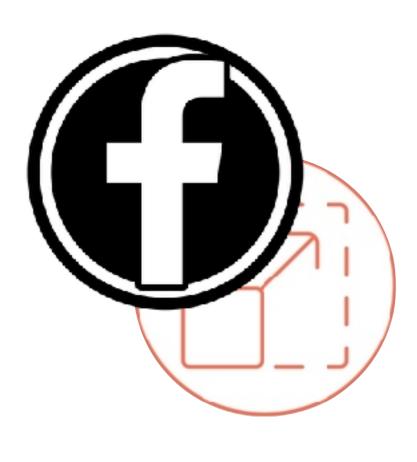
### **SCALABILITY**

## FACEBOOK

#### **NEWS FEED**





### SCALABILITY NEWSFEED

PROBLEM & SOLUTIONS



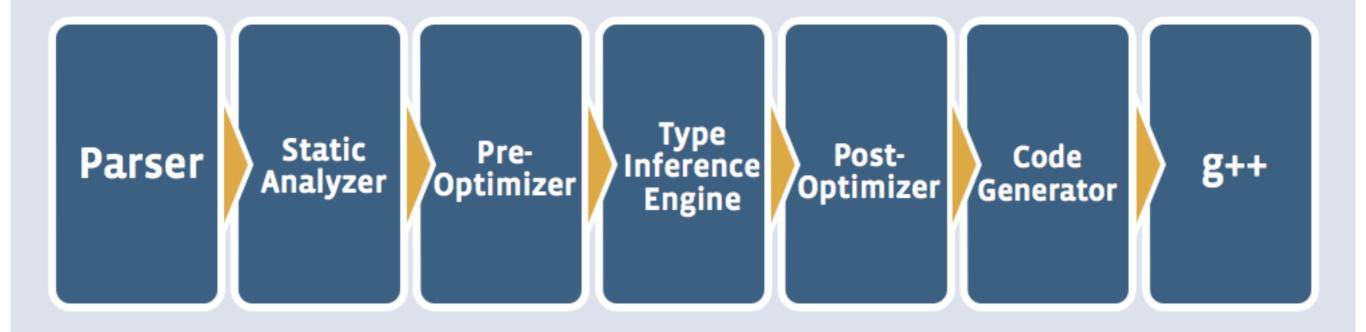
#### 400 million unique home pages

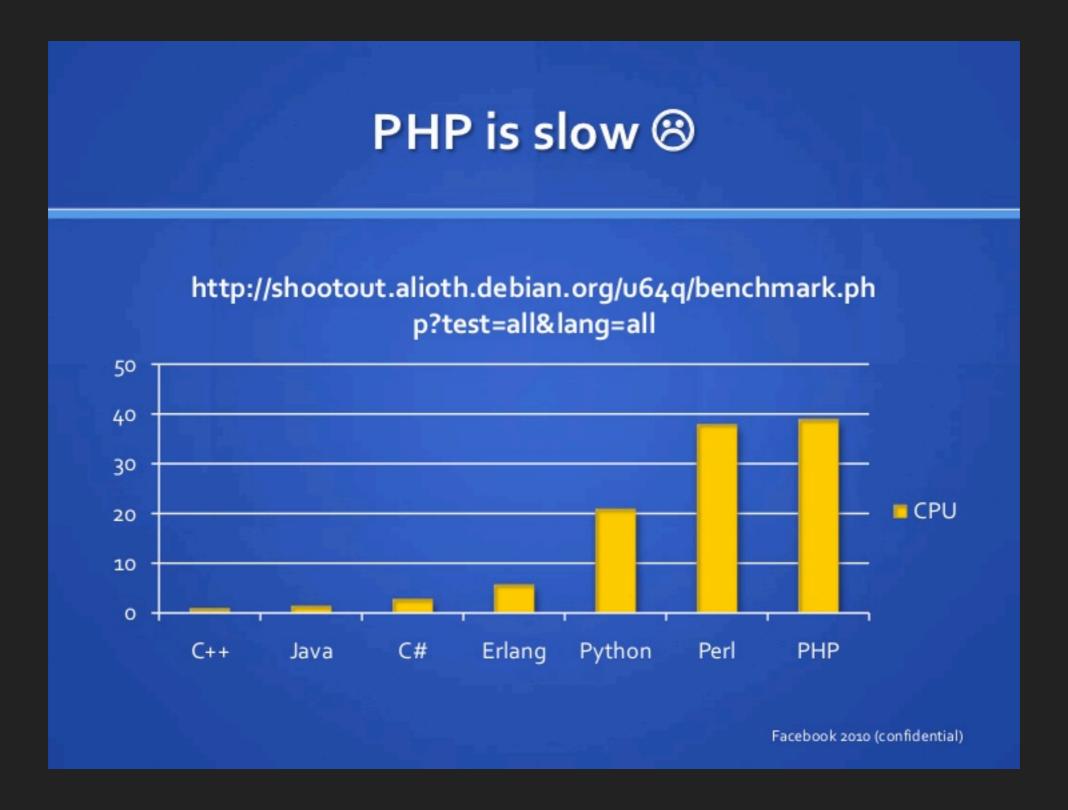
# Scaling Facebook: Interconnected data Felicia Bob Brian

