How KNIME uses KNIME

Iris Adä
Marina Kobzeva

Agenda

DatA - Team

Todays Use Case – "KNumbers"
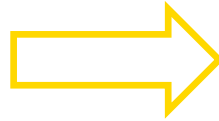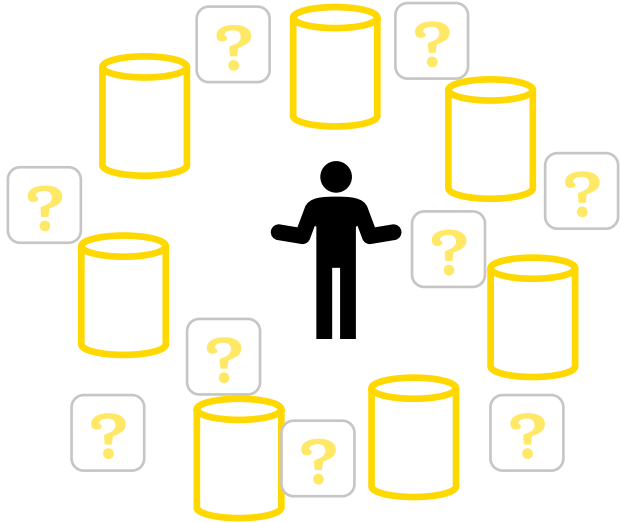
Standardized Reporting

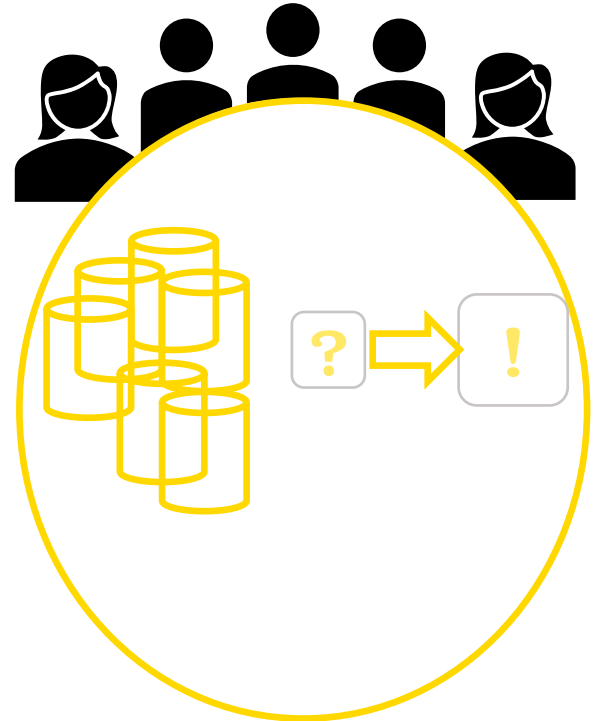Self–Service Analytics

Enabling Others

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Challenges

- More and more data
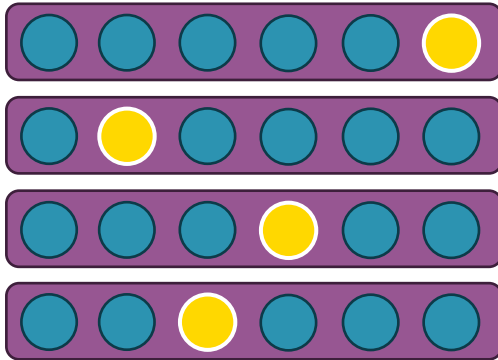- More and more questions
- No clear responsibilities

