Redis

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Github Repository

https://github.com/COLEREIMER/Redis-Final-Project.git

Background

- Started by Salvatore "Antirez" Sanfilippo in 2009
 - Supposed to be a better way to scale his startup.
 - Became open source soon after
- Remote Dictionary Service
 - "Online Hashmap"
 - Holds and accesses all data in memory
 - Stores data to discs
- Very popular database today
 - Websites like Twitter and Github use it
 - Easy to scale

Benefits

- Variables can take up to 1GB of storage
 - Both key and value up to 512mb
 - Ints, strings, lists, maps, JSON, sets, etc.
 - Stored in memory, backed up to disc
- Hash-based data structure
- Tons of built-in functions for data storage and manipulation
 - Usual CRUD ops
 - o Different functions to manipulate only integers, strings, lists etc
- Easy to replicate data to other servers
- Supported by many major languages like Java, C, Python and Javascript

Differences

Redis

- Syntax
 - Get (key) to get a specific value
 - Get works for every bit of data stored
- Memory Intensive
 - Stores all relevant data in memory
- Hash-map based data-structure
- More meant for quick searches and indexes before asking a different DBMS

MySQL

- Syntax
 - SELECT FROM WHERE to get a specific value
 - Joins to get data from different tables
- More disc-intensive
 - Stores and searches data in disc
- Table data structure
- Robust

Our Site

- Goal: Trimmed/scaled down Facebook clone
 - Using Node.JS for interacting with redis our redis database
 - Basic CRUD operations
 - Hopefully basic filters
 - Get crazy with data and set manipulation
 - How many times a user visits a page?
 - Add users' profiles to a recently visited set?