### HIPHOP!



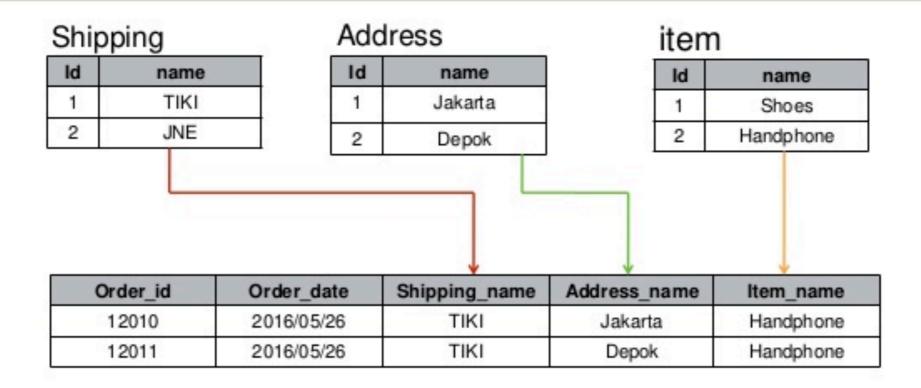
### HipHop for PHP transformation process





### DENORMALIZATION!

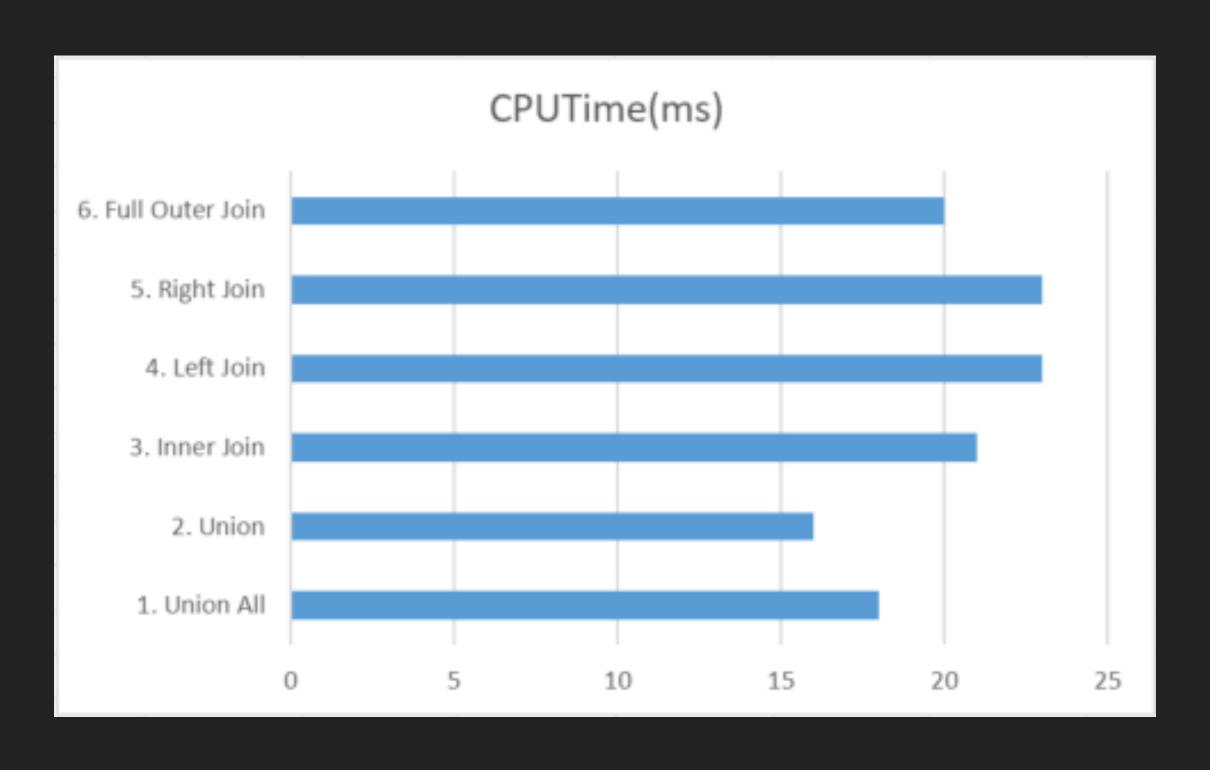
### Denormalization table



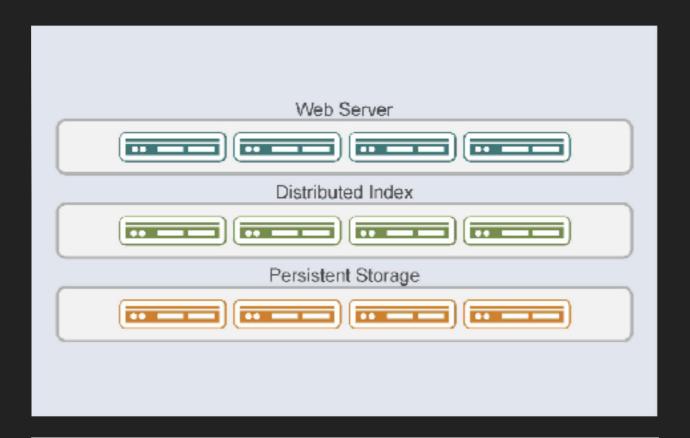
Still, denormalization brings the danger of update anomalies back to the database.

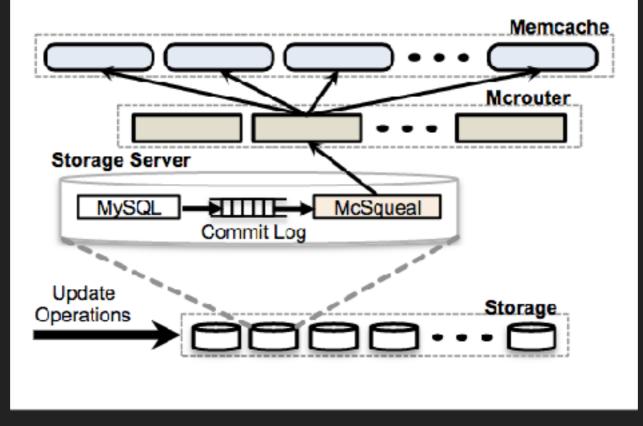
Therefore, you have to do it deliberately. You should document any denormalization thoroughly.

