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Big Data, Small World

- Nupoor Jalindre

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Agenda

- Introduction to Big Data
- The current state and future of Big Data
- Evolution of Technical Communication
- Adopting Big Data in our lives
  - Database Concepts
  - Writing Style
  - APIs
  - Operating Systems
  - Some tools
- Breaking Stereotypes

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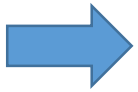
Agenda



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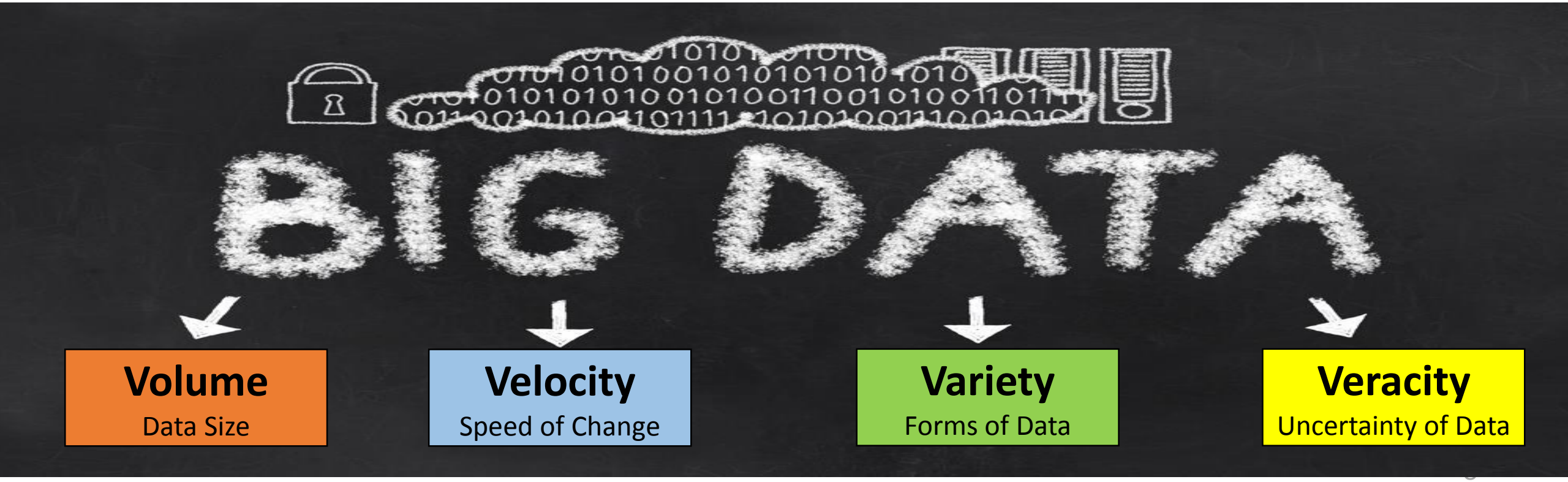
Origin of Big Data

Big data is high-volume, high-velocity and high-variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision making.

~ *Gartner*

Big Data therefore refers to our ability to make use of the ever-increasing volumes of data.



