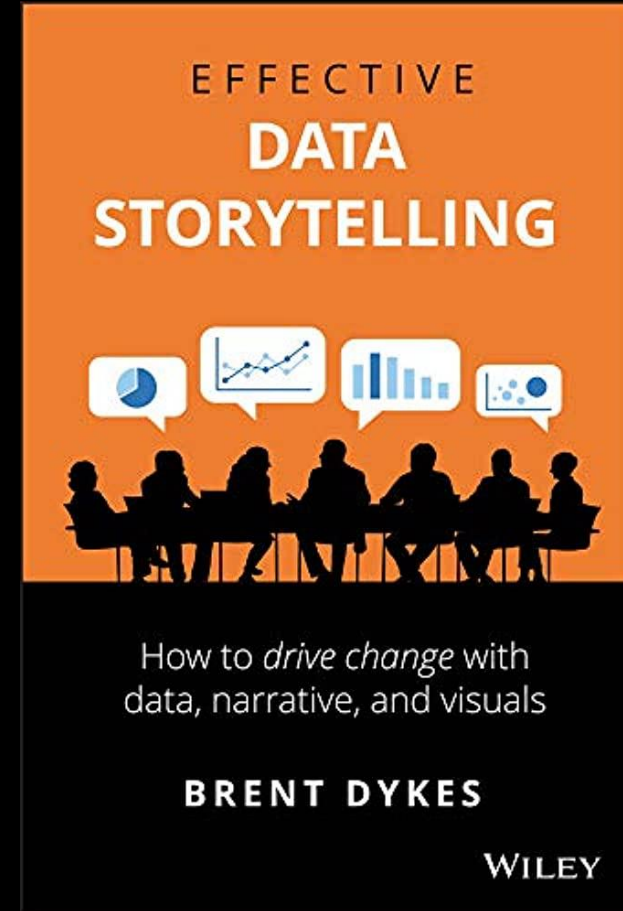
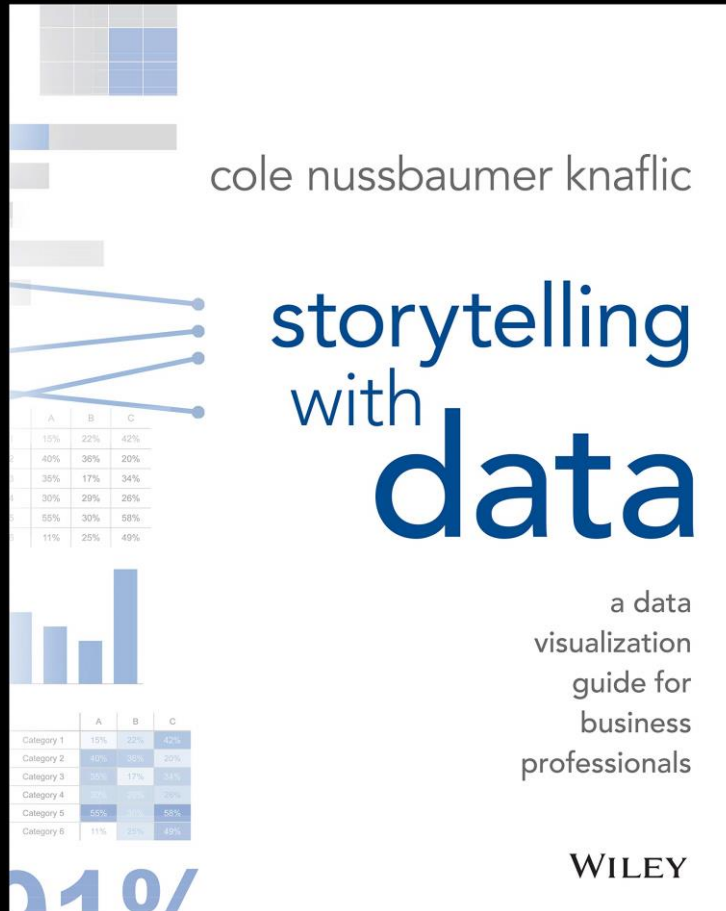
I will tell you a story about storytelling

- Dashboards cannot handle stories
- What is a story
- From data to story
- How to put a story into dashboard



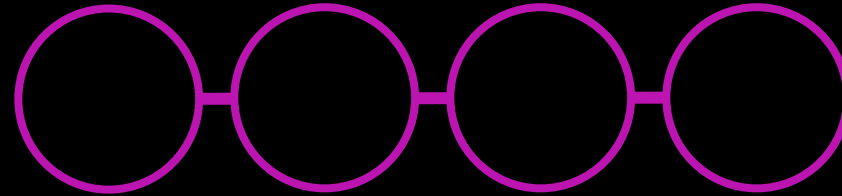
1

Dashboards cannot
handle stories

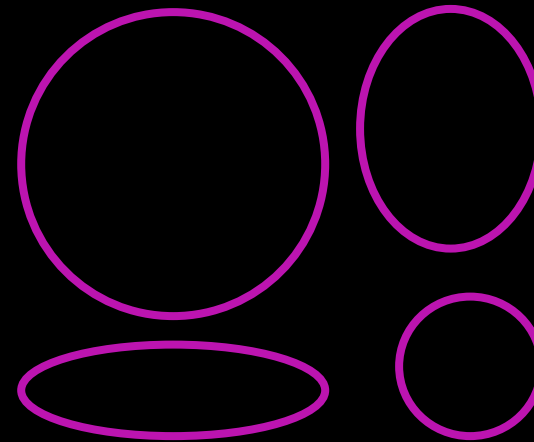


Where can we find data stories:

- Presentations
- Data journalism



- But not dashboards

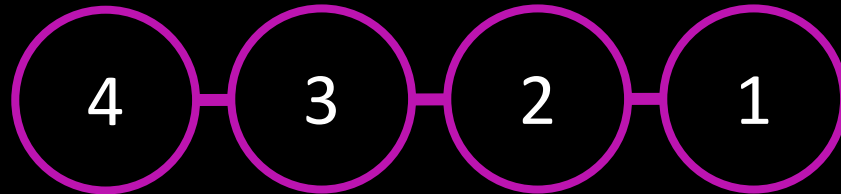
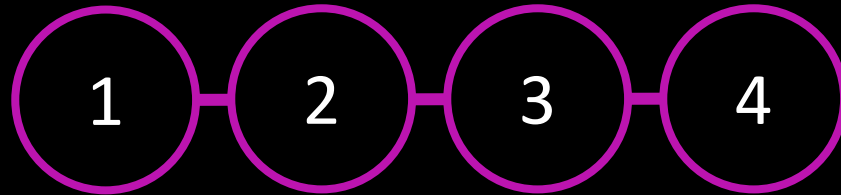