#### **DECREASE JOIN OVERHEAD**

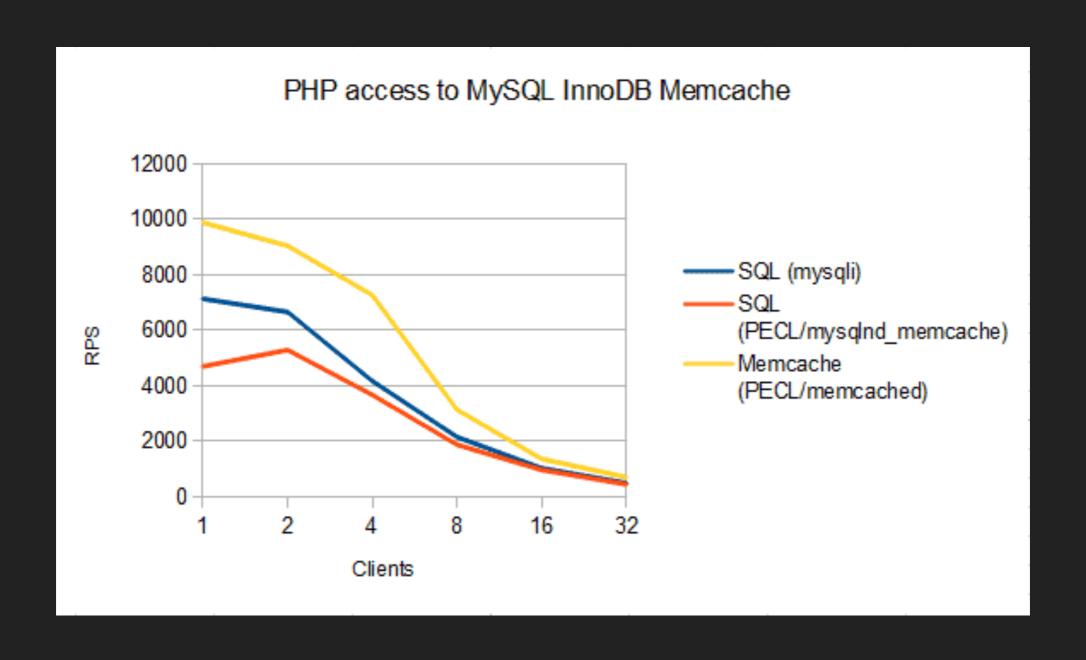


### MEMCACHE!

