

- [Point] Sql
- [Point] NoSql
- [Point]
- [Point]

, ElemeFe , ().

Mysql

SQL (Structured Query Language) , Mysql

attr	MyISAM	InnoDB
Locking	Table-level	Row-level
designed for	need of speed	high volume of data
foreign keys	× (DBMS)	✓ (RDBMS)
transaction	×	✓
fulltext search	✓	×
scene	lots of select	lots of insert/update
count rows	fast	slow
auto_increment	fast	slow

• [MYSQL: INNODB MYISAM?](#)

[mysql](#) . :

Mongodb

“ Monogdb (/) ?

- , driver (30s)
- Monogdb
- (connection idle time)
- fd (ulimit)
- mongodb ()
- etc...

other

populate

aggregate

pipeline

Cursor

Replication

“ M/S, M/M ?

:

	Backups	M/S	MM	2PC	Paxos
Consistency	Weak	Eventual		Strong	
Transactions	No	Full	Local	Full	
Latency	Low			High	
Throughput	High			Low	Medium
Data loss	Lots	Some		None	
Failover	Down	Read only	Read/write		

Google App Engine co-founder Ryan Barrett 2009 google.com
<http://www.youtube.com/watch?v=srOgpXECblk> [Transaction Across DataCenter](#)

, Master/Slave Master/Master .

attr	Master/Slave	Master/Master
	Eventually	DNS Amazon S3 Google

		/

query DB , / . MySQL MongoDB .

+ . M/S , Master , Slave . , , .

“ ? ?

- A
- A
- A
- B
- B
- B

, 6 , , , A B , , ---- .

- 1
- 2
- 3

, ()/ (/) .

Node.js Mongoddb , .

sql , , " " ()

- undo/redo log.....
- “ ” “ ”
- “ ” “ ” “ ” “ ” Global
- “ ” “ ” “ ” “ ” Global Transactor

:

- /
- commit/fallback “ ”

“

redis memcached ?

attr	memcached	redis
struct	key/value	key/value + list, set, hash etc.
backup	×	✓
Persistence	×	✓
transcations	×	✓
consistency	strong (by cas)	weak
thread	multi	single
memory	physical	physical & swap

- zookeeper
- kafka
- storm
- hadoop
- spark

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