2

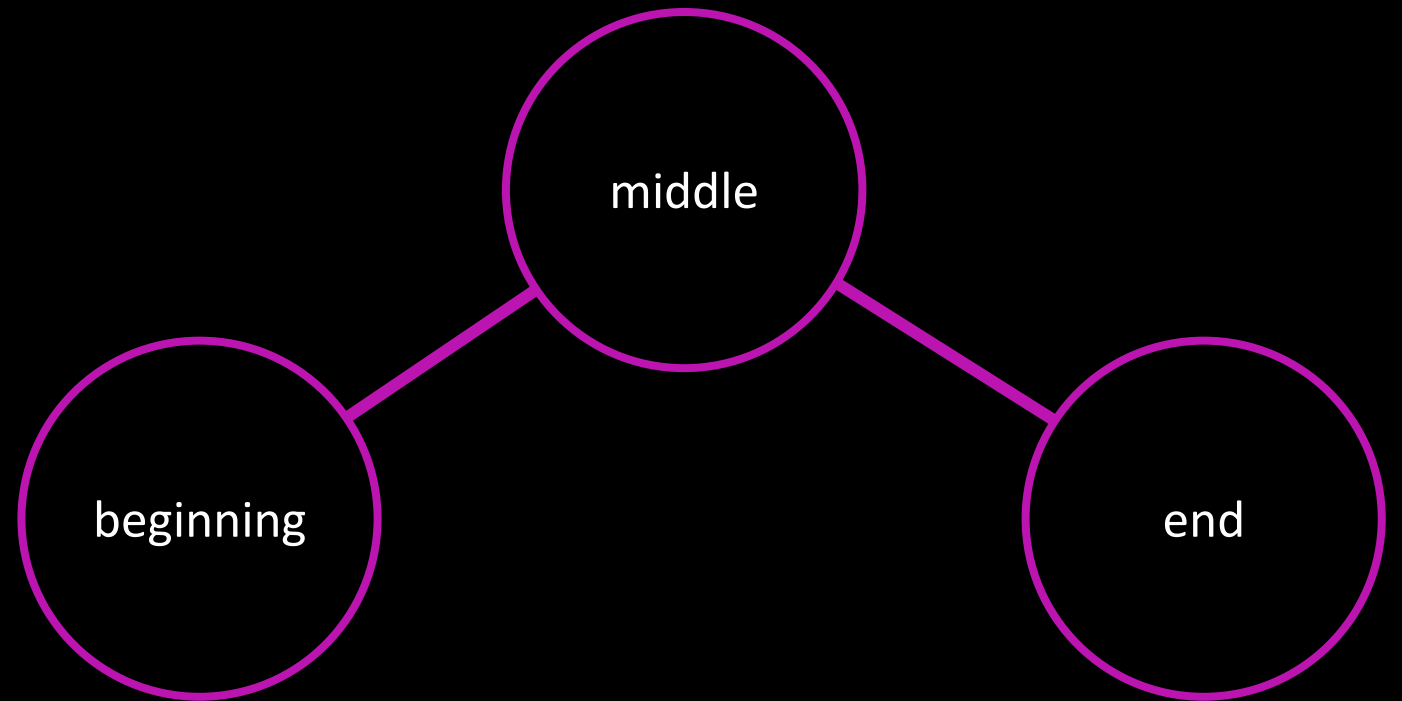
What is a story

Linear structure



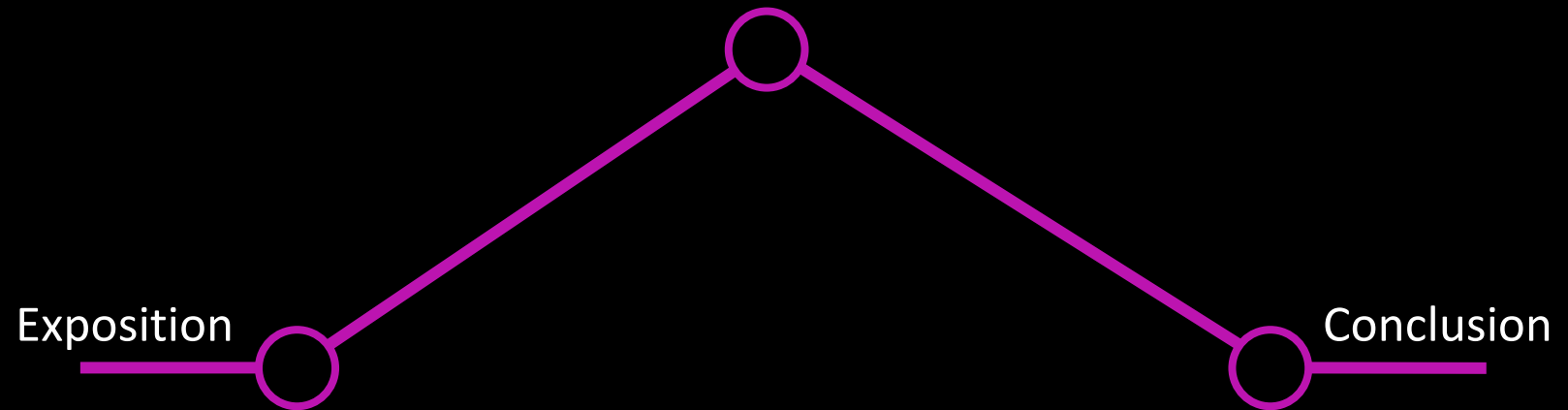
Narrative models

- 3 act model
- Freytag's pyramid
- Hero's journey



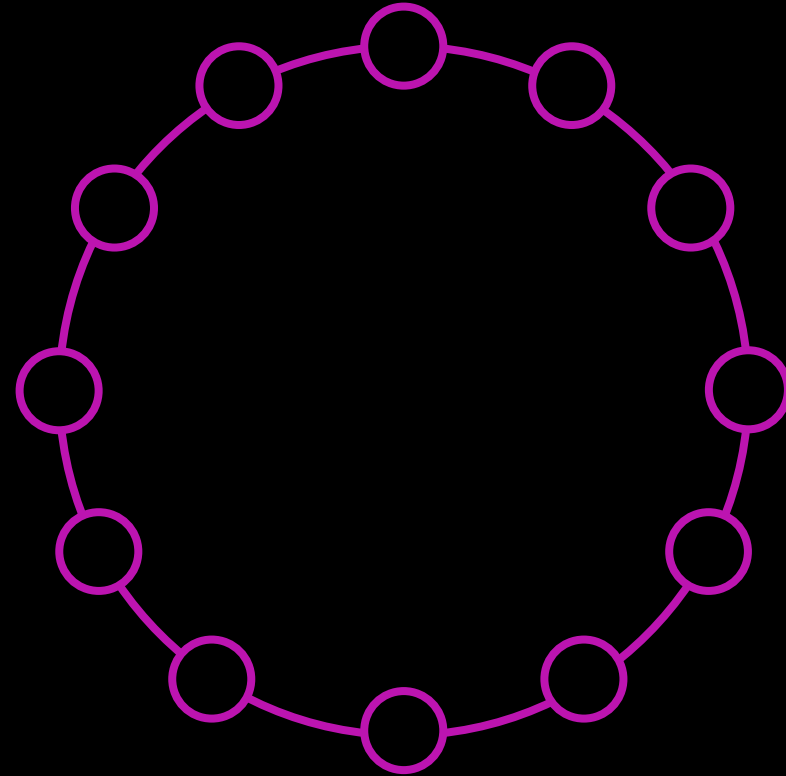
Narrative models

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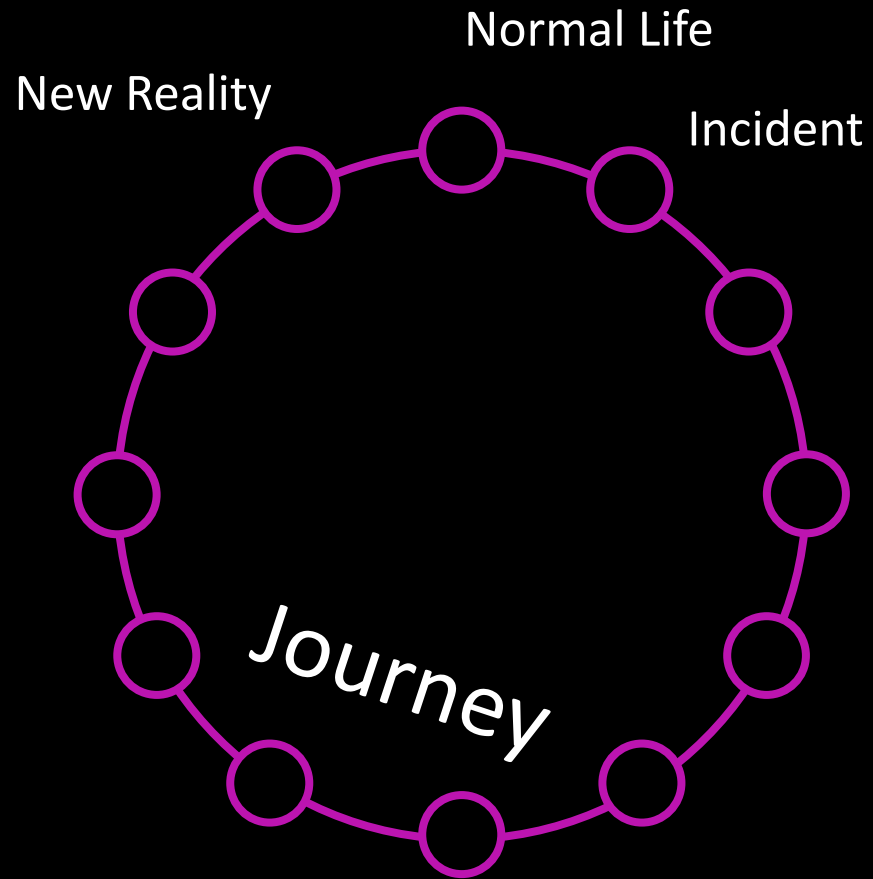
Narrative models

