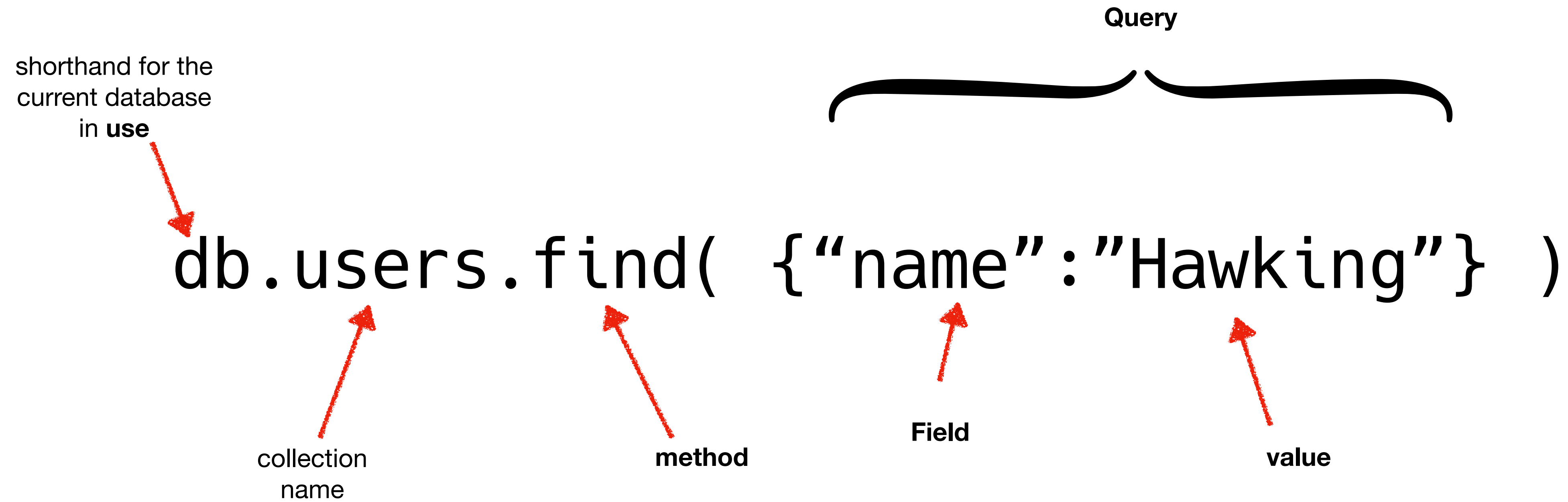
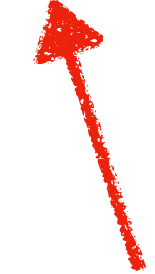
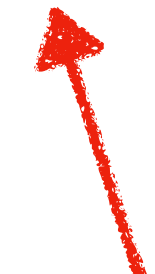



Selection



Selection & Projection

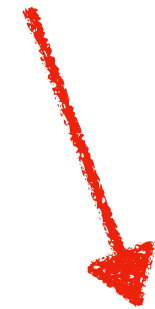
```
db.users.find( {"userid": "beeble", "active": true},  
              {"userid": 1, "pwAge": 1, "_id": 0} )
```

 **Include**  **Include**  **Don't include**

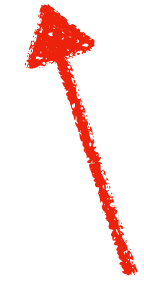
Lots of operators

```
db.users.find( {"$and":  
  [ {"age": {"$gte": 21}},  
    {"Expiration":  
      {"$gt": "$currentDate"},  
      {"NHLlicense": true}  
    ]  
  }  
)
```

Lots of methods



```
db.users.find( { ... } ).function(...).function(...)
```



Lots of methods

Activity : MongoDB queries

Hint: you may want to limit the output with a projection

1. How many movies did “Gus Van Sant” direct?
2. How many movies had Sean Connery in the cast?
3. How many movies had Sean Connery as the first cast member?
4. How many movies won >2 awards with Sean Connery in the cast?
5. What was Sean Connery’s first movie? What was his last?
- 6.

Activity : MongoDB queries - Solutions

Hint: you may want to limit the output with a projection

1. How many movies did "Gus Van Sant" direct?

```
> db.movies.find({"directors":"Gus Van Sant"}).count()  
17
```

2. How many movies had Sean Connery in the cast?

```
> db.movies.find({"cast":"Sean Connery"}).count()  
32
```

3. How many movies had Sean Connery as the first cast member?

```
> db.movies.find({"cast.0":"Sean Connery"}).count()  
26
```

4. How many movies won >2 awards with Sean Connery in the cast?

```
> db.movies.find({"cast":"Sean Connery","awards.wins":{"$gt":2}}).count()  
13
```

5. What was Sean Connery's first movie? What was his last?

```
> db.movies.find({"cast.0":"Sean Connery"},{"year":1,"title":1,"_id":0}).sort({"year":1}).limit(1)  
[ { title: 'Dr. No', year: 1962 } ]  
> db.movies.find({"cast.0":"Sean Connery"},{"year":1,"title":1,"_id":0}).sort({"year":-1}).limit(1)  
[ { year: 2003, title: 'The League of Extraordinary Gentlemen' } ]
```