主讲人：付磊

主页：http://carlosfu.iteye.com/

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4-5.集合

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集合

特点

集合内API、实战

集合间API、实战

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1.集合

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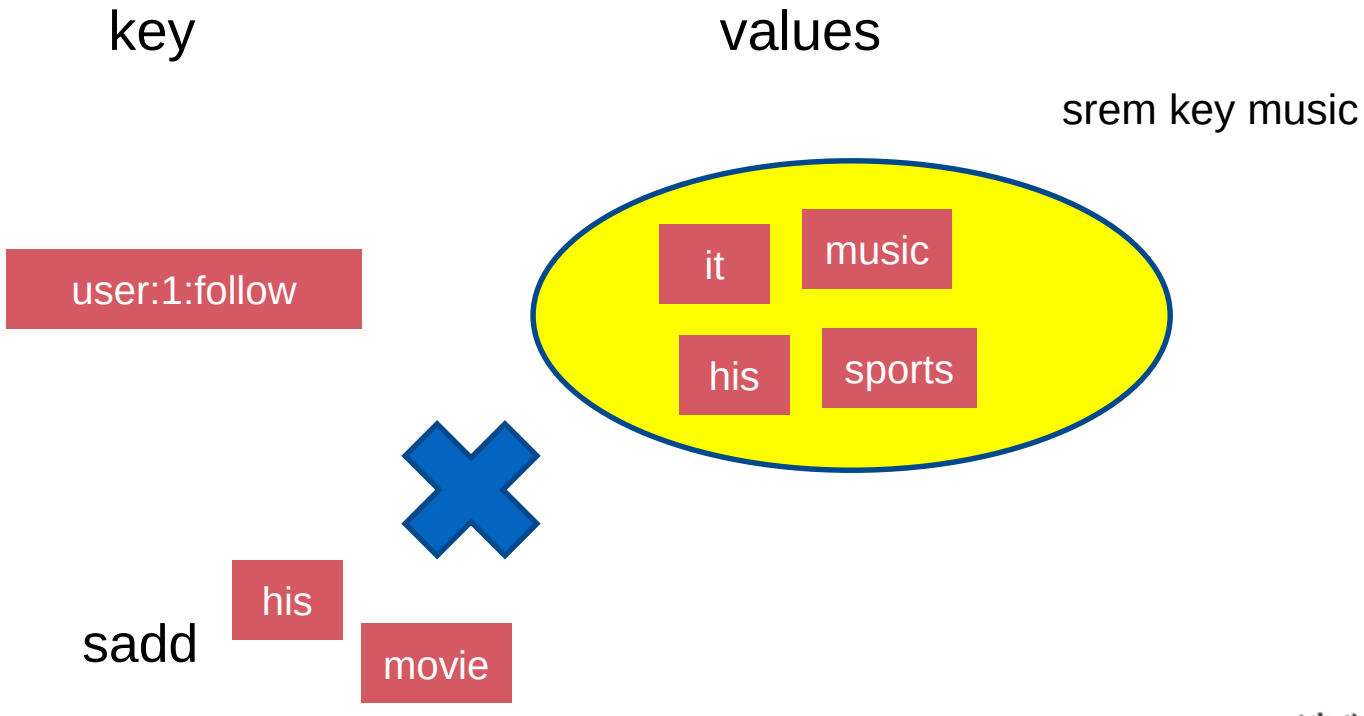
集合结构