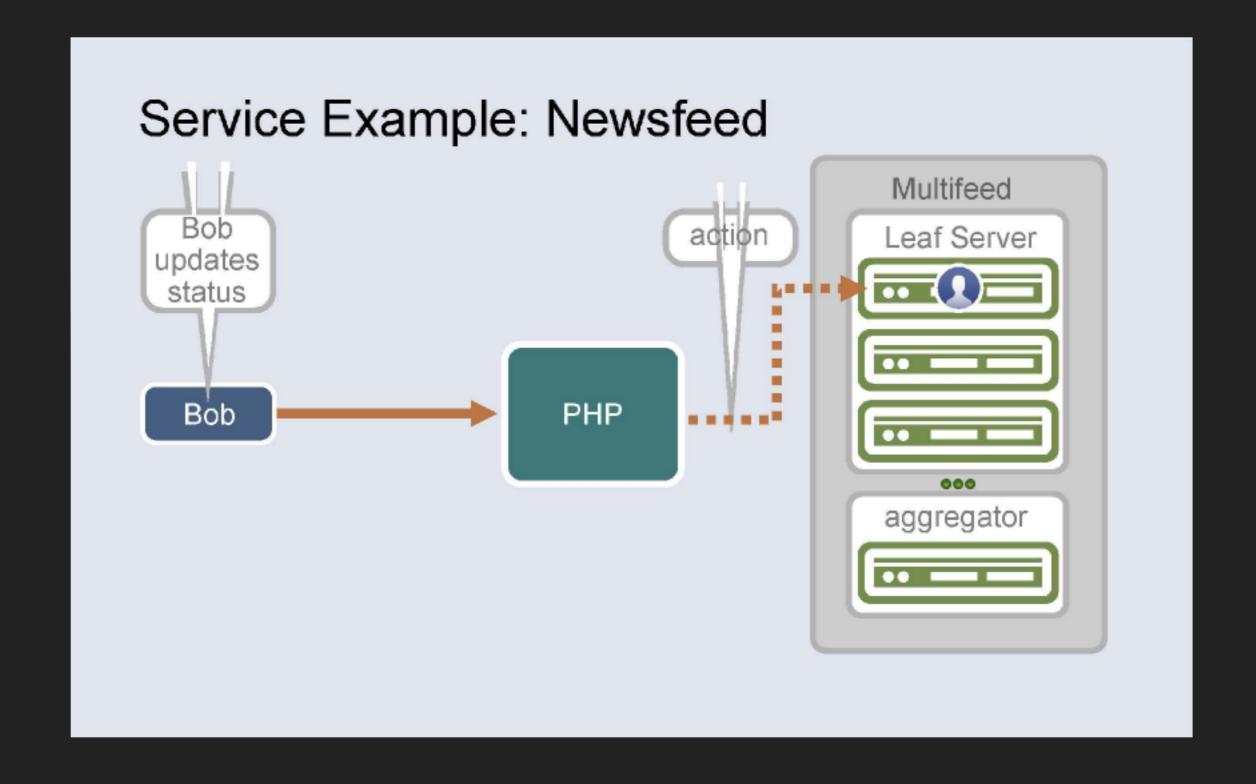


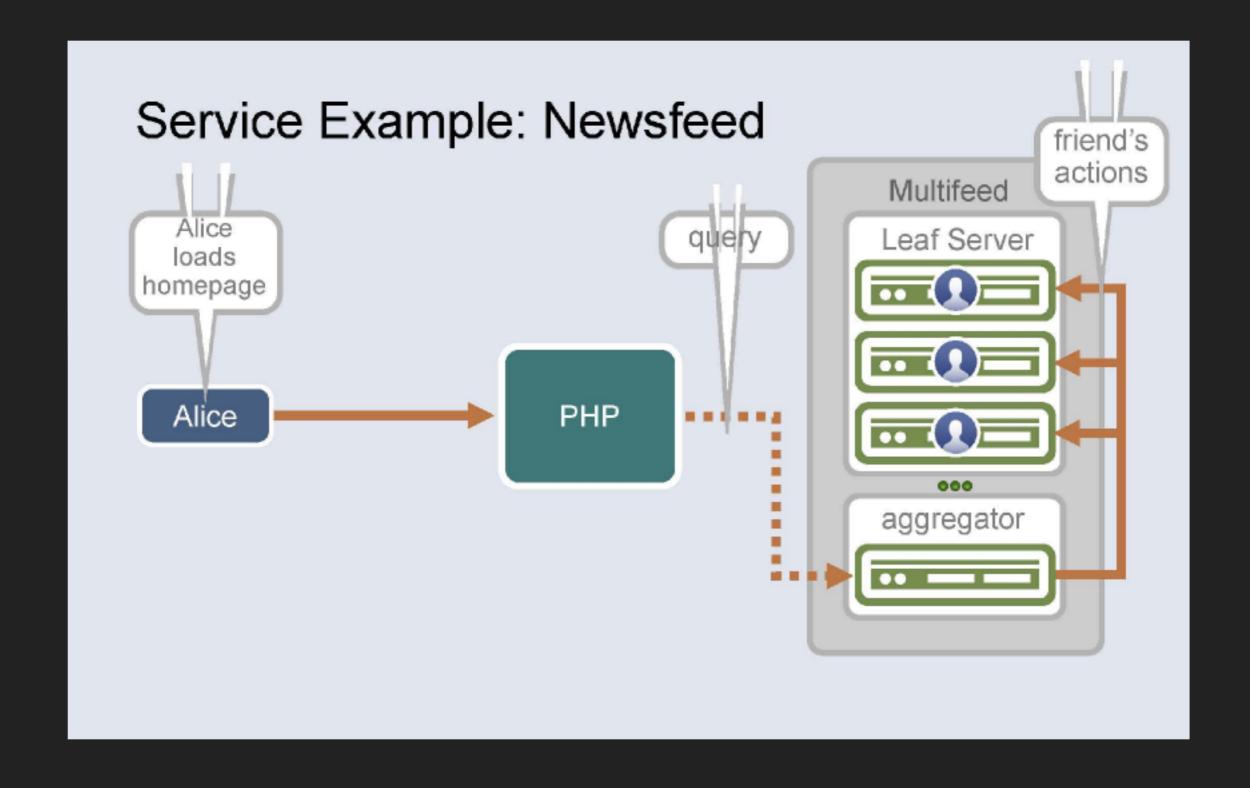


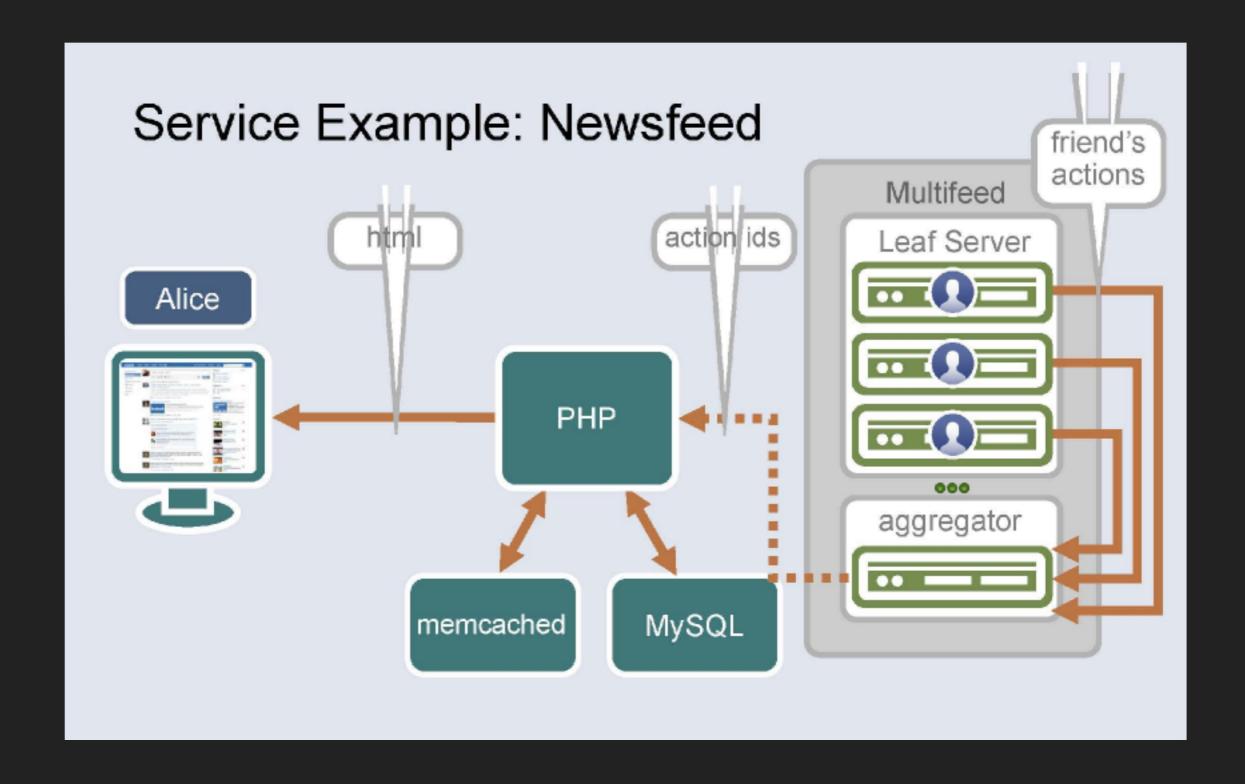
