\$bucket stage

At minute 4:45 we show the error message for trying to group a value that falls outside the boundaries.

```
$switch could not find matching branch for an input, and no default was specified
```

This message might be a bit confusing since we mention *switch* and *branches*. This is related with the internal **\$bucket** stage implementation that uses a **\$group** and **\$switch** stages. We can see that in detail when running the **explain()** command.

```
□ сору
db.coll.explain().aggregate([{ $bucket: {groupBy: "$x", boundaries: [0, 50, 100]}}])
  "stages" : [
      "$cursor" : {
        "query" : {
        "fields" : {
          "\times" : 1,
          "_id" : 0
        "queryPlanner" : {
      "$group" : {
        "_id" : {
          "$switch" : {
```

```
"branches" : [
   "case" : {
    "$and" : [
        "$gte" : [
         "$x",
           "$const" : 0
         "$lt" : [
          "$x",
           "$const" : 50
   "then" : {
   "$const" : 0
   "case" : {
    "$and" : [
        "$gte" : [
          "$x",
           "$const" : 50
```

```
"$lt" : [
                    "$x",
                     "$const" : 100
            "then" : {
             "$const" : 50
     "count" : {
      "$sum" : {
        "$const" : 1
  "$sort" : {
     "sortKey" : {
      "_id" : 1
"ok" : 1
```