We need a Data excellence team

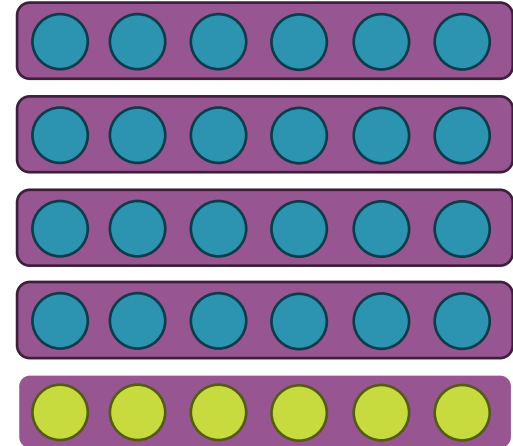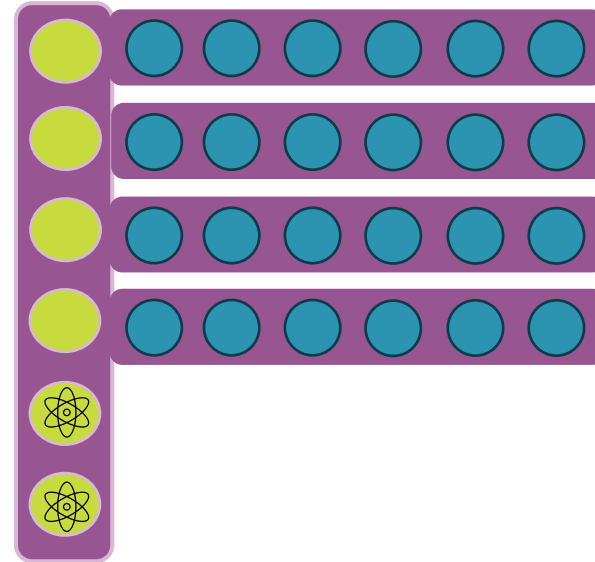# Data Team Setup – Team based vs. practice based

Team Based

Practice based

- Finance Analyst

- Revenue Analyst

- HR Analyst

- Marketing Analyst

DatA Team Setup

- DatA is part of the business teams and its own practice team

- No lone fighters

- Close connection to business via clear business partnering,

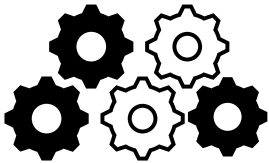- Additional Data Engineering resources, keep our backend strong

DatA -
Short for Data & Analytics
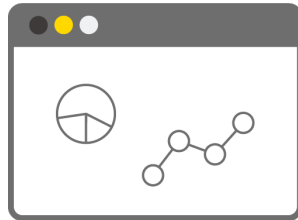
Using DatA Hub for fluid Data Insights

DatA Hub
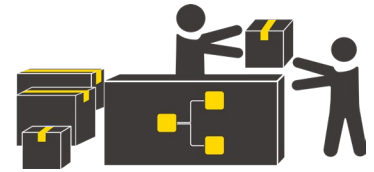
KNIME Business Hub

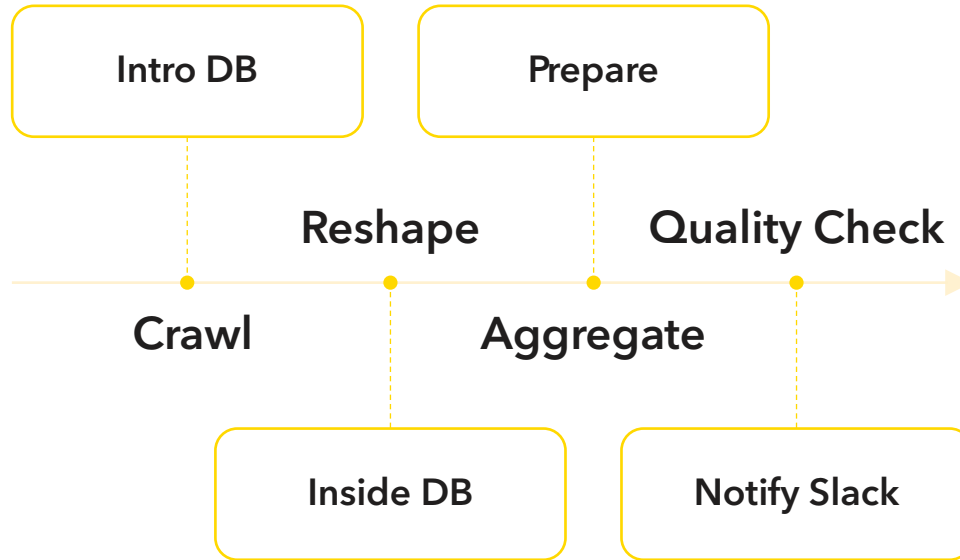| Automation Powerhouse	Standardized Reporting	Interactive Analysis via DatApps	Sharing best practice with components

