

# Redis Streams

With RedisInsight, Python and Node.js

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<https://university.redis.com>

<https://redis.io>



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# What is Redis?



**A key-value data store**

**Data is kept in memory**

**Configurable persistence**

**Accessed via a network**

**[redis.com/try-free](https://redis.com/try-free)**



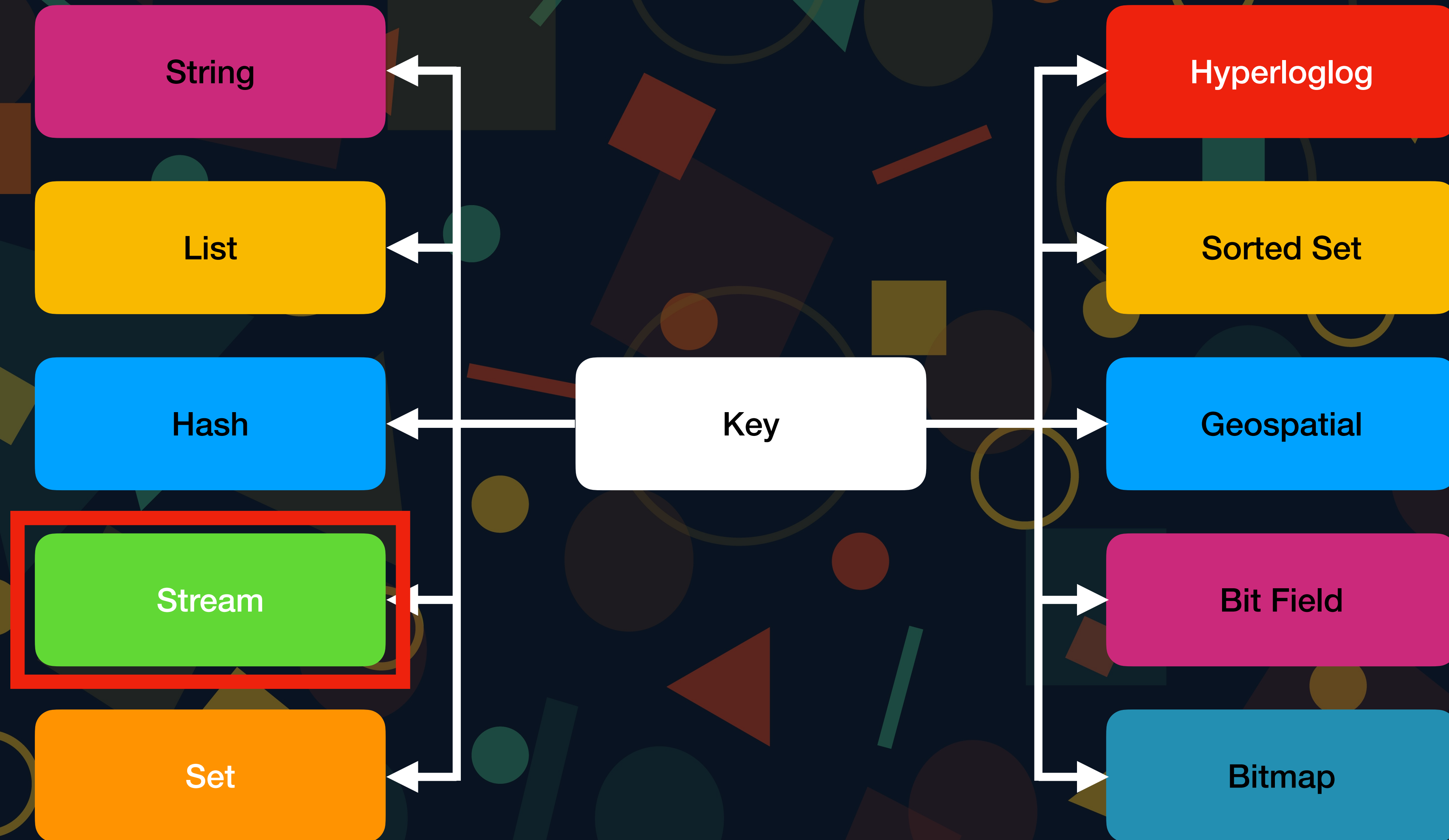
# Key/Value Data Storage



```
127.0.0.1:6379> set cat Mocha
OK
127.0.0.1:6379> set dog Latte
OK
127.0.0.1:6379> get cat
"Mocha"
127.0.0.1:6379>
```

