

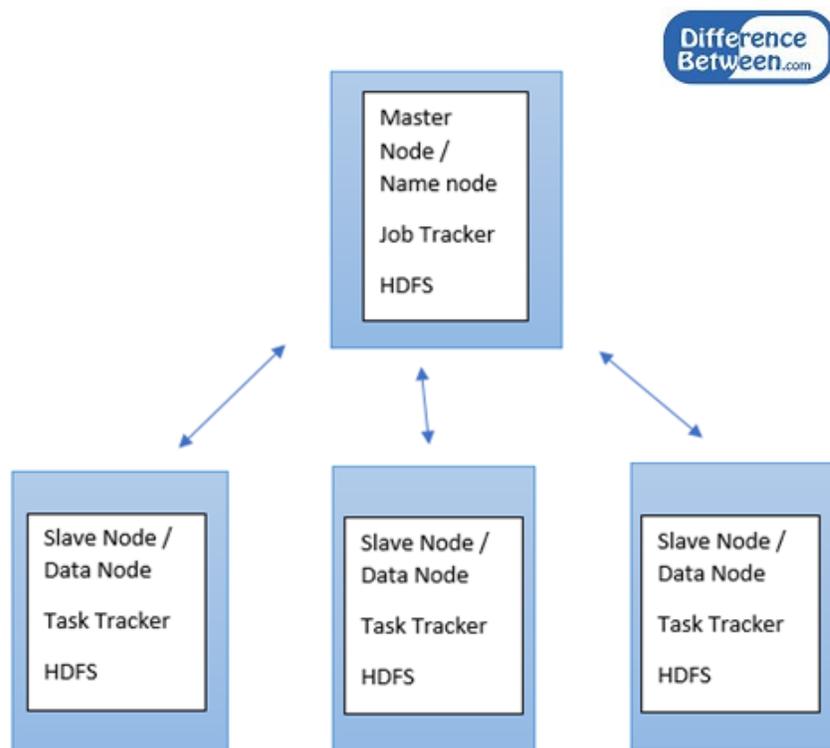


accurate and continuous in those situations. It is a considerable factor to make real-time decisions. Another main property is variety, which describes the type of data. Data can take text format, [video](#), audio, [image](#), [XML format](#), sensor data, etc.

## What is Hadoop?

It is an [open source](#) framework by the [Apache](#) Software Foundation to store Big data in a distributed environment to process parallel. It has an effective distribution storage with a data processing mechanism. Hadoop storage system is known as Hadoop Distributed File System (HDFS). It divides the data among some machines. Hadoop follows master-slave architecture. The master node is called Name-node and slaves are called Data-nodes. Data is distributed among all Data-nodes.

The main [algorithm](#) which is using to process data in Hadoop is called Map Reduce. Using map-reduce programs, jobs can be sent to slave nodes. Default language to write map-reduce programs is [Java](#), but other languages can also be used. Data-Nodes or slave nodes will perform the analyzing task and sends the result back to the master-node/name-node. Master-node/name-node has a Job Tracker to run map reduce jobs on slave nodes. Slave-nodes/data-nodes have a Task Tracker to complete the data analyzing and to send the result back to the master node.



**Hadoop Architecture**

Hadoop has some advantages. It reduces cost, data complexity and increases the efficiency. It is easy to add another machine to the Hadoop cluster.

## What is the Similarity Between Big data and Hadoop?

- Both Big Data and Hadoop are related to large sums of data.

## What is the Difference Between Big Data and Hadoop?

Big Data vs Hadoop	
Big Data is a large collection of complex and variety of data which is hard to store and analyses using traditional storage methods.	Hadoop is a software framework to store and process big data effectively and efficiently.
Significance	
Big Data does not have much meaning.	Hadoop can make Big data more meaningful and is useful for machine learning and statistical analysis.
Storage	
Big Data is hard to store as it consists of a variety of data such as structured and unstructured data.	Hadoop uses Hadoop Distributed File System (HDFS) which allows storing a variety of data.
Accessibility	
Accessing Big Data is hard.	Hadoop allows to access and process Big Data faster.

## Summary - Big Data vs Hadoop

Data is growing rapidly. Government and Business organizations all are gathering data. Analyzing data is extremely valuable. A single computer is not enough to store a large amount of data. This large quantity of complex data is called Big data. Therefore, Big data can be distributed among some nodes using Hadoop. The difference between Big Data and Hadoop is that Big data is a large amount of complex data and Hadoop is a mechanism to store Big data effectively and efficiently.

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