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Processing Pipelines

- A system of around 200 workflows => Controlled by one Single workflow and schedule

Data Ingestion

- DatA Ingestion
  - Automatically Executed
    - Every 1 Hour
    - Every 24 Hours
      - 10 Executed First (Crawlers, Parsers, ...)
      - 20 Database Restructure
      - 30 Data Wrangling
      - 40 Aggregations
      - 80 Notifications
      - 99 Sanity Checks
      - Inactive
      - long-running
    - Every 2400 Hours
    - Every 6 Hours
  - DatA Ingestion
  - DatA Ingestion Investigation

Schedule your workflow to run automatically at selected times.

Deployment name

Hourly Execution of DatA Ingestion

Version

v223 Updated workflow 'DatA Ingestion' - Mar 15, 2024 10:29 AM

Execution context

5.2.3 DatA Execution Context

Schedule options

Define when the workflow should be executed.

Initial execution

2024-02-15   16 : 20 : 00

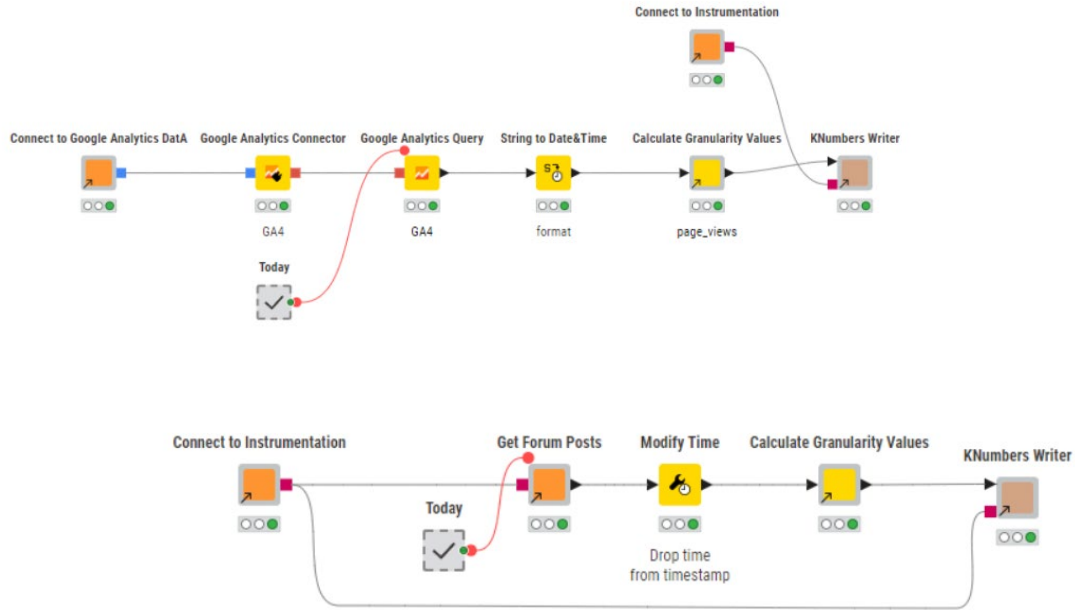☑ Repeat execution

Every   Start times

1   Hours

Schedule ends date

Never   Date

Sounds interesting? We can share this with you.

