Aggregation

- Aggregation operations process data records and return computed results.

- Aggregation operations group values from multiple documents together, and can perform a variety of operations on the grouped data to return a single result.

- MongoDB provides three ways to perform aggregation:
  - the aggregation pipeline
  - the map-reduce function
  - single purpose aggregation methods.

Single Purpose Aggregations

- Across a single collection

  - db.collection.count()

    - e.g. tweets.find({"$geo" : {"$ne" : None}}).count()

  - db.collection.distinct()

The Aggregation Pipeline

- Filter Documents

- Apply a Transformation