- 3 act model
- Freytag's pyramid
- Hero's journey



Narrative models

- 3 act model
- Freytag's pyramid
- Hero's journey



Hero's journey



Normal Life



Incident



Journey



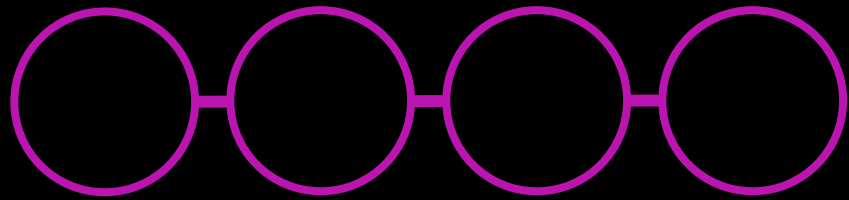
New Reality



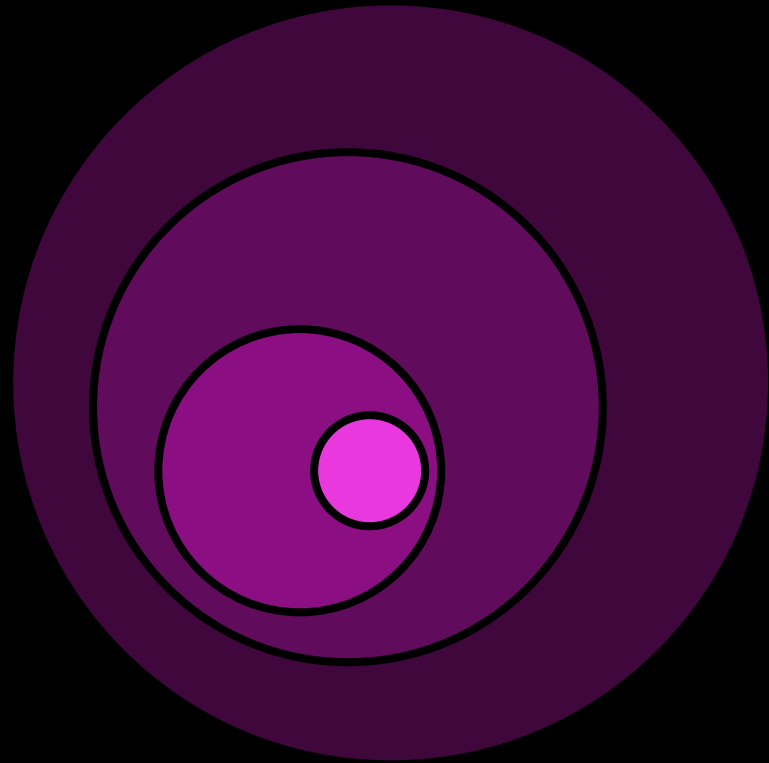
3

From data to story

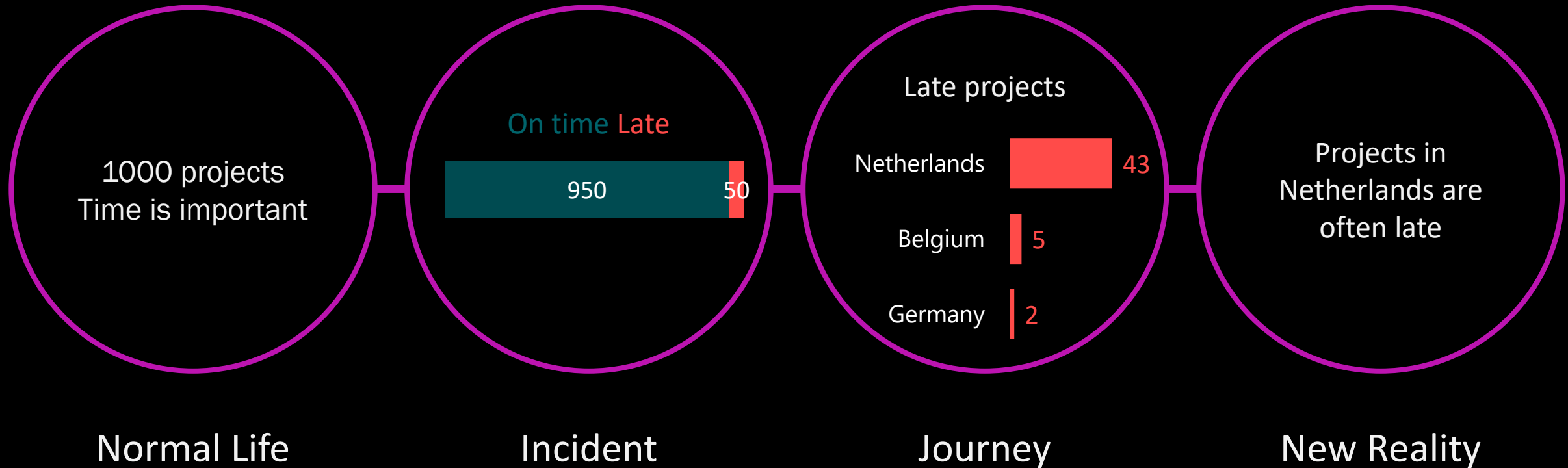
Time sequence




Depth sequence



You're a detective doing an investigation

