**SPARK**

In 2009 – there is a project Called AmpLab , in the university of berkely there is a research project called amplab(live today also) in this project people try to create cluster manager(As yarn comes in Hadoop version 2 in 2012) so in 2009 there is no yarn, people were using Hadoop 1.

Some folks of berkely try to create cluster manager and they create a project that is **mesos ,** they were doing some r&d and create cluster manager and called it **mesos**

Yarn is popular because it come along with Hadoop, you download Hadoop and yarn come along with

But if you want to use mesos you have download it separately, as Hadoop can run on top of mesos also.

In order to test the power of mesos first they run some map reduce program and it was running fine then they why cannot use some diff programming framework and they created something that is called spark, so spark was created actually to test mesos and spark was compeletly in memory execution and they found mesos as better for cluster manager, no focus goes on spark that much

In 2010/ 2011 people thought that spark is good, as it runs faster compared with map reduce, people though that we develop spark more and development started. In 2012 spark become an apache project so they contributed to apache and said that we have created a new product, make it open source and it is like a map reduce but its better than map reduce.

As spark become popular in 2015, the people who develop spark in 2012 will built there company called **DATABRICKS .**

**Spark is an independent project which does not require Hadoop but mostly you will see it on top of hadoop**