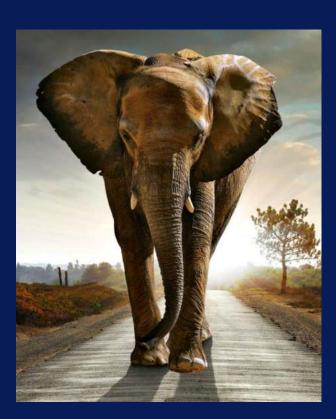
Characteristics of Big Data:

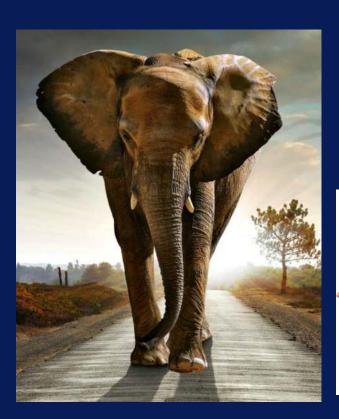
Volume

After this video you will be able to...

 Describe what volume of big data means and why you should care about it

Explain why data volume is not just about storage







Every minute...



204 Million emails

Every minute...



204 Million emails

200,000 photos

facebook 1.8 Million likes

Every minute...



204 Million emails

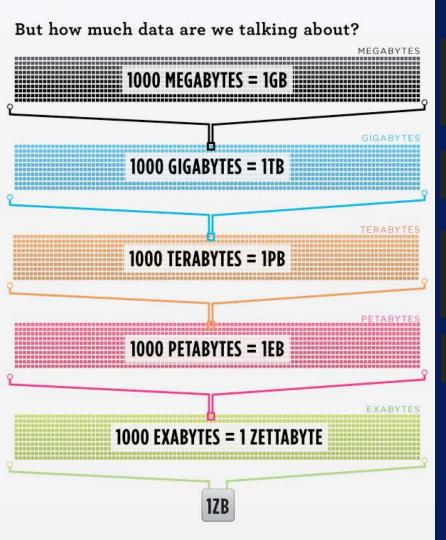
200,000 photos

facebook 1.8 Million likes



1.3 Million video views

72 hours of video uploads



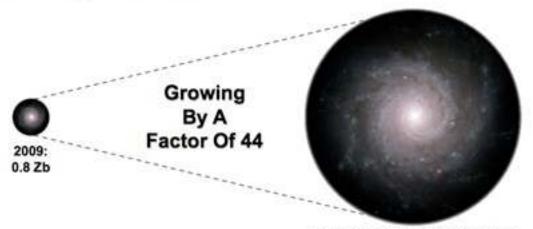
100 MBs ~= couple of volumes of Encyclopedias

A DVD ~= 5 GBs

1 TB ~= 300 hours of good quality video

LHC ~= 15 PBs a year

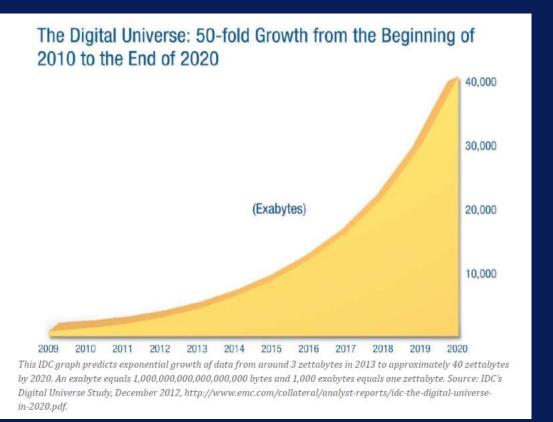
The Digital Universe 2009-2020



2020: 35.2 Zettabytes



Exponential data growth!



Relevance of Volume for Us?



More data = Better safety



Volume



Business Insight

Challenges: Storage and more...

Storage

Distribution

Processing

Data acquisition

Retrieval

Processing Big Data



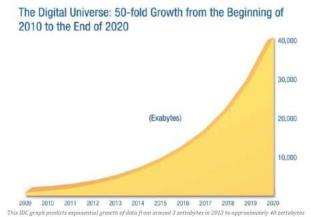


Challenges

Storage

Access

Processing



This IDC graph predicts exponential growth of data from around 3 settabytes in 2013 to approximately 40 settabyte by 2020. An exabyte equals 1,000,000,000,000,000,000 bytes and 1,000 exabytes equals one zettabyte. Source: IDC's Digital Universe Study. December 2012, http://www.emc.com/collateral/unalyst-reports/idc-the-digital-universein-2020.pdf