PROGRAMMING MODELS FOR BIG DATA:			
1. Support Big Data Operations			
- split volumes of data			
- Access data fast			
- Distribute computations to nodes			
2. Handle fault Tolerance			
- Replicate Data Partitions			
- Recover files when needed			
3. Enable adding more Racks/Resources			
4. optimized for specific doctor types			
- Document, Table, key-Value,			
Graphs, Multimedia, etream.			
MAP REDUCE			
<b>↓</b>			
A PROGRAMMING MODEL FOR BIG DATA			
<b>\psi</b>			
MANY IMPLEMENTATIONS			

THE HADOOP ECOSYSTEM
a suite strough
HDFS: Hadoop Distributed File System , fault tolerance
yahoo yahoo
Yarn: Flexible scheduling and resource management
MapReduce: Programming model that simplifies
Google paraille computing
map → apply()
Reduce > summartze ()
H218 : 501 - 706 a company
Pig: Dataflow scripting  Hive: SQL-Rike queries
Giraph: built for processing large scale graphs efficiently
Street was \$1 to a serious of the special and the
Stacebook uses it to analyse the social graphs of
Storm 7
Flink J
used in facebook's messaging platform
HBase 7-Nosel for non-files
- Key-values
- Sparse tables
MongoDB _
2 mated at facebook

Zookeeper:	for management	wested by
	- synchronization	Youhoo to wrangle
	- wnfigeration	services named
	- high availability	after animals
	0	