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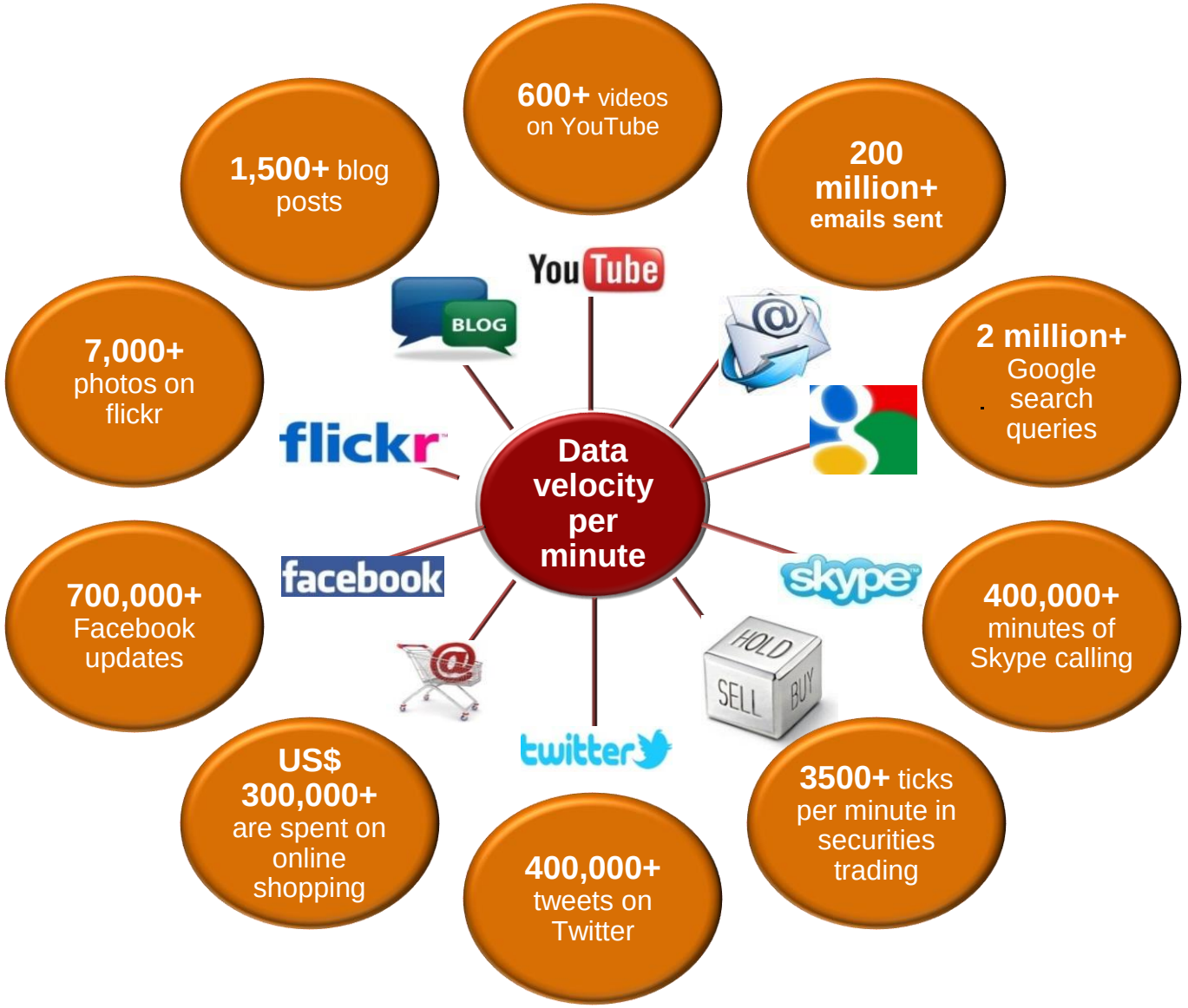
Velocity of Big Data