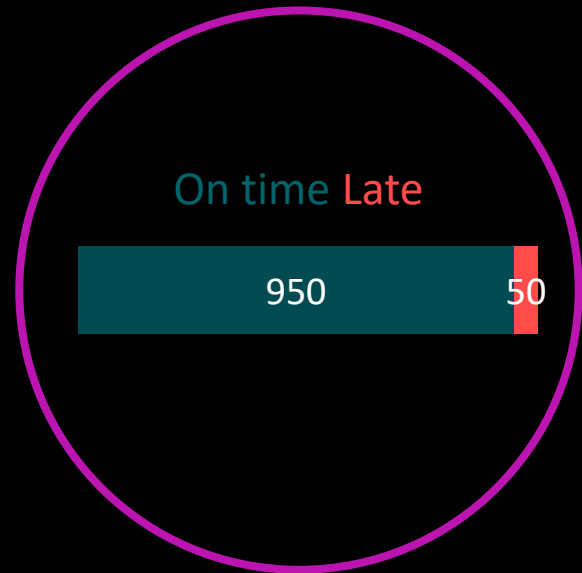




1000 projects
Time is important

Normal Life

- What are the KPIs
- What are their values
- What are targets

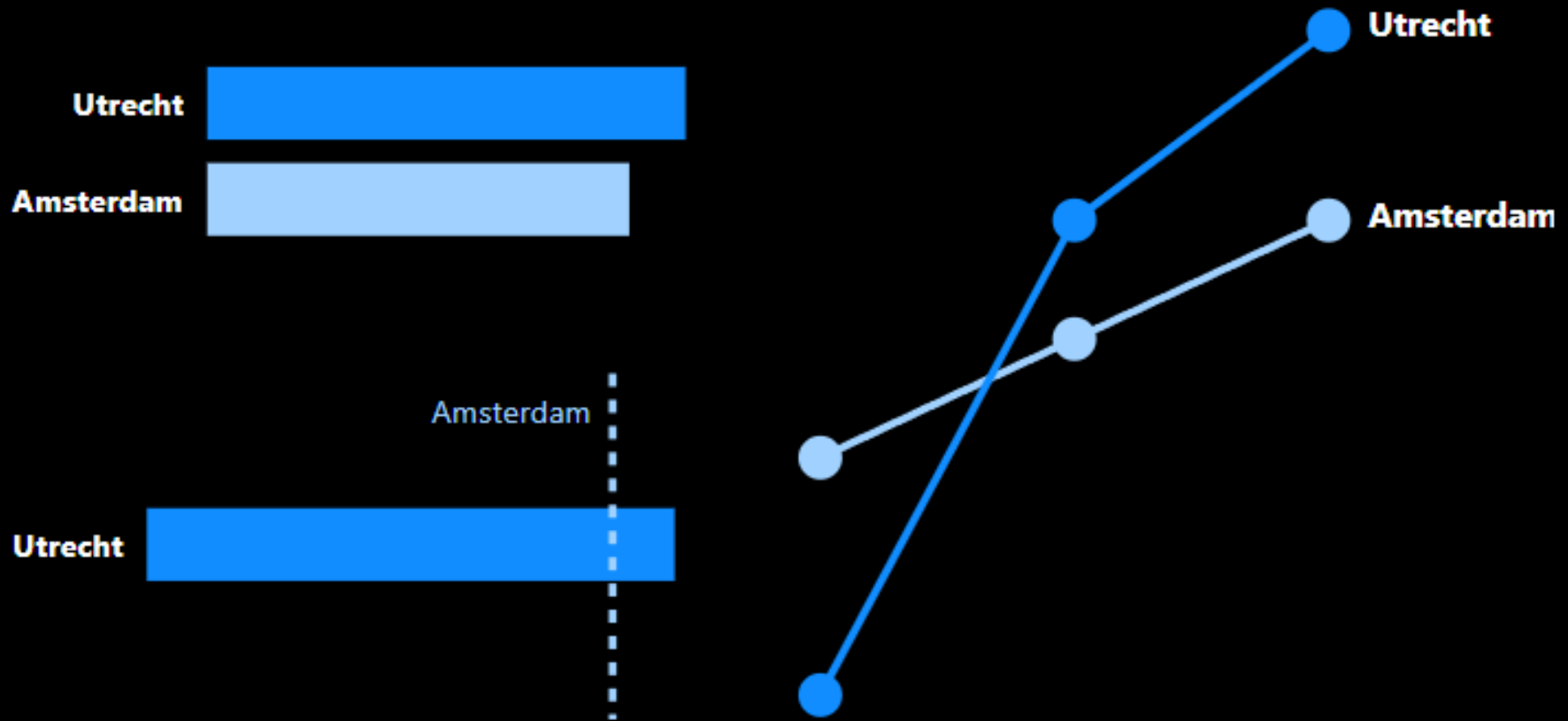


Incident

- Deviation from target?
- Drop compared to LY?
- Less than peers?

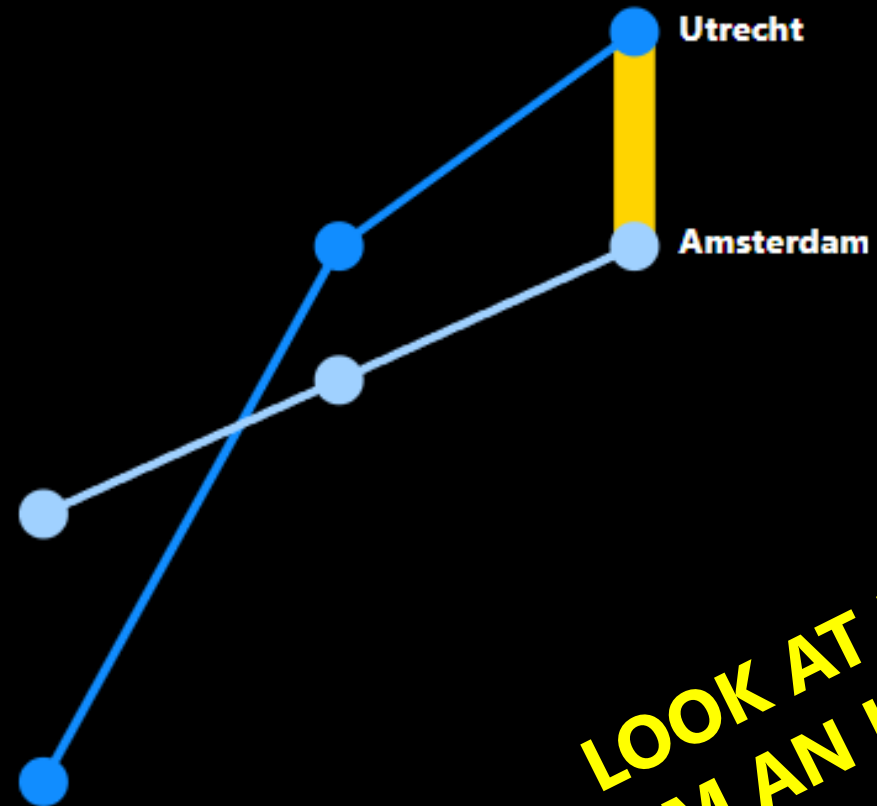
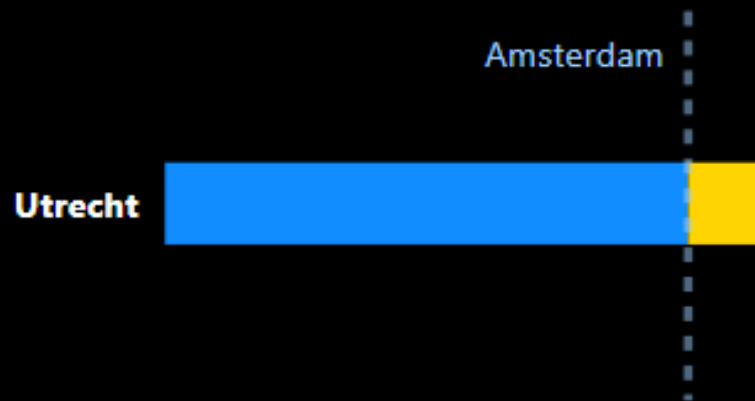
- Compare!
- Highlight!