pig	Snowball
cat	Mocha
sheep	Dolly
dog	Latte
parrot	Polly
fish	Spot
cow	Daisy

# Data Structures / Data Types





# Use Case: Streams



**Producer**

1532556560197-0

room: "199"  
job: "taxi"

1532556560195-1

room: "238"  
job: "extra\_towels"

1532556560195-0

room: "324"  
job: "cleaning"

Key: jobs, Type: Stream

**Consumer**

# Streams: Adding new Entries



Producer

```
XADD jobs * room 199 job taxi
```

1532556560197-0

room: "199"  
job: "taxi"

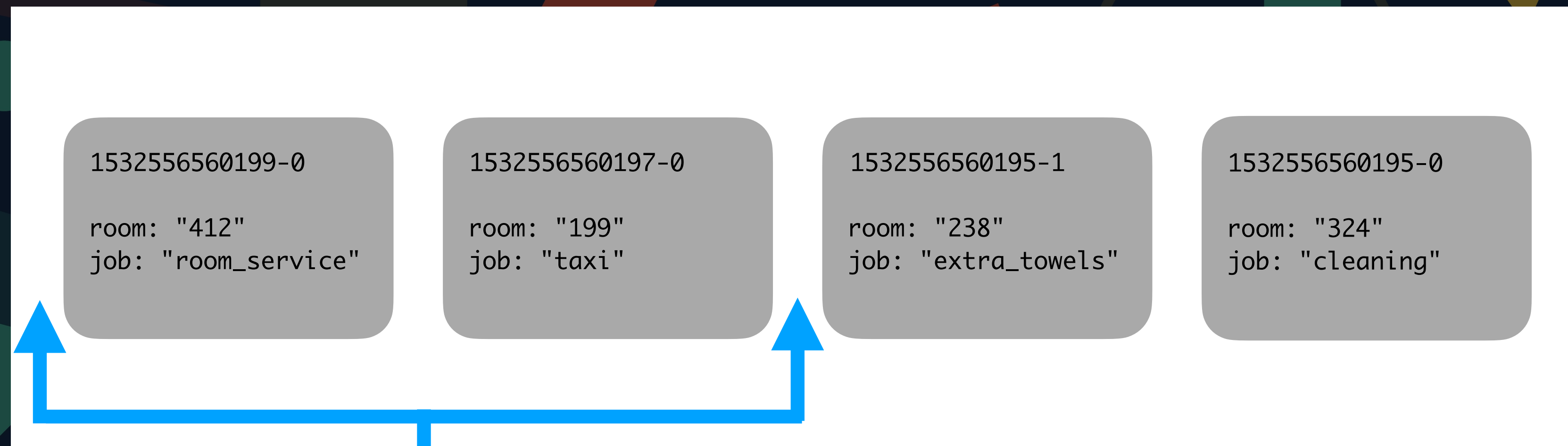
Key: jobs, Type: Stream



# Streams: Range Queries



Key: jobs, Type: Stream



