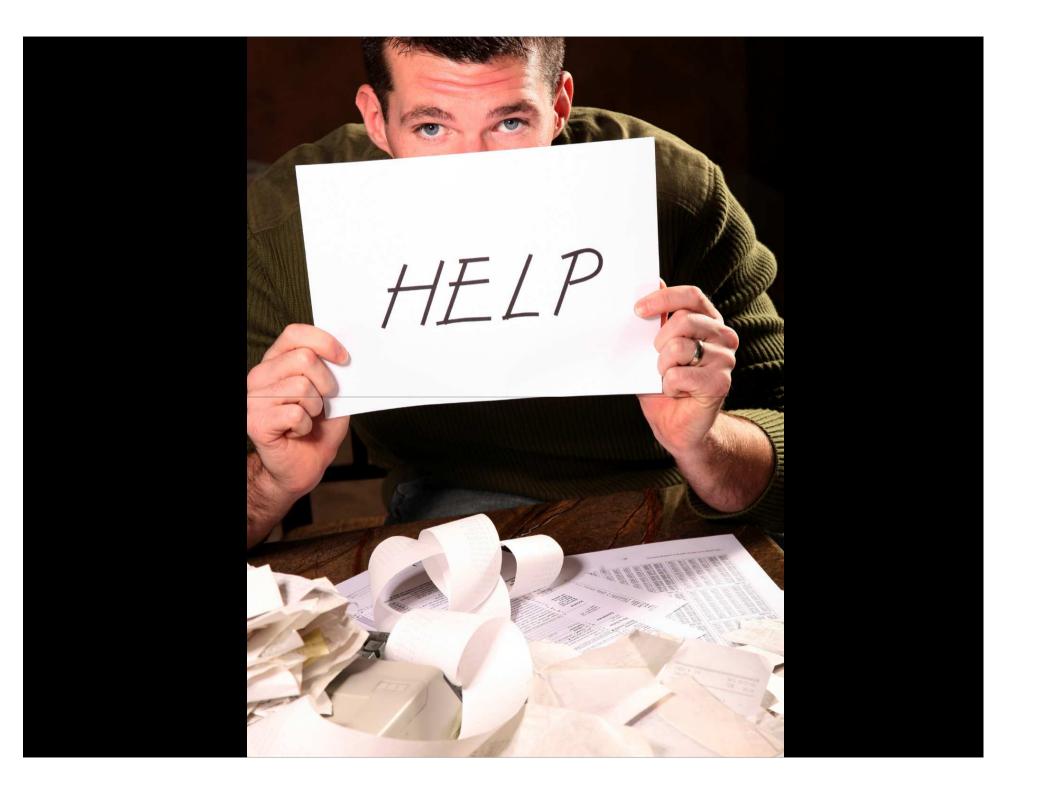


Agenda