#### **FASTER!**

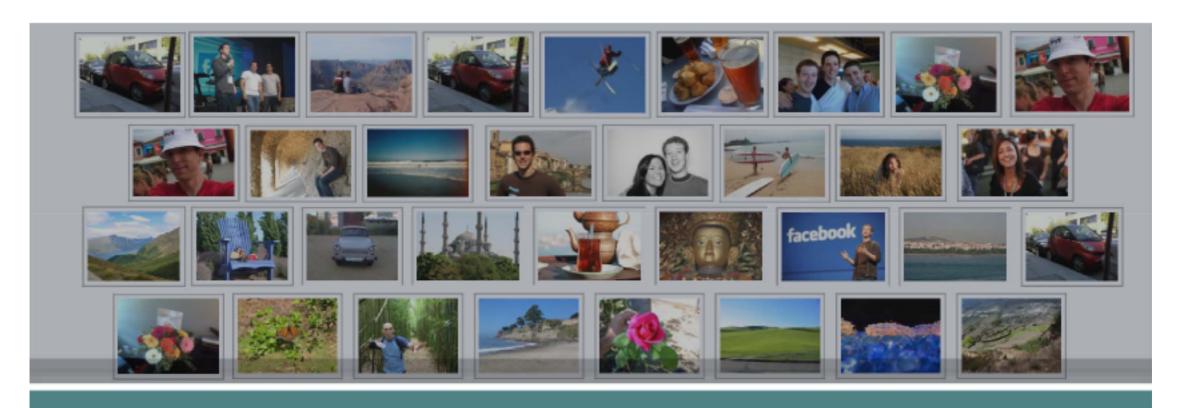


# DISTRIBUTED VIRTUAL FEED STORAGE!