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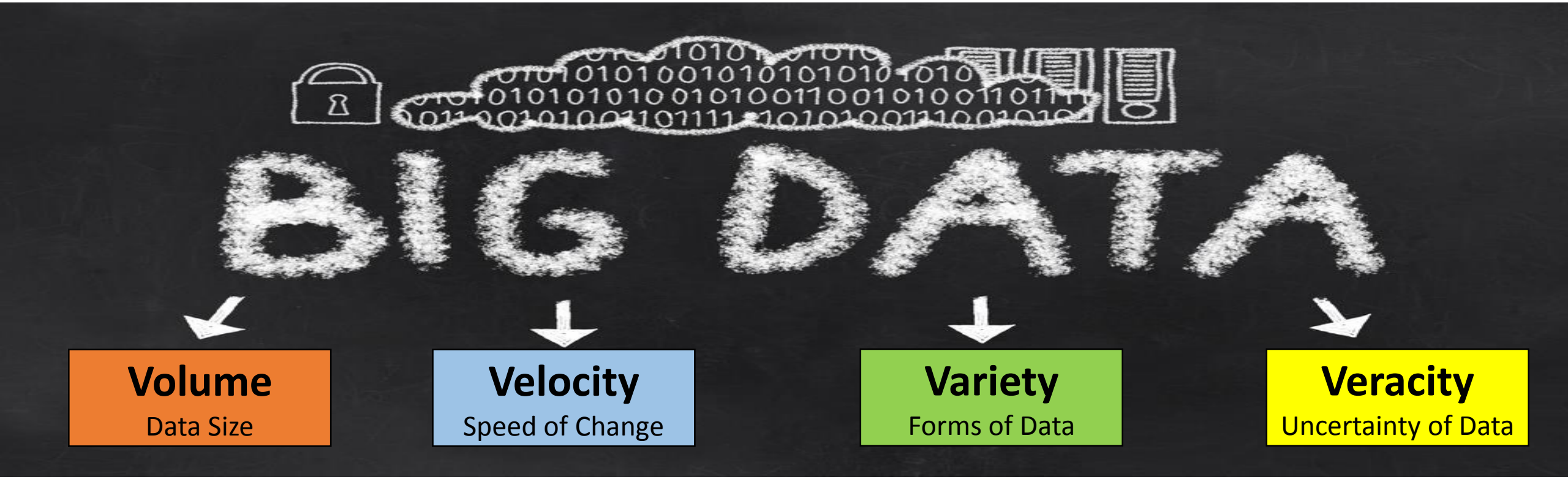
Origin of Big Data



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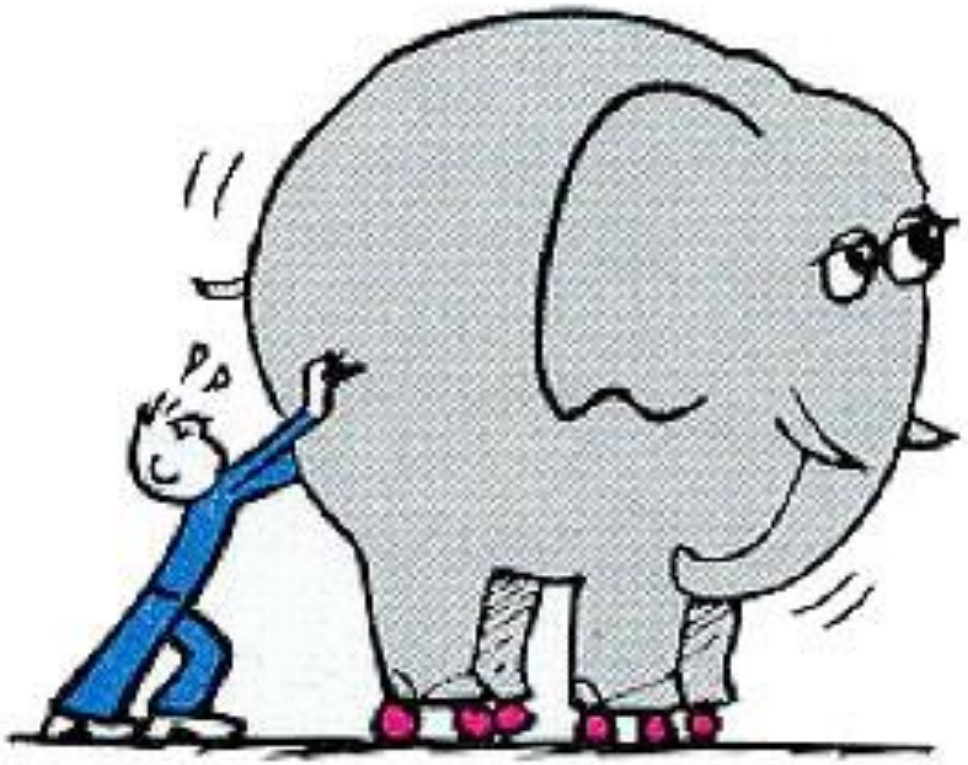
Types of Big Data