Compare



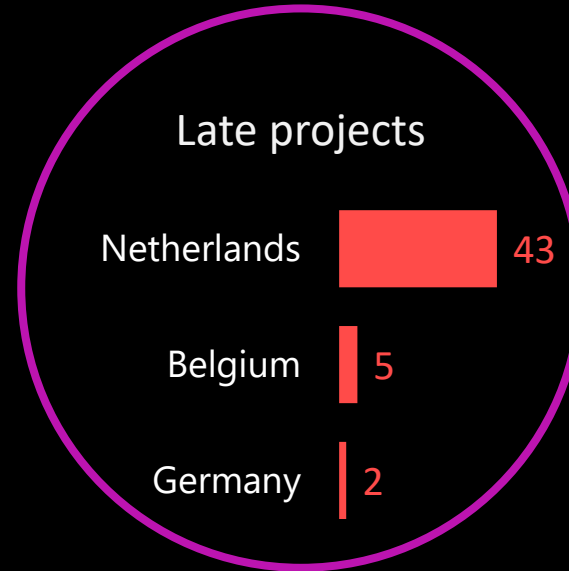
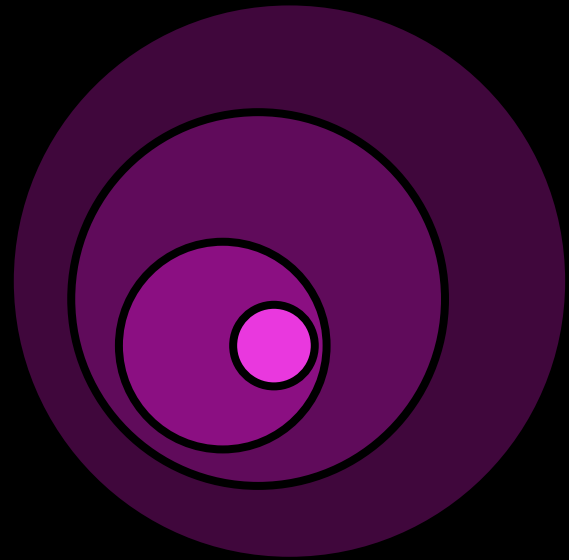
Compare & Highlight

● Amsterdam ● Utrecht



**LOOK AT ME!
I'M AN INCIDENT**

- Slicer
- Drill-through
- Navigation
- ...



Journey

- Aha! moment
- Cliffhanger for sequel (decisions, solutions)
- Cliffhanger for next episode (next month)



Projects in
Netherlands are
often late

New Reality

From data to story

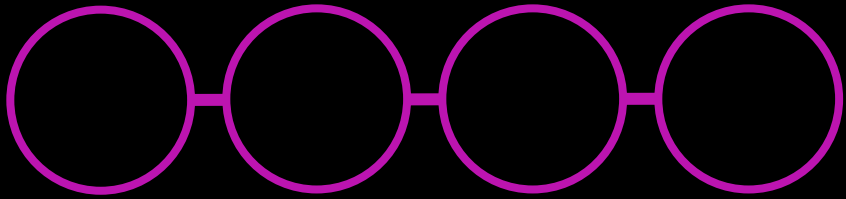
- Put data in depth sequence
- Identify deviations (incidents)
- Give an insight, conclusion (or guide towards it)



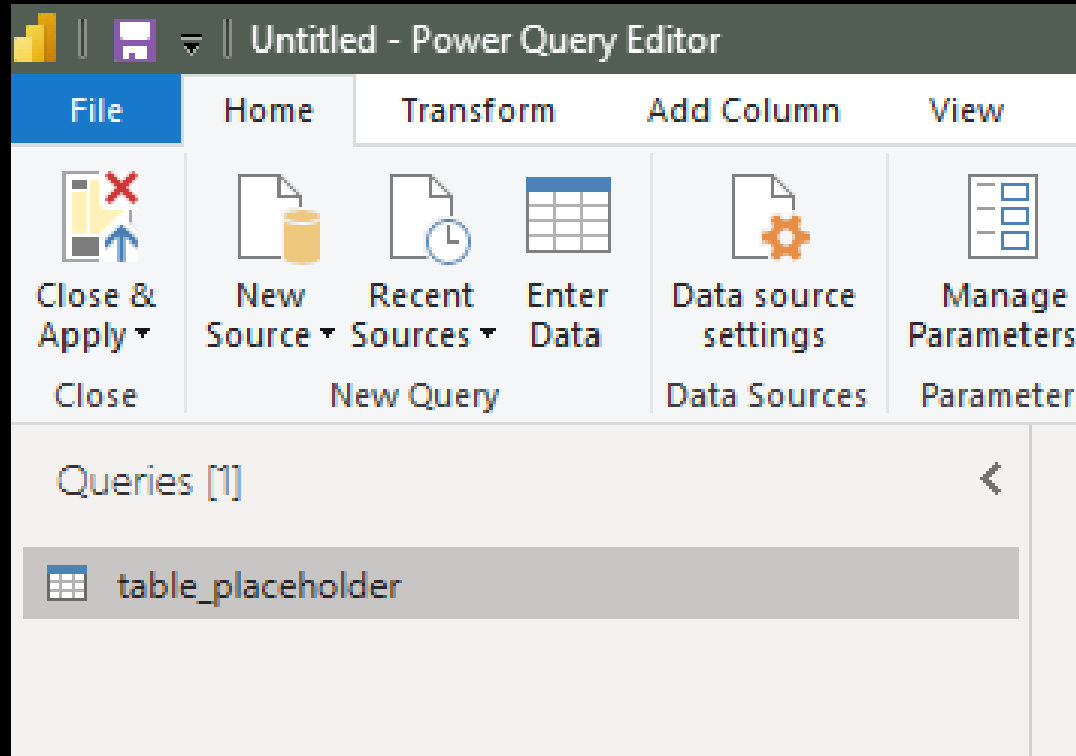
4

How to put a story into
dashboard

Problem 1: linearity



Problem 2: unknown insights



data:

- not ready
- not correct
- partial

Problem 3: goals



From data to story

- Put data in depth sequence
- Identify deviations (incidents)
- Give an insight, conclusion (or guide towards it)

From data to story

- Have clear hierarchy
- Have a way to highlight incident
- Guide the user through the dashboard



- Put data in depth sequence
- Identify deviations (incidents)
- Give an insight, conclusion (or guide towards it)

Solution 1

UX & Information Design

- how to guide reader's attention to achieve the right reading sequence



Data analyst
Business analyst
BI analyst
BI developer



Information
Designer

Solution 2

Visual Information-Seeking Mantra:

- Overview first
- Zoom and filter
- Details on demand



Overview first



WAYED method

Where

Are

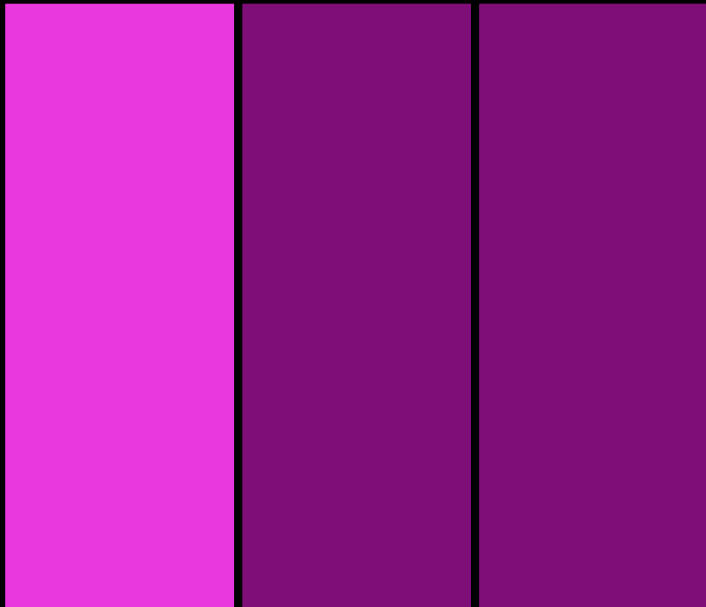
Your

Eyes

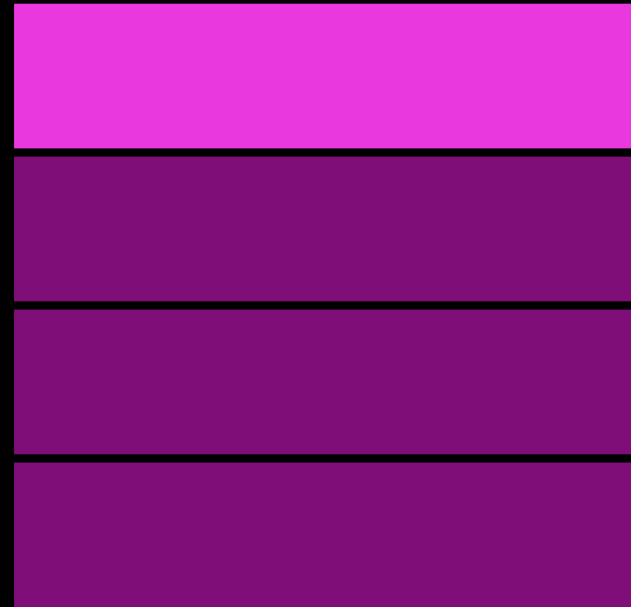
Drawn

Zoom and filter

Right

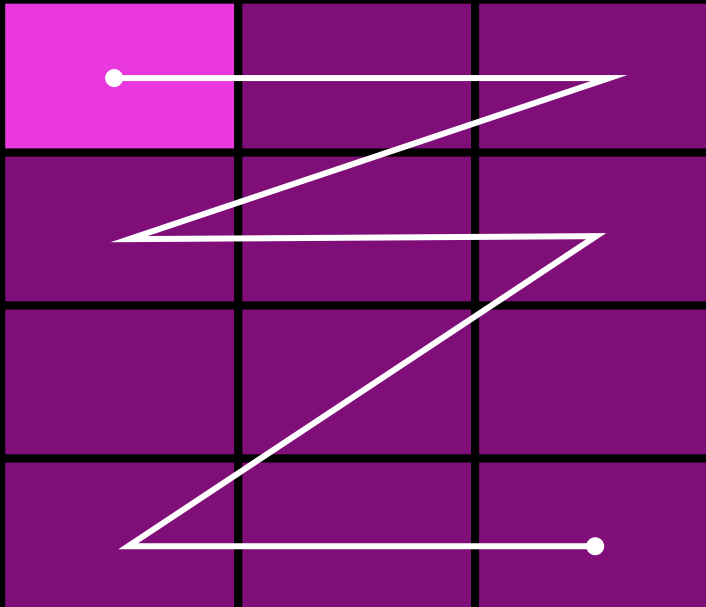


Down

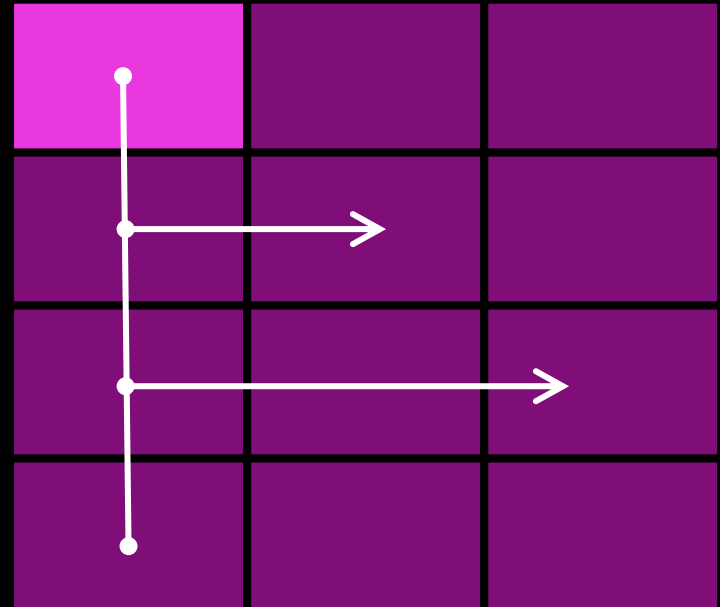


Zoom and filter

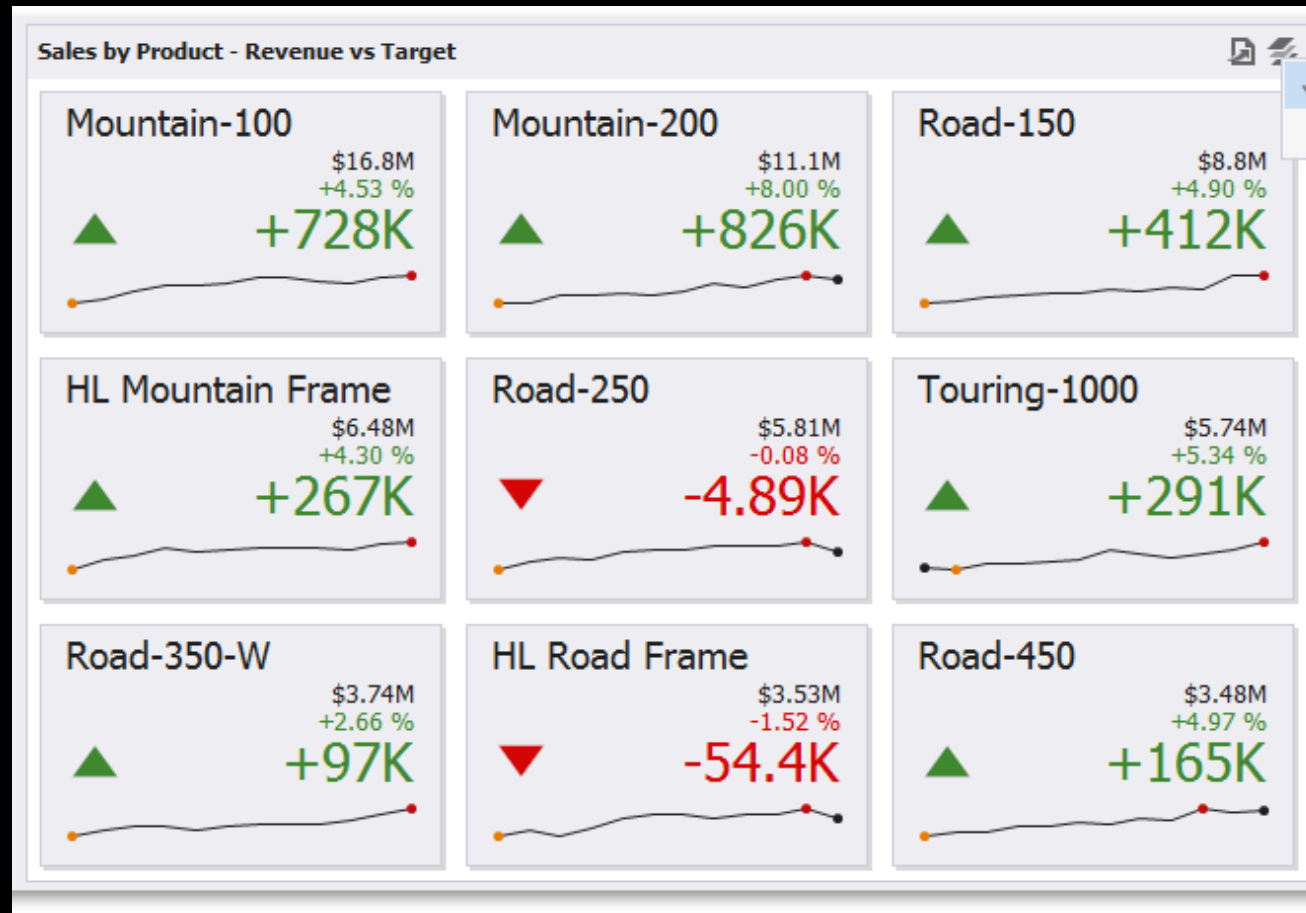
Z



F



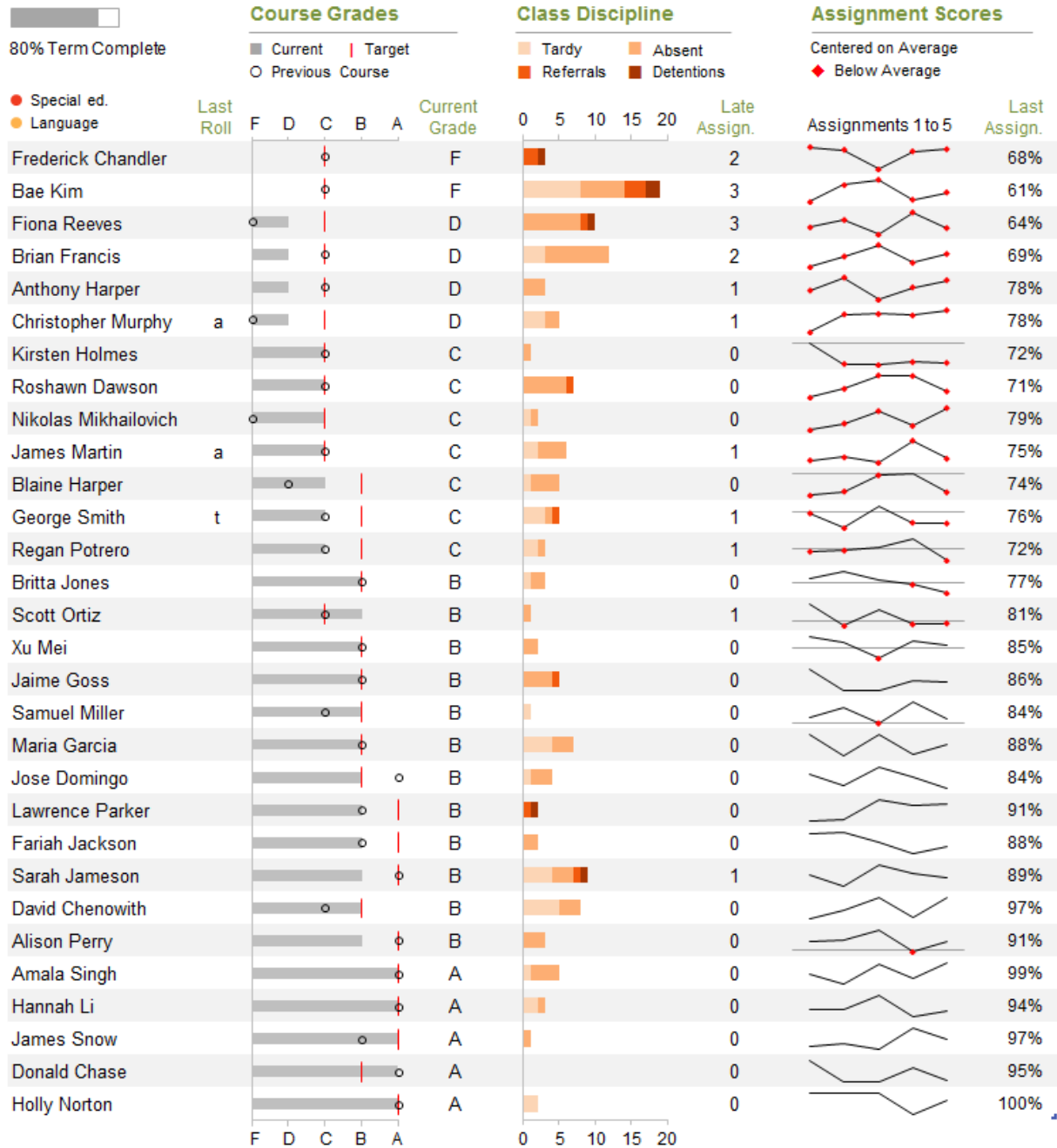
Z



F

May 1, 2012
Tuesday

Grade 10 Algebra Course



Details on demand

- Tooltips
- Drill-down
- Drill-through
- Pop-up
- Navigation
- ...