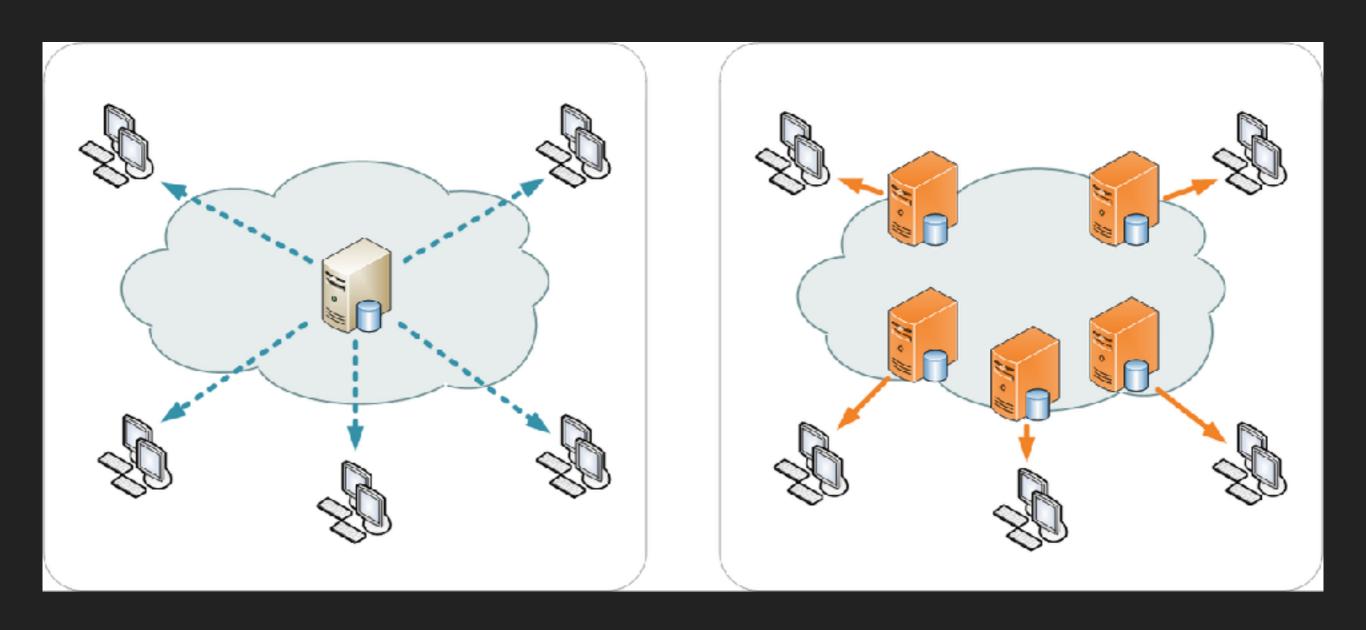
### Over 3 billion photos uploaded each month