Data at Rest



Data in Motion

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Applications of Big Data

Financial Industry

Automobile Industry

Supply Chain Industry

Retail Industry

Medical Science

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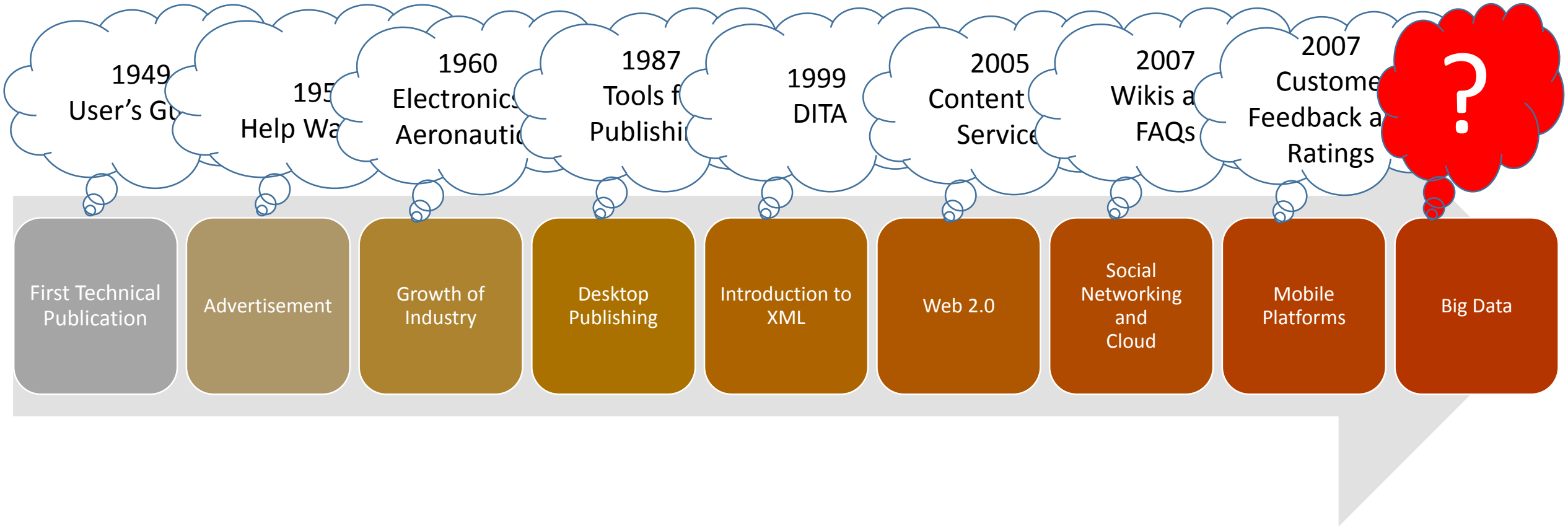
Evolution of Technical Communication



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- Introduction to Big Data
- The current state and future of Big Data
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- Adopting Big Data in our lives (Skills required)
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  - API documentation
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Big Data and Technical Communication : Database Concepts

Not only SQL

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- Where did Hadoop come from?
- What problems can Hadoop solve?
- How is Hadoop architected?
- What is HDFS?

