In this lecture, we will discuss…

✦ $unwind

$unwind

✧ Peels off the elements of an array individually, and returns a stream of documents

✧ $unwind returns one document for every member of the unwound array within every source document

$unwind – Example (without $unwind)

✧
```
db[:zips].find().aggregate([{:$match=>{:ci
ty=>'ELMIRA'}}, {:$group=>{
:_id=>{:city=>'$city',:state=>'$state'},
:zips=>{:$addToSet=>'$_id'}}}]).each {|r|
pp r}
```

Note: Observe "ELIMIRA, NY"

$unwind – Example

- ```
  db[:zips].find().aggregate([{:$match=>{:ci
  ty=>'ELMIRA'}}, {:$group=>{
  :_id=>{:city=>'$city',:state=>'$state'},:z
  ips=>{:$addToSet=>'$_id'}}},
  {:$unwind=>'$zips'}]).each {|r| pp r}
  ```

Summary

✧ Deconstructs an array field from the input documents to output a document for *each* element.

What's Next?

✧ Schema Design