

# Big Data For Dummies

## Part 1 : Getting Started with Big Data

In this part

- Trace the evolution of data management
- Define big data and its technology components
- Understand the different types of big data
- Integrate structured and unstructured data.
- Understand the difference between real-time and non-real-time data
- Scale your big data operation with distributed computing

### Chapter 1 : Grasping the Fundamentals of Big Data

In this Chapter

- Looking at a history of data management
- Understanding why big data matters to business
- Applying big data to business effectiveness
- Defining the foundational elements of big data
- Examining big data's role in the future

### Chapter 2 : Examining Big Data Types

In this Chapter

- Identifying structured and unstructured data
- Recognizing real-time and non-real-time requirements for data types
- Integrating data types into a big data environment

Although data management has been around for a long time, two factors are new in the big data world:

- Some sources of big data are actually new like the data generated from sensors, smartphone, and tablets
- Previously produced data hadn't been captured or stored and analyzed in a usable way. The main reason for this is that the technology wasn't there to do so. In other words, we didn't have a cost-effective way to deal with all that data.

#### Defining Structured Data

##### Exploring sources of big structured data

- **Computer- or machine-generated:** Machine-generated data generally refers to data that is

created by a machine without human intervention.

- **Human-generated:** This is data that humans, in interaction with computers, supply.

## Understanding the role of relational databases in big data

## Defining Unstructured Data

### Exploring sources of unstructured data

Here are some examples of machine-generated unstructured data:

- **Satellite images:** This includes weather data or the data that the government captures in its satellite surveillance imagery.
- **Scientific data:** This includes seismic imagery, atmospheric data, and high energy physics.

The following list shows a few examples of human-generated unstructured data:

- **Text internal to your company:** Think of all the text within documents, logs, survey results, and e-mails. Enterprise information actually represents a large percent of the text information in the world today.
- **Social media data:** This data is generated from the social media platforms such as YouTube, Facebook, Twitter, LinkedIn, and Flickr.
- **Mobile data:** This includes data such as text messages and location information.
- **Website content:** This comes from any site delivering unstructured content, like YouTube, flickr, or Instagram.

### Understanding the role of a CMS in big data management

- CMS<sup>1)</sup>
- AIIM<sup>2)</sup> : [www.aiim.org](http://www.aiim.org)
- ECM<sup>3)</sup>

## Looking at Real-Time and Non-Real-Time Requirements

- Monitoring for an exception with a new piece of information, like fraud/intelligence
- Monitoring news feeds and social media to determine events that may impact financial markets, such as a customer reaction to a new product announcement
- Changing your ad placement during a big sporting event based on real-time Twitter streams
- Providing a coupon to a customer based on what he bought at the point of sale

- [Machine Learning](#)

<sup>1)</sup>

Content management systems

<sup>2)</sup>

Association for information and Image Management

<sup>3)</sup>

Enterprise Content Management

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