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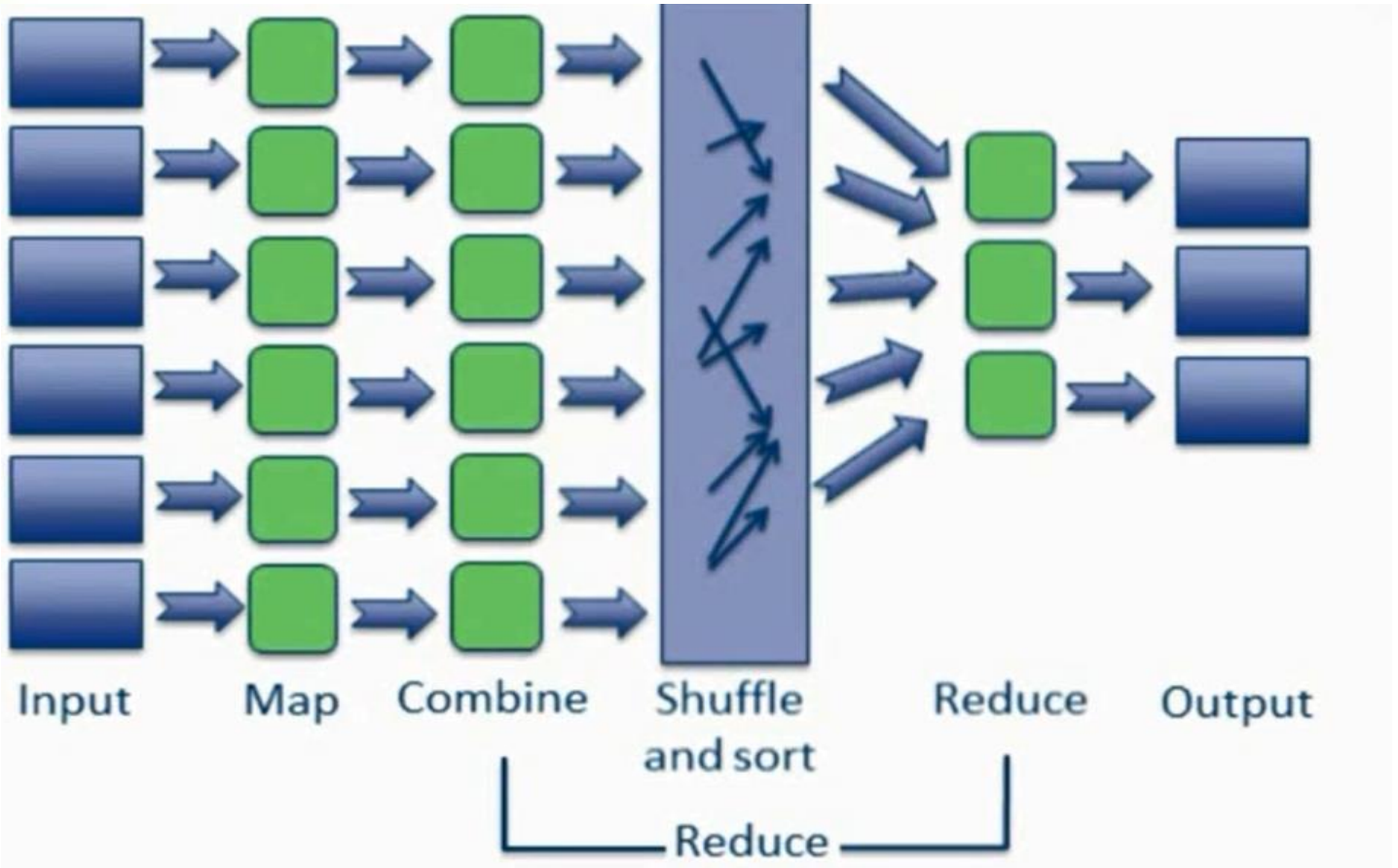

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- Developed at facebook
- Follows the **BigTable Data Model** - column oriented
- Follows the **Tunable Consistency** model
- Open Source
- Implemented in Java

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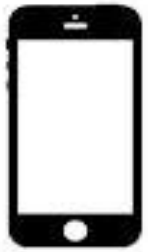
Why API? Who uses API?

WebApps

Iphone



Android

Desktop

Wearable Tech

youNameIt

11,000+ APIs
(ProgrammableWeb)
5x to 10x growth in next 5 years
(TechCrunch)

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Target audience? Developers.