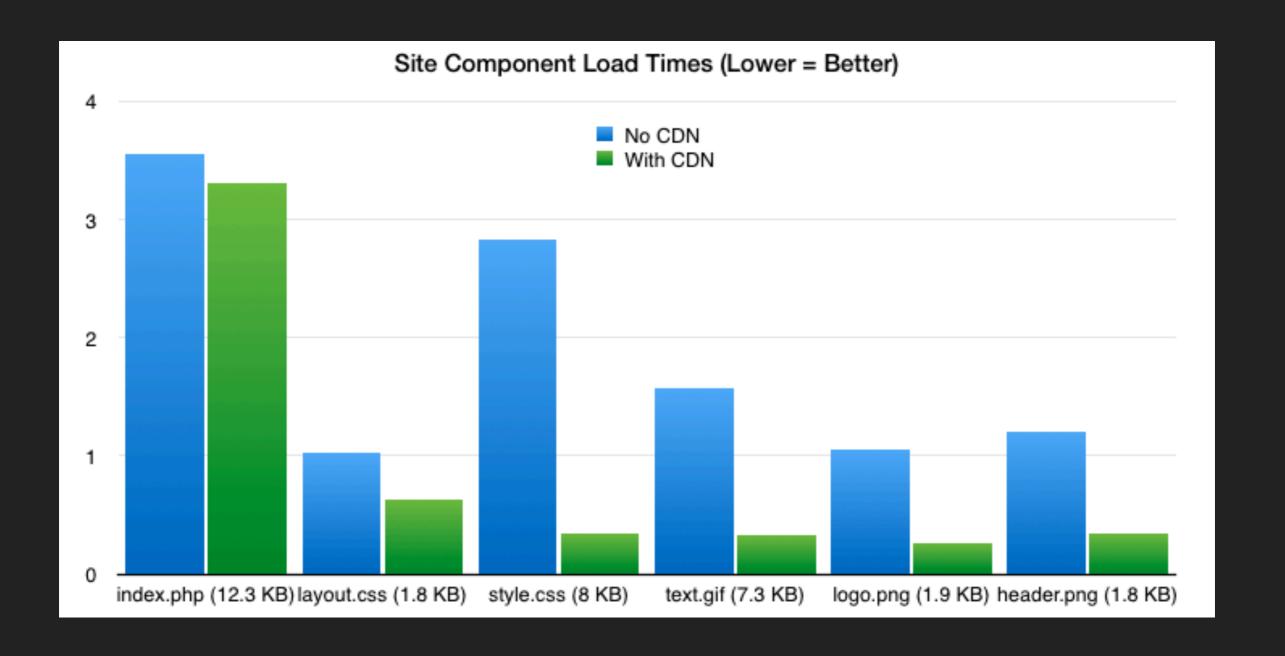




### CLOUD DELIVERY NETWORK!



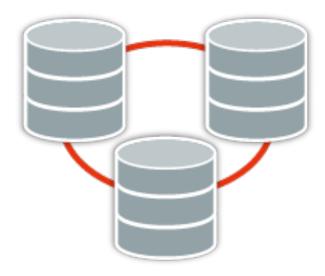
#### **FASTER!**







### database availability \*\*