KNumbers in Database

Called via Data Ingestion

Agenda

DatA - Team

Todays Use Case – "KNumbers"

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KNumbers

- What are the Knumbers?
  - The Knumbers is a summary of around 200 KPIs we track for the full company.
  - They cover everything:
    - from financials, as our Revenue,
    - over HR like Headcount
    - to Evangelism, as the people succeeding in our certification
    - and Marketing, like event attendees.
  - We today will use the Knumbers as one exemplary project what the DatA Team did.

Agenda

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Data Apps Portal

- Roughly 100 DatApps
- Self-Service Analytics

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Todays Use Case – "KNumbers"

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Enabling – Fluidity

- Over time we got more and more tasks.
- Especially one time tasks are time consuming and need a lot of collaboration
- Instead of having requests wait, we are enabling.
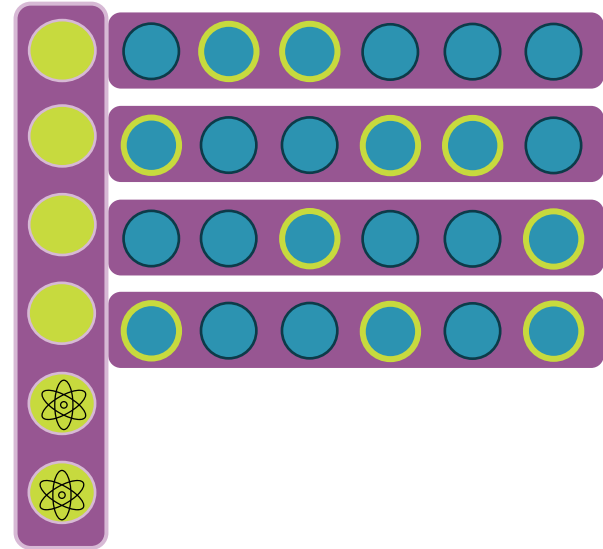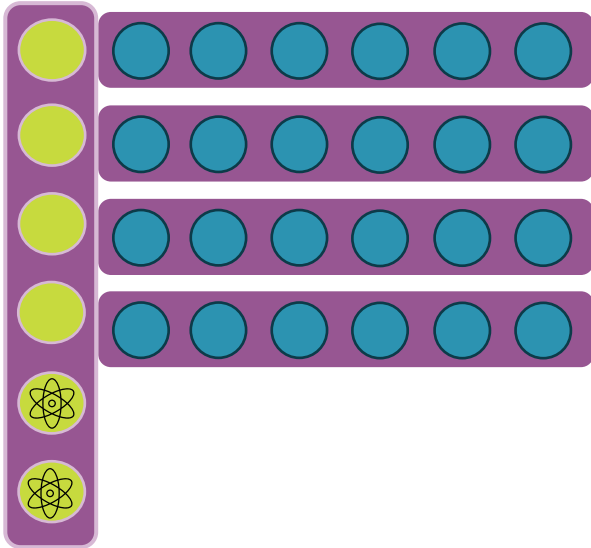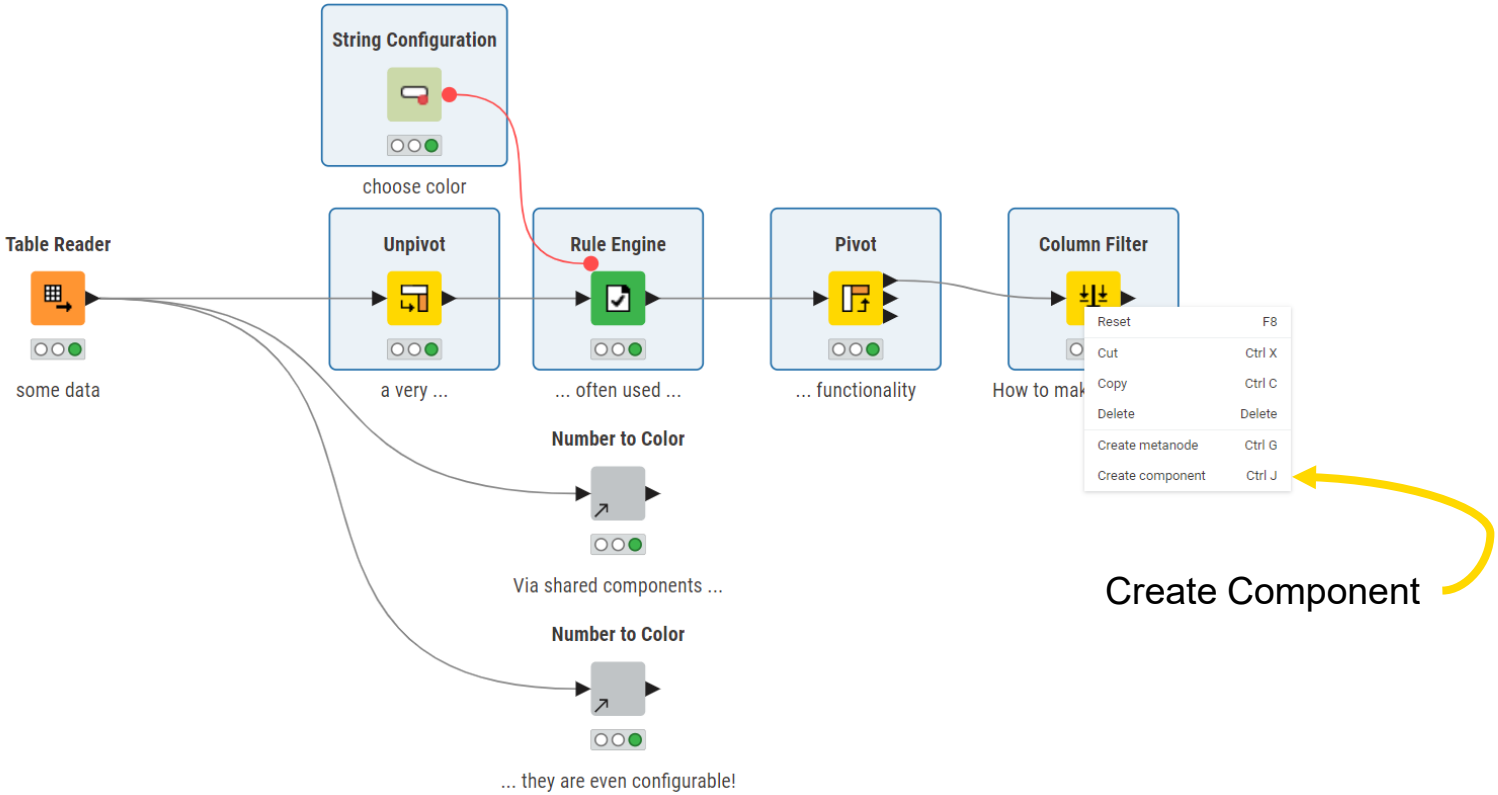
Components (and example workflows)

What is a component?

Create Component

Components

Component
Connect to Instrumentation (Read-only)
Versioned on Jun 13, 2023 1:37 PM

Component
DatA App Header
Draft only Latest edits on Jul 14, 2023 12:15 PM

Component
Get Forum Threads
Versioned on Jun 13, 2023 1:37 PM

Component
Get Event Attendees
Draft only Latest edits on Feb 8, 2024 1:38 PM

Component
DB Extract Datetime Fields
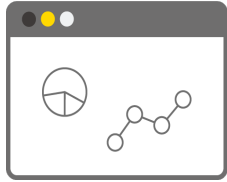**Versioned** on Jun 13, 2023 1:37 PM

KNIME Business Hub

DatA Hub

Automation Powerhouse	Standardized Reporting	Interactive Analysis via DatApps	Sharing best practice with components

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