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Classification of APIs

Web service APIs
SOAP
XML-RPC and JSON-RPC
REST

WebSocket APIs

Library-based APIs
JavaScript
TWAIN

Class-based APIs (object orientation)
Java API
Android API

OS functions and routines
Access to file system
Access to user interface

Object remoting APIs
CORBA
.NET Remoting

Hardware APIs
Video acceleration
Hard disk drives
PCI buses

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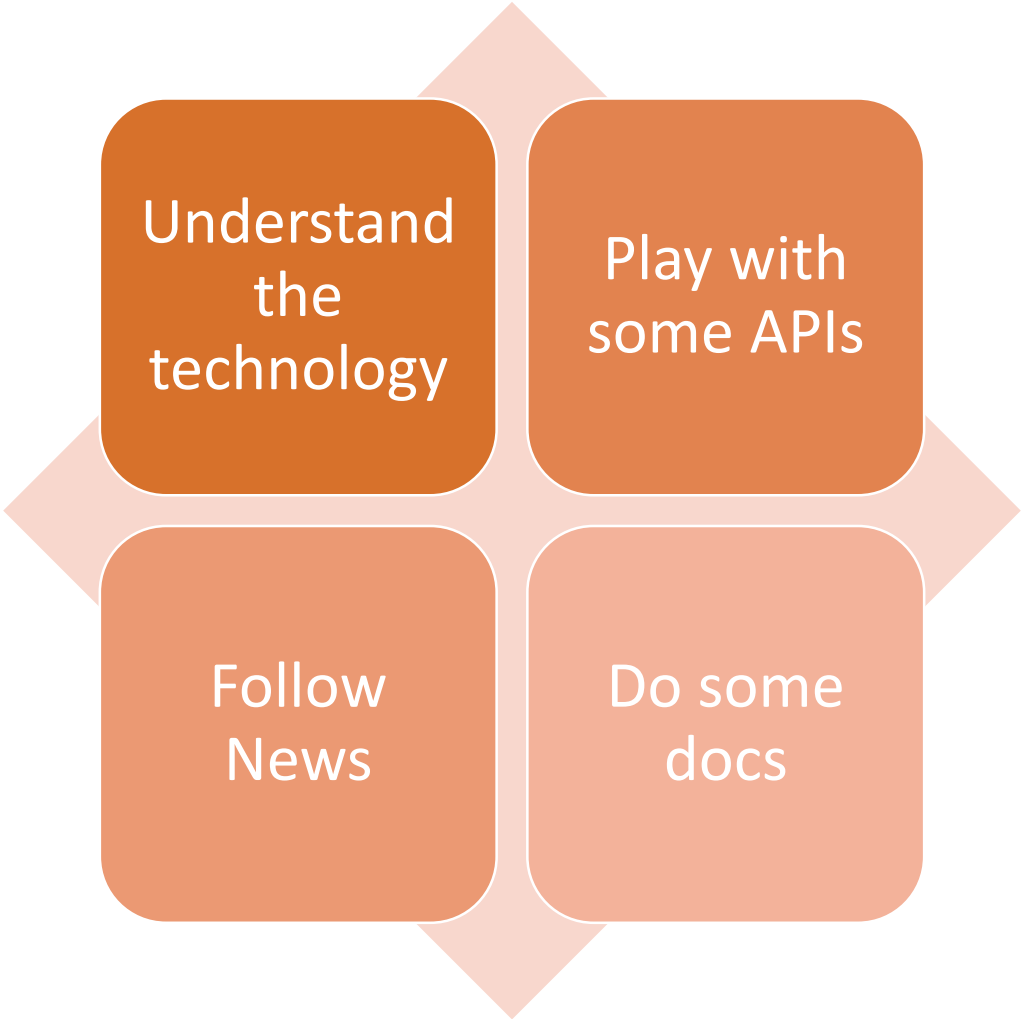
How to get started with API Documentation