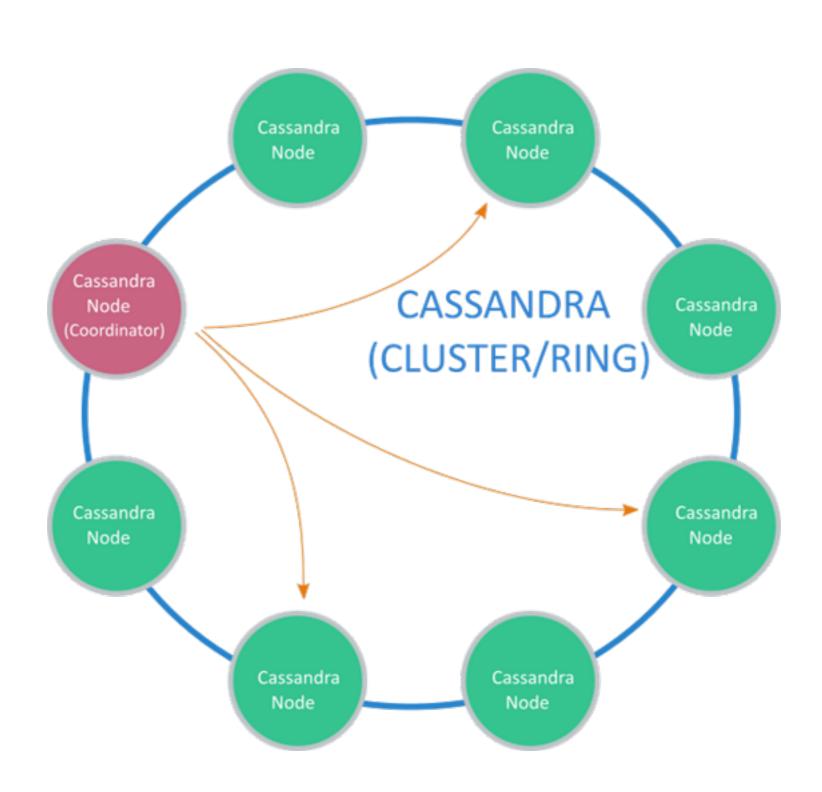




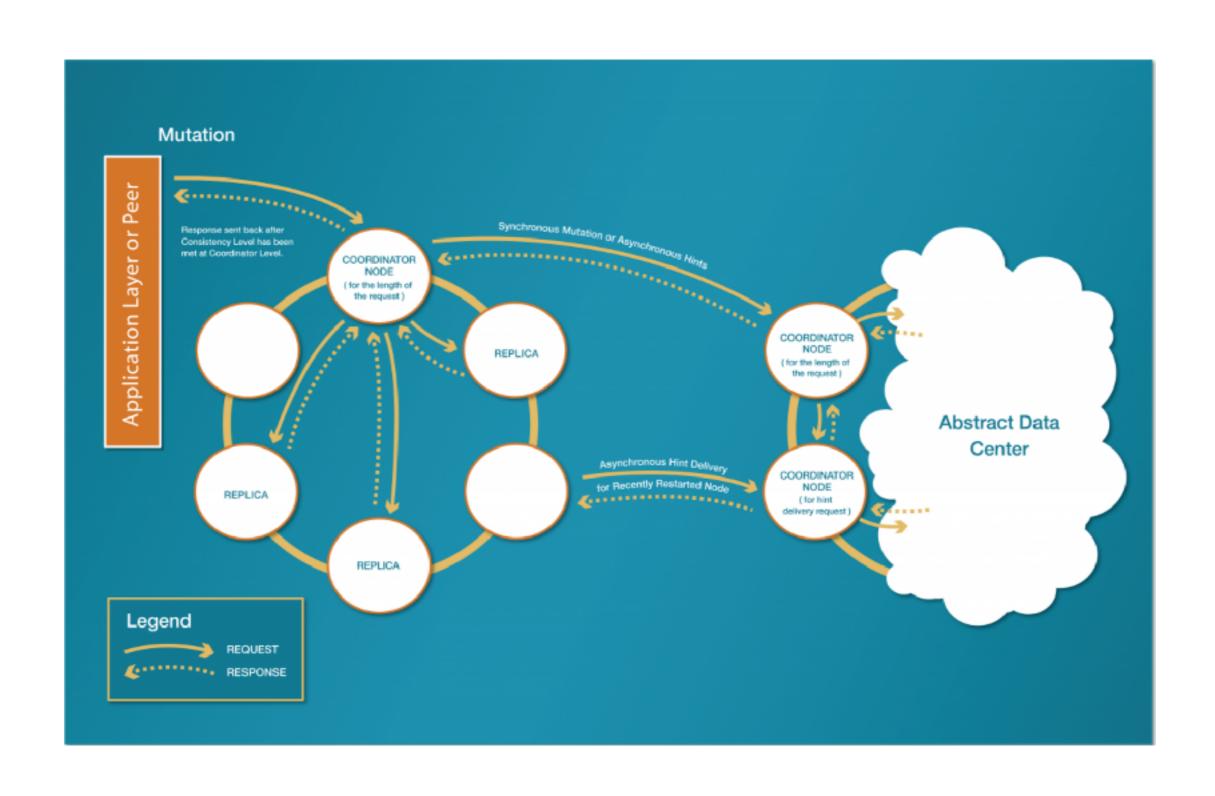


### SCALABILITY AND HIGH AVAILABILITY DATABASE





#### **SCALABLE & PROVEN FAULT-TOLERANCE!**



# THANK YOU