

### All Data Big and Small





#### http://redmonk.com/public/lucene.pdf





## In the beginning, there was the database...





**ORACLE**°



SQL Server





## When you have a hammer and so on







Source: http://www.flickr.com/photos/pagedooley/2234031789/





#### December 29, 2004

#### Adam Bosworth's Weblog

Thoughts on health, technology, and sometimes politics

Home

About me

#### Where have all the good databases gone

About five years ago I started to notice an odd thing. The products that the database vendors were building had less and less to do with what the customers wanted. This is not just an artifact of talking to enterprise customers while at BEA. Google itself (and I'd bet a lot Yahoo too) have similar needs to the ones Federal Express or Morgan Stanley or Ford or

#### RECENT POSTS

- o And on another front
- o To fix health care, release our data
- o Engage with Grace Blog Rally o Looking for a leader - Keas
- o Looking for a leader i is hiring

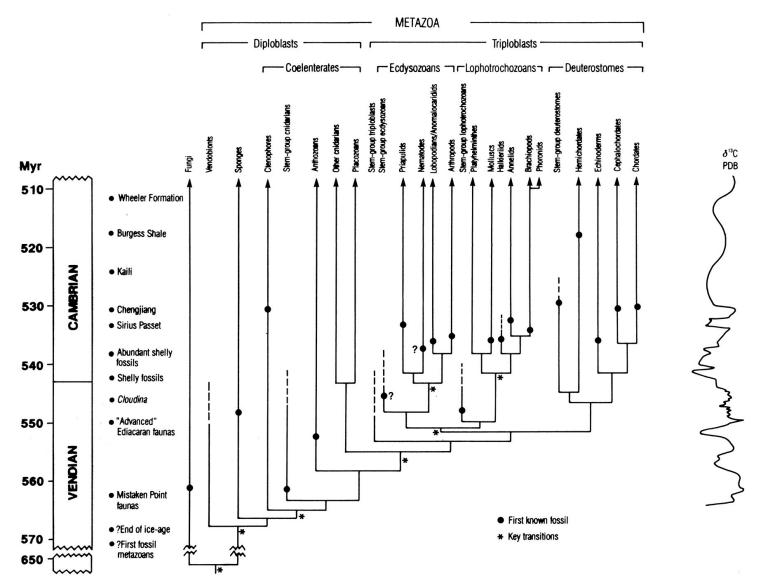




# The Cambrian Non-relational Explosion







Source: http://www.pnas.org/content/97/9/4426/F1.expansion.html









#### Cassandra





















mongoDB



redis





### Why?





# Different tools for different jobs





#### Or, rather, different data

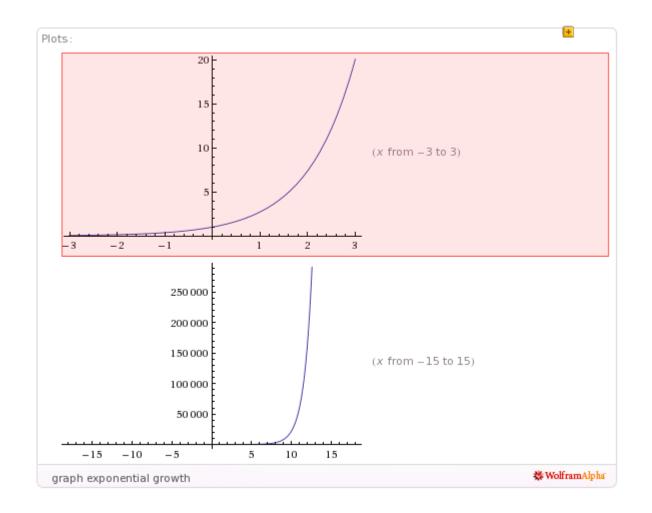




#### A lot of different data











### Most of the attention goes to Big Data





## In spite of the fact that comparatively few have it





#### Less heralded is unstructured data





209.85.238.246 - - [22/May/2011:06:27:20 -0400] "GET /feed/ HTTP/1.1" 200 6409 "-" "Feedfetcher-Google; (+http://www.google.com/feedfetcher.html; 36 subscribers; feed-id=7899190\$ 67.195.111.184 - - [22/May/2011:06:27:26 -0400] "GET /jgovernor/2005/12/22/on-micromuse-and-ibm/ HTTP/1.0" 200 29474 "-" "Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yaho\$ 119.63.196.117 - - [22/May/2011:06:27:27 -0400] "GET /jgovernor/?p=83 HTTP/1.1" 301 - "-" "Mozilla/5.0 (compatible; Baiduspider/2.0; +http://www.baidu.com/search/spider.html)"

AY Prev Page

^V Next Page

^K Cut Text

^U UnCut Txt

^C Cur Pos

^T To Spell

79.171.81.218 - - [22/May/2011:06:27:19 -0400] "GET /cote/topic/reviews-2/ HTTP/1.1" 200 48670 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)"

^R Read File

^W Where Is

^G Get Help

^X Exit

^0 WriteOut

^J Justify

### Between the size and (un)structure, it's amazing anything gets found







#### It's hard to ask the right question





### To make matters worse, you may only get one chance





# The most important answer is the next question





### Some questions





























```
🔞 🖨 📵 sog@apone: ~
 GNU nano 2.2.6 File: ...apikey=api_test-W1cipwpcdu9Cbd9pmm8D4Cjc469 Modified
        "enthusiasm":0.08884297,
        "fo_trstrank":0.9268817,
       "created_at": "20080806103437",
       "interesting":10.167786,
        "outflux":0.014605695,
       "influx":533.0094,
        "followers": "2433.0",
       "feedness":0.7231405,
        "at_trstrank":0.17347828,
       "user_id":15748351,
       "sway":2.9026845,
        "chattiness":0.28512397,
        "follow_rate":0.08248787,
        "screen_name": "infochimps",
        "follow churn":0.8888889
            ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^G Get Help
  Exit
                Justify
                          ^W Where Is
                                       AV Next Page AU UnCut TextAT
```





### OTHER QUESTIONS