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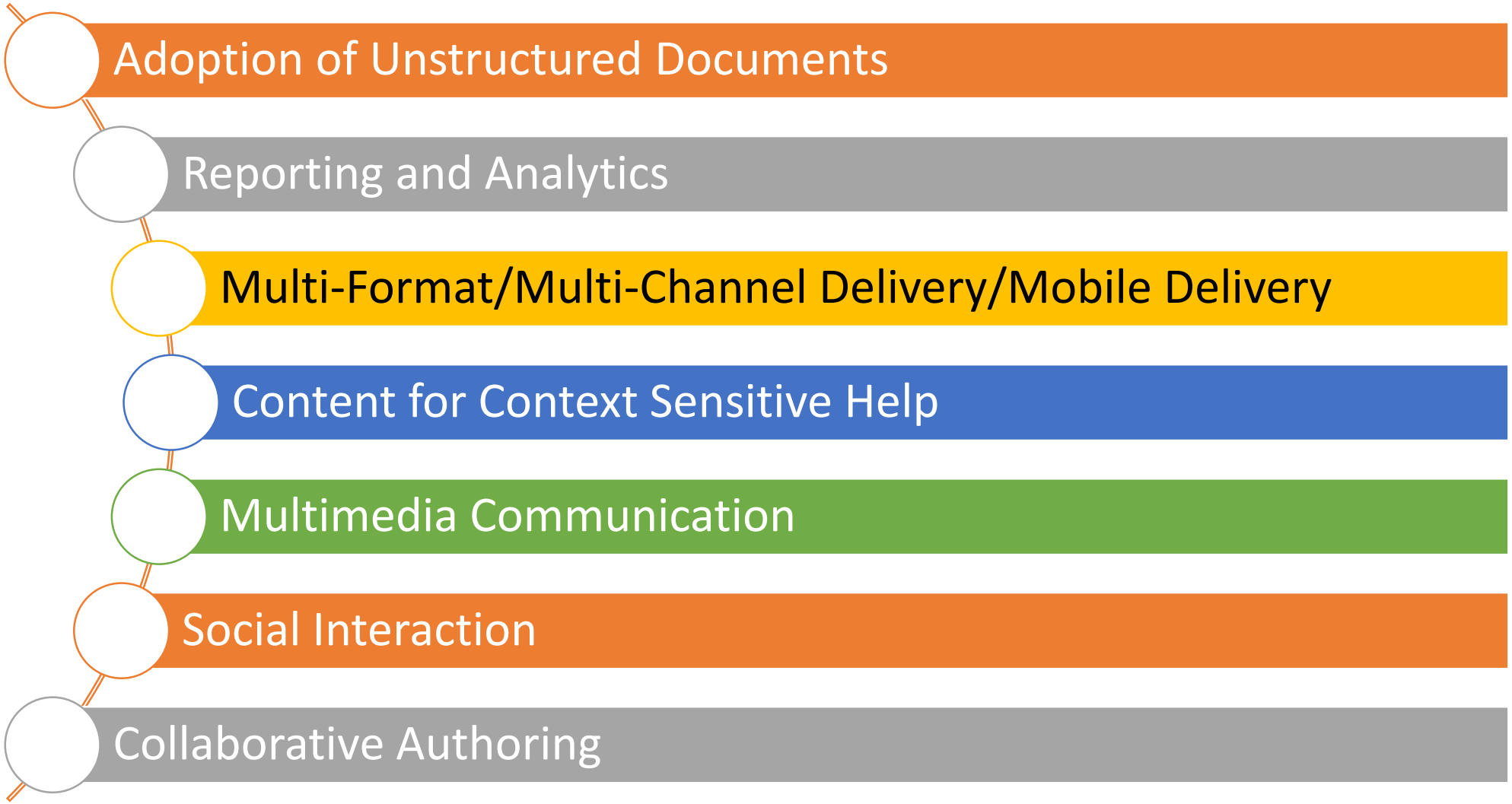
Big Data and Technical Communication : Style



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TIBCO | Big Data and Technical Communication : Terminology

Building up a Big Data glossary

http://data-informed.com/glossary-of-big-data-terms/

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Breaking Stereotypes

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Breaking Stereotypes

- ✓**Correlation replacing theory?**
- ✓**Unstructured Approach**
- ✓**Process ⇩ Workflow ⇧**
- ✓**Implementation Based Documentation**

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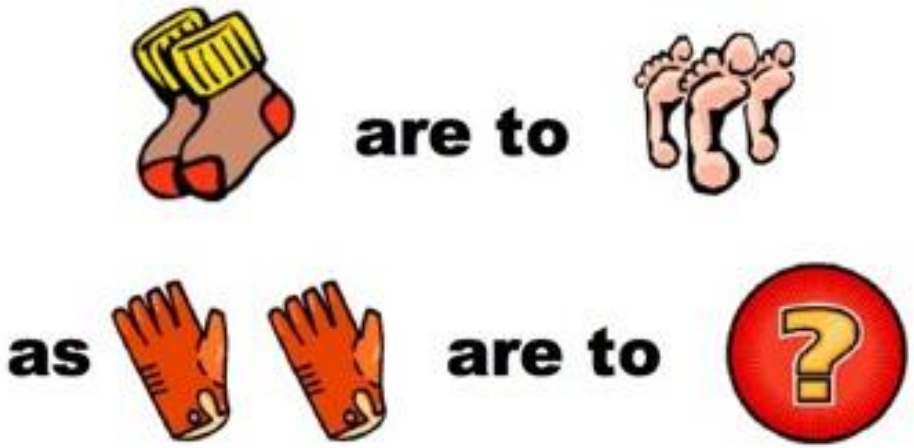
In Closing



