

Data Mapper Object

- Data mappers map data from a Data Access Object to Data Models
- Data Access Object
 - not covered too much in this talk
 - provides access to a data source like a database, salesforce, as400, REST, via a predictable interface
- Concerned with retrieving or persisting a single Data Model (or collection)

Data Mapper Object (con't)

- Not particularly smart
 - will work to retrieve data based on parameters
 - will populate a Data Model generally without validation
 - ** caveat: sometimes a hybrid is created when working with remote sources to introduce Domain Logic Models here... but that's another talk
- Works directly with the Data Model
 - Creates new instances
 - Understands properties
 - Determines what to persist

Data Mapper Object (con't)

- Harddrive example
 - Can take a Harddrive Data Model and save it in the proper format to MySQL
 - Remember, the object has the data, but perhaps the database is normalized
 - Has a method to find a harddrive by serial number
 - Internally, determines what db field is the serial number, runs the query, and then populates the model with the full properties
 - Build collection
 - findAll() - parameter where size is > 250gb

Why is Data Mapper Important?

- Data Models are dumb
 - Don't care what their data is or where it came from
- Domain Logic Models only care about decisions
 - They don't care about the source
- Something needs to retrieve and persist
- Data Mapper is still not your "public" interface
 - (that's a service) - can swap out Data Mappers

Summarize Data Mapper Model

- Works directly with Data Model and Data Access Objects
- Retrieves and Persists Data Models
- Understands properties of Data Models
 - Can map data source to properties
 - Can determine retrieval method based on properties