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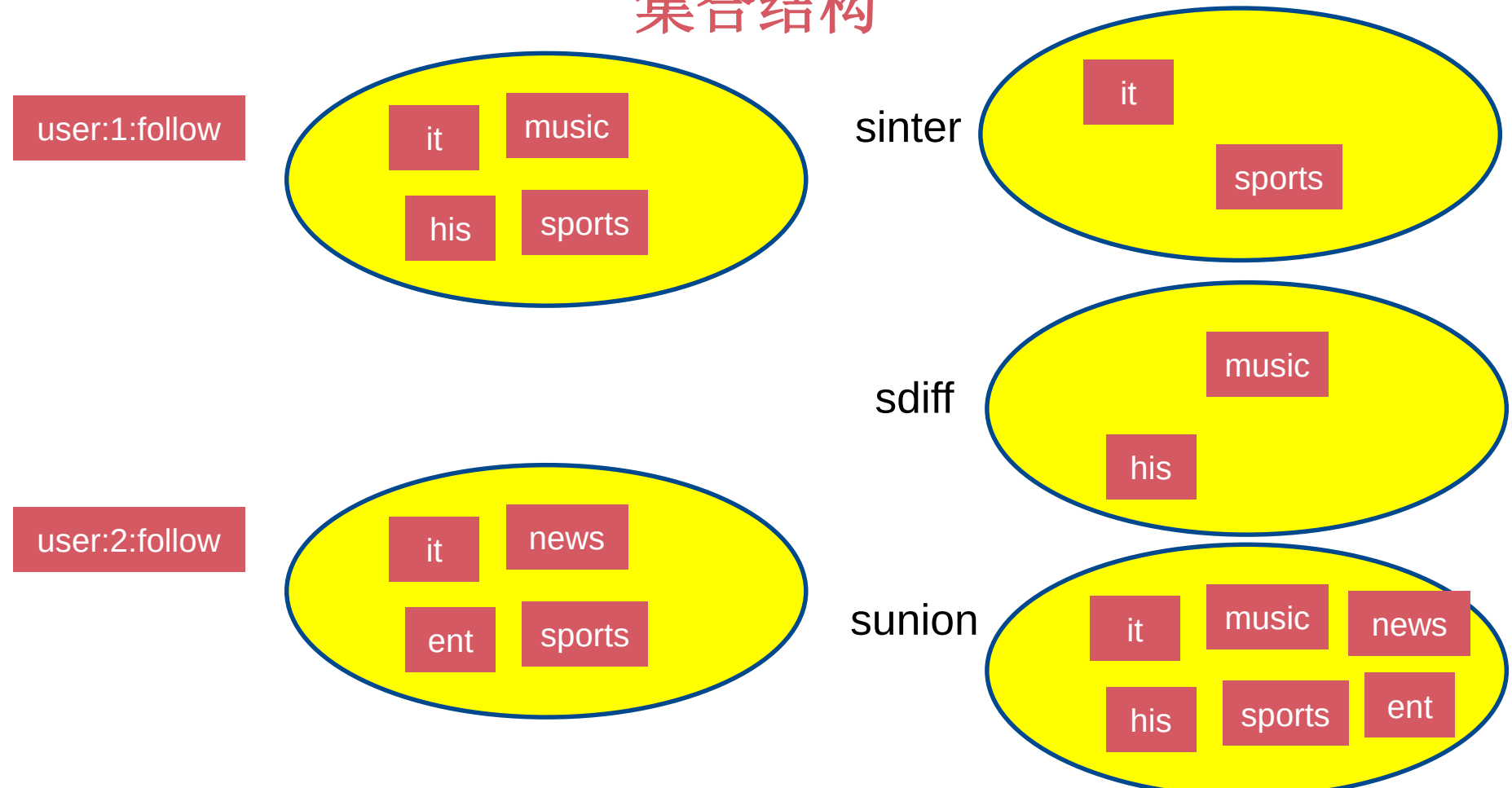
集合结构


user:1:follow
it
music
his
sports
sinter
it
sports
sdiff
music
his
user:2:follow
it
news
ent
sports
sunion
it
music
news
his
sports
ent

特点

无序

无重复

集合间操作

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2.1 .集合内API

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S

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sadd srem

API

sadd key element
#向集合key添加element(如果element已经存在，添加失败)

o(1)

API

srem key element
#将集合key中的element移除掉

o(1)

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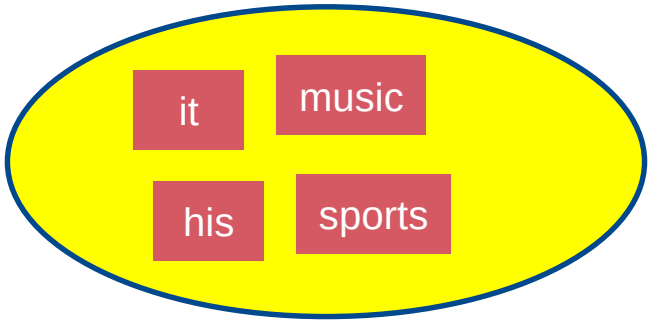
scard sismember srandmember smembers

user:1:follow



scard user:1:follow = 4 #计算集合大小 o(1)

sismember user:1:follow it = 1(存在) #判断it是否在集合中 o(1)

srandmember user:1:follow count= his #从集合中随机挑count个元素 o(n)

spop user:1:follow = sports #从集合中随机弹出一个元素 o(1)

smembers user:1:follow = music his sports it #获取集合所有元素 o(n)

smembers

无序

小心使用

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srandmember 和 spop

spop从集合弹出

srandmember不会破坏集合

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2.2 .集合内实战

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redis-cli

演示

```
127.0.0.1:6379> sadd user:1:follow it news his sports
(integer) 4
127.0.0.1:6379> smembers user:1:follow
1) "news"
2) "his"
3) "it"
4) "sports"
127.0.0.1:6379> spop user:1:follow
"news"
127.0.0.1:6379> smembers user:1:follow
1) "his"
2) "it"
3) "sports"
127.0.0.1:6379> scard user:1:follow
(integer) 3
127.0.0.1:6379> sismember user:1:follow entertainment
(integer) 0
```

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jedis

```
public static void main(String[] args) {
    Jedis jedis = new Jedis("127.0.0.1", 6379);
    jedis.flushAll();
    String key = "user:2:follow";
    jedis.sadd(key, new String[]{"it","music","ent","sports"});
    print("after sadd: ", jedis, key);
    jedis.spop(key);
    print("after spop: ", jedis, key);
    jedis.srem(key, "it");
    print("after srem: ", jedis, key);
}

private static void print(String desc, Jedis jedis, String key) {
    Set<String> set = jedis.smembers(key);
    System.out.println(desc + "set is " + set.toString());
}
```

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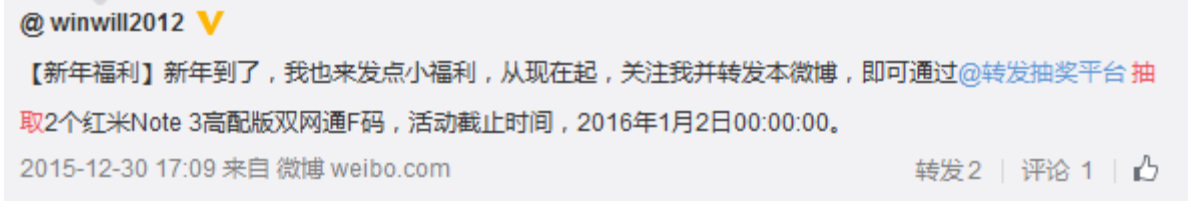
实战-抽奖系统



can be spop

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实战-Like、赞、踩

推荐两篇redis的文章：docker快速构建redis cluster的环境： 网页链接 ；redis hash和set元素为空时，会被自动删除，使用的时候不注意会导致ttl属性被清理，这个估计发生的概率挺高的，如果lru设置不合理，会导致类似“内存泄露”的事情发生， 网页链接

2015-12-6 11:15 来自 微博 weibo.com

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74

美团在Redis上踩过的一些坑

carlosfu.iteye.com 1 删除

来自 redis

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3.集合间API

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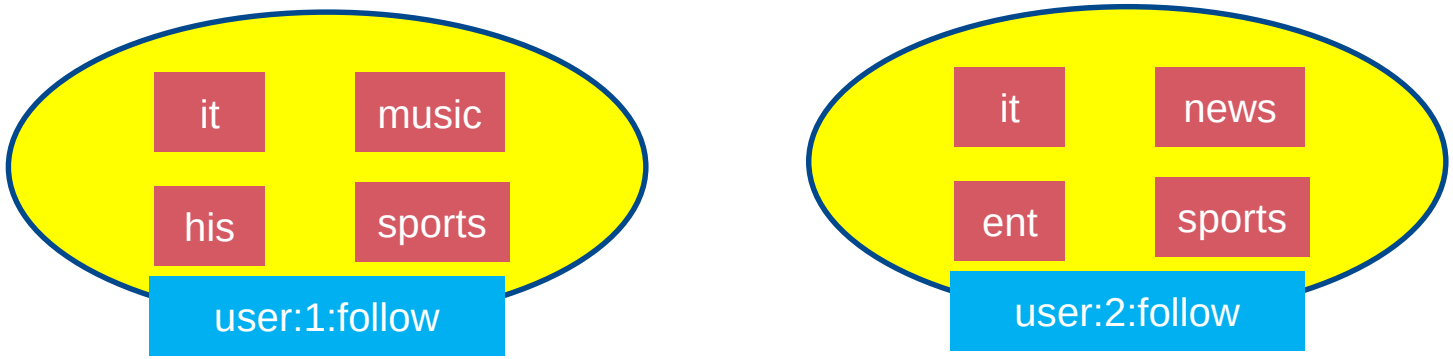
sdiff sinter sunion



sdiff user:1:follow user:2:follow = music his #差集

sinter user:1:follow user:2:follow = it sports #交集

sunion user:1:follow user:2:follow = it music his sports news ent #并集

sdiff|sinter|suion + store destkey .. #将差集、交集、并集结果保存在destkey中

3.集合间实战

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共同关注？

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TIPS

SADD = Tagging

SPOP/SRANDMEMBER = Random item

SADD + SINTER = Social Graph

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集合总结

操作类型	命令
集合内	sadd smembers srem scard spop srandmember sismember
集合间	sdiff sinter sunion store destkey

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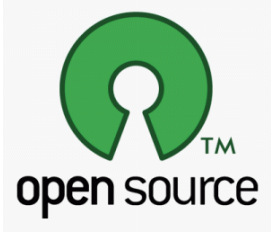

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Github主页：https://github.com/sohutv/cachecloud

QQ群：534429768

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