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Thank you

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- Big Data Glossary - O'Reilly Media
- Viktor Mayer-Schonberger & Kenneth Cukier - Big Data- A Revolution That Will Transform How We Live, Work, and Think

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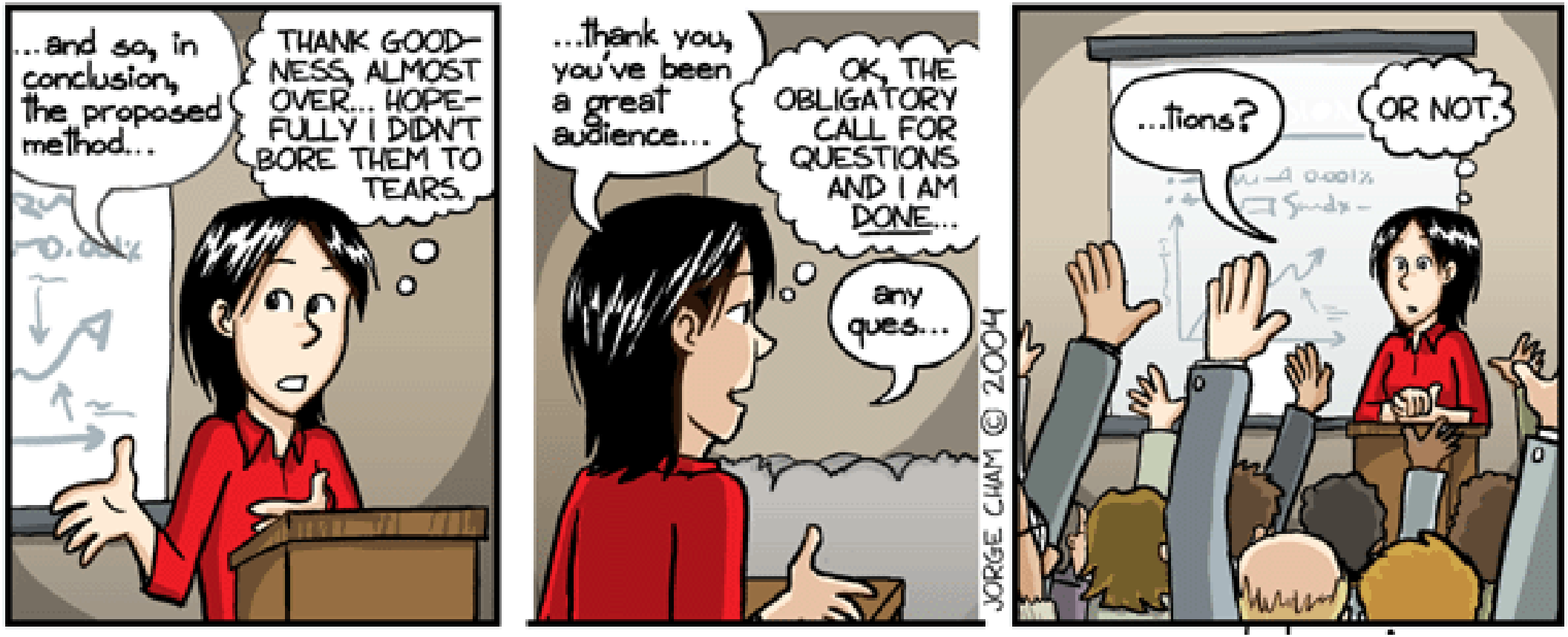
Questions



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