Keep guiding!

- Icons and images - not for decoration!
- Hint the interactive things!
- Navigation is visible - or at least findable!

**LOOK AT ME!
I'M A GRAPHICAL ELEMENT**

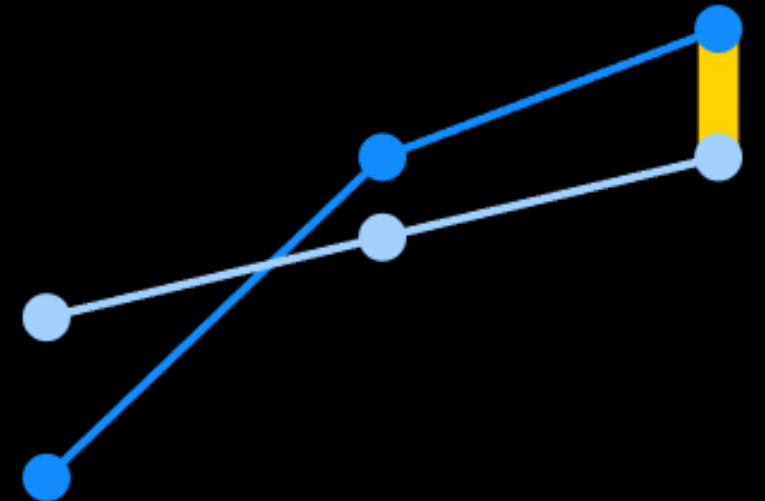
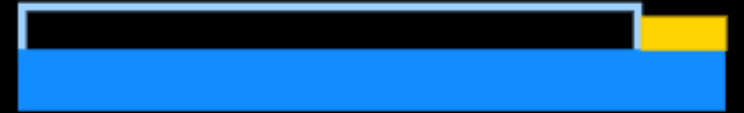
Highlight automatically

- Use labels
- Use error bars
- Use reference lines
- Use colour coding for easy tracking



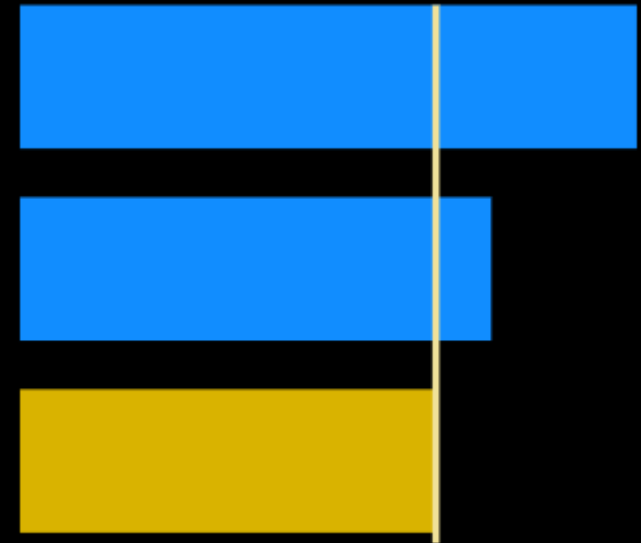
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Highlight automatically

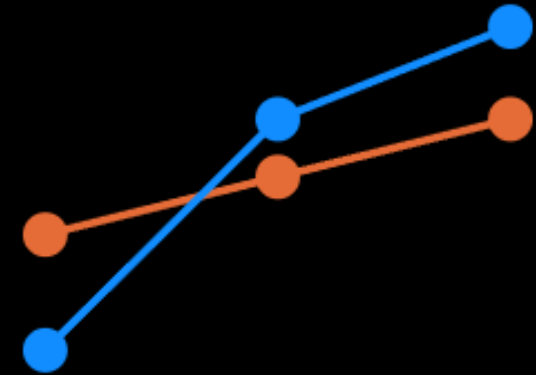
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Highlight automatically

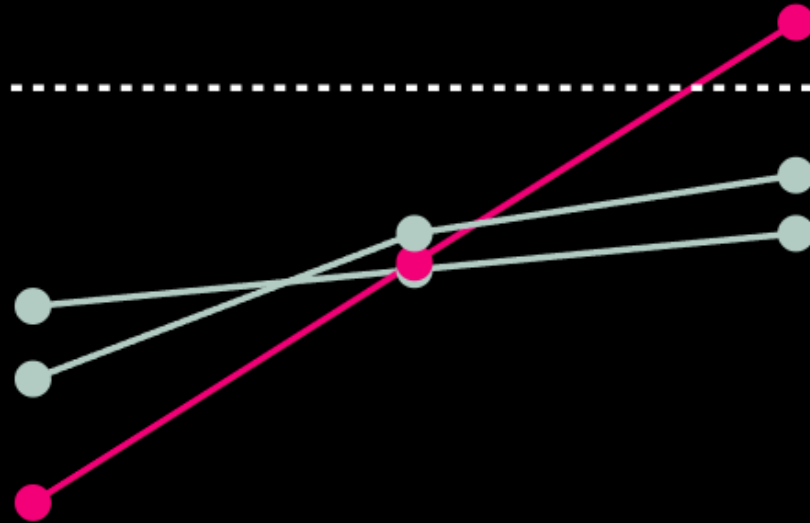
- Use labels
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- Use reference lines
- Use colour coding for easy tracking

60 68

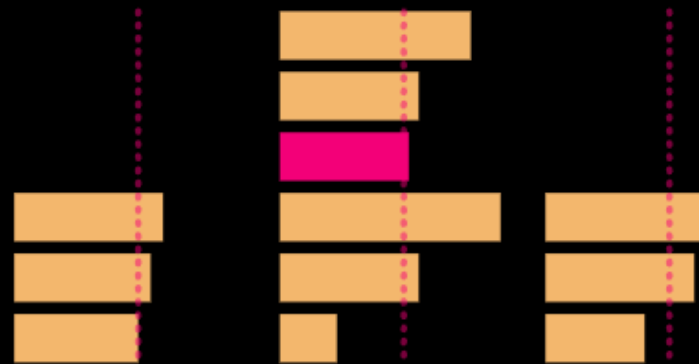
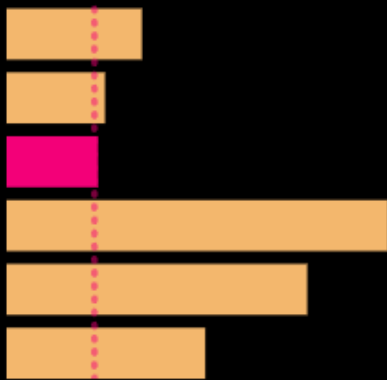


Example dashboard

60



68



How to have a story-like dashboard

- Have a clear information hierarchy (sequence)
- Start with overview
- Put the rest according Z, F or other layout principle
- Move details somewhere on demand
- Highlight deviations (incidents) automatically
- Guide the user through your sequence

Session evaluation



Event evaluation