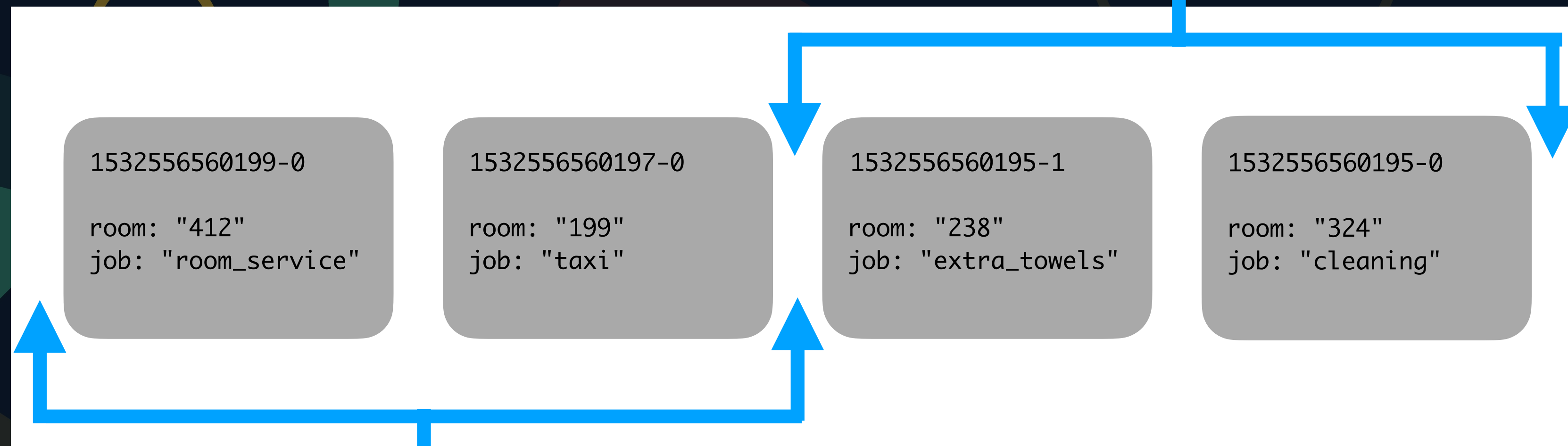
XRANGE jobs 1532556560197 1532556560199

Consumer

# Streams: Read Queries



```
XREAD COUNT 2 STREAMS jobs 0
```

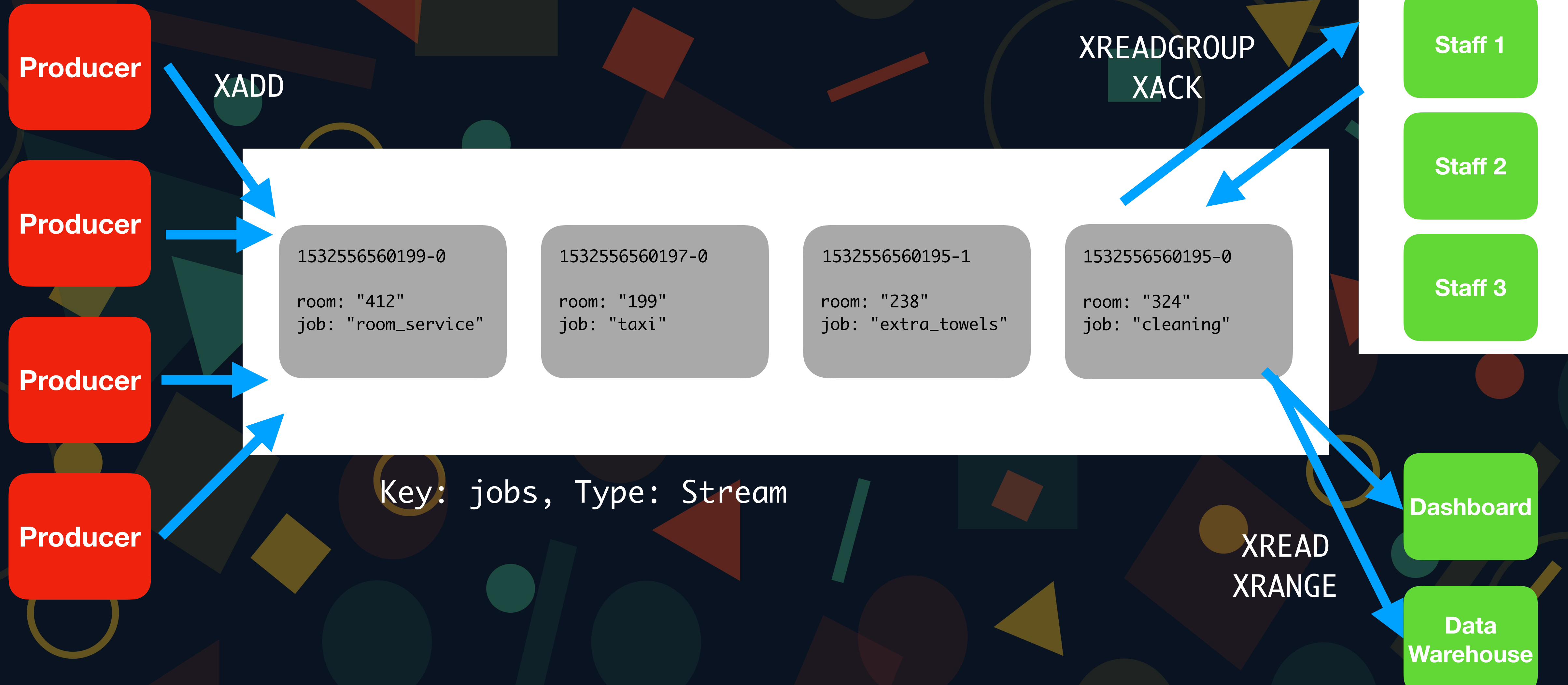


Key: jobs, Type: Stream

```
XREAD COUNT 2 STREAMS jobs 1532556560195-1
```

