# Redis + Python

```
Thursday, February 06, 2025 9:29 AM
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#### Redis Command List

- Full List > here <
- Use Filter to get to command for the particular data structure you're targeting (list, hash, set, etc.)
- Redis.py Documentation > here <</li>
- The next slides are not meant to be an exhaustive list of commands, only some highlights. Check the
  documentation for a complete list.

#### **String Commands**

```
represents the Redis client object
r.set('clickCount:/abc', 0)
val = r.get('clickCount:/abc')
r.incr('clickCount:/abc')
ret_val = r.get('clickCount:/abc')
print(f'click count = {ret_val}')
# r represents the Redis client object
print(redis_client.mget('key1',
                             'key2',
'key3'))
# returns as list ['val1', 'val2', 'val3']
 set(), mset(), setex(), msetnx(), setnx()
• get(), mget(), getex(), getdel()
• incr(), decr(), incrby(), derby()
• strlen(), append()
List Commands
# Right push
# prints ['mark', 'sam', 'nick']
print(redis_client.lrange('names', 0, -1))
     lpush(), lpop(), lset(), lrem()
  rpush(), rpop()lrange(), llen(), lpos()
  · Other commands include moving elements between lists, popping from multiple lists at the same time, etc.
```

### **Hash Commands**

### **Redis Pipelines**

• Helps avoid multiple related calls to the server  $\rightarrow$  less network overhead

```
r = redis.Redis(decode_responses=True)
pipe = r.pipeline()

for i in range(5):
    pipe.set(f"seat:{i}", f"#{i}")

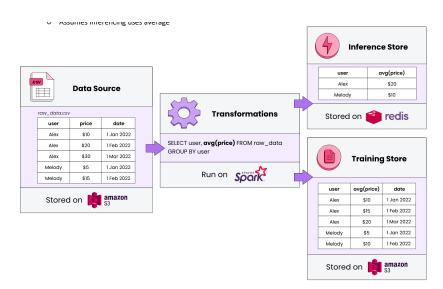
set_5_result = pipe.execute()
print(set_5_result) # >>> [True, True, True, True, True]

pipe = r.pipeline()

# "Chain" pipeline commands together.
get_3_result= pipe.get("seat:0").get("seat:3").get("seat:4").execute()
print(get_3_result) # >>> ['#0', '#3', '#4']
```

# Redis in Context

- Why use redis instead of a MySQL?
  - Latency issues accessing a value with a particular key in Redis is way faster than running a select statement on disk (rather than RAM)
- Redis in ML (simplified)
  - Accumor informating uses average



### • Redis in DS/ML

