

# Spark for Java Devs

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# Who am I

- ex system administrator
- ex developer
- ex team lead
- ex data engineer
- developer advocate for big data

Together >14 years in IT



# Who are data engineers?

Responsibilities:

- Build your DWH
- Build your DMP
- Transfer and store your data

As effective and fast as possible

# What is Big Data

- Doesn't fit the single node (or Excel)
- Maybe scaled when growing
- Enough data to make reliable business solutions

## What is the most popular tool in DE?



# What **J(ava | VM)** dev should know

- Lazy sequences (streams, sequences, scala lazy)
- Functional operations
- SQL (or SQL-like)

# Differences in handling of Big and Small data

Big data processing is

- Distributed
- Requires sending large amount of data between nodes
- Is built on map-reduce primitives

# What did we learn?

- Spark is like streams
- Spark supports joins
- Spark allows us to work with big data in the same manner as with small
- There are 3 APIs in Spark:
  - Datasets (typed)
  - Dataframes (untyped)
  - SQL