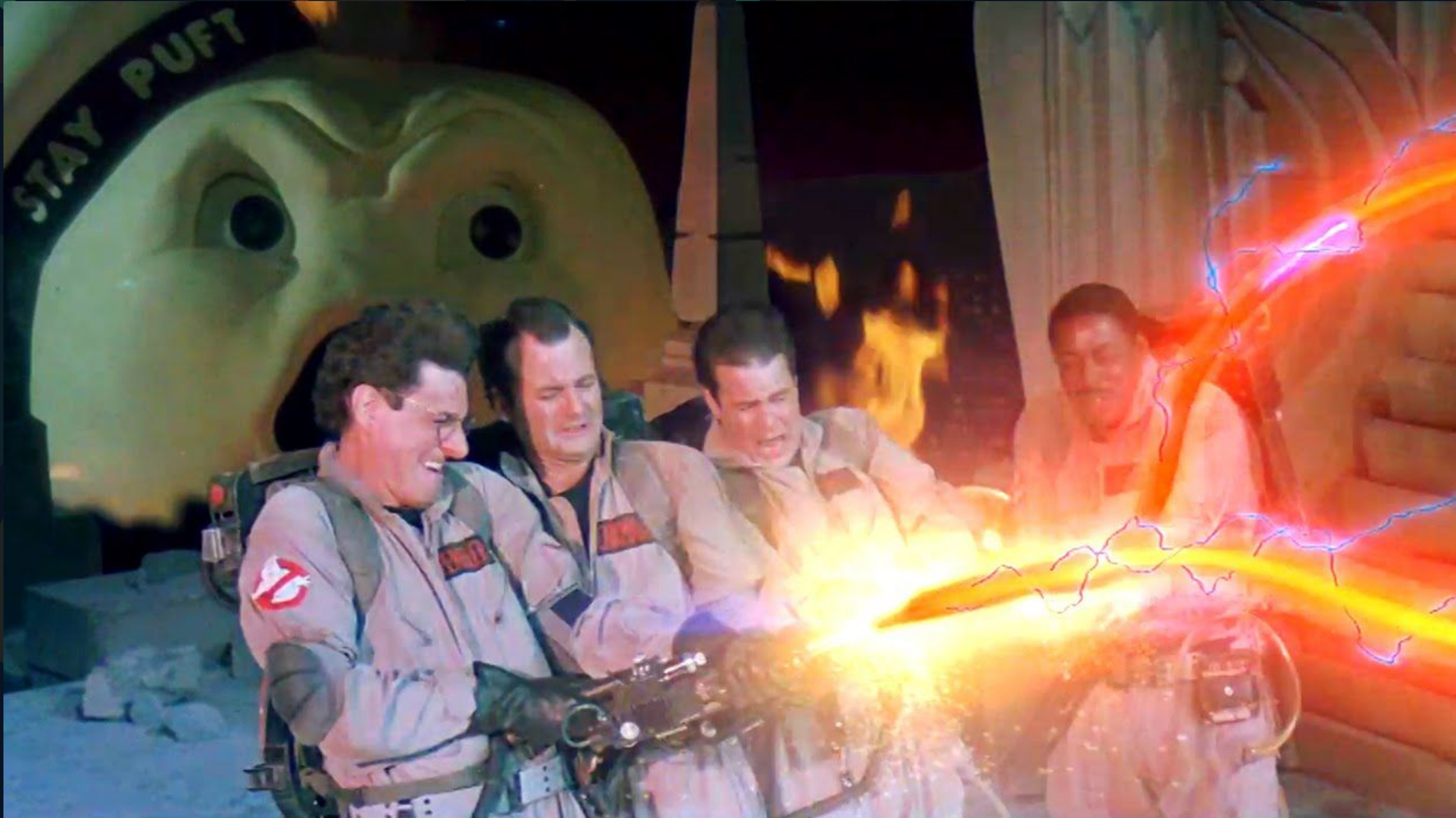


# Streams: Consumer Groups

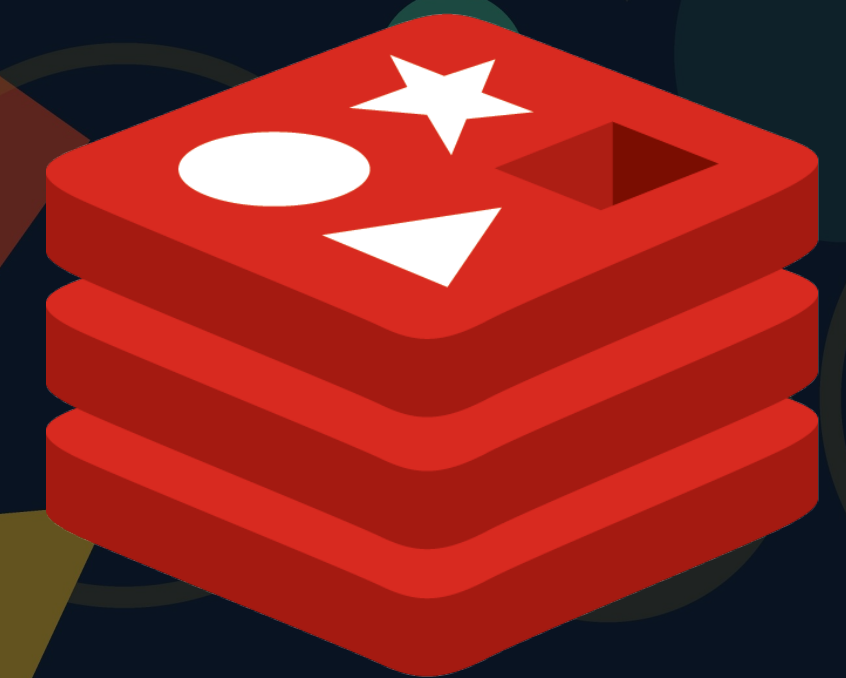




# Streams: X?







[simonprickett.dev/redis-streams-workshop](https://simonprickett.dev/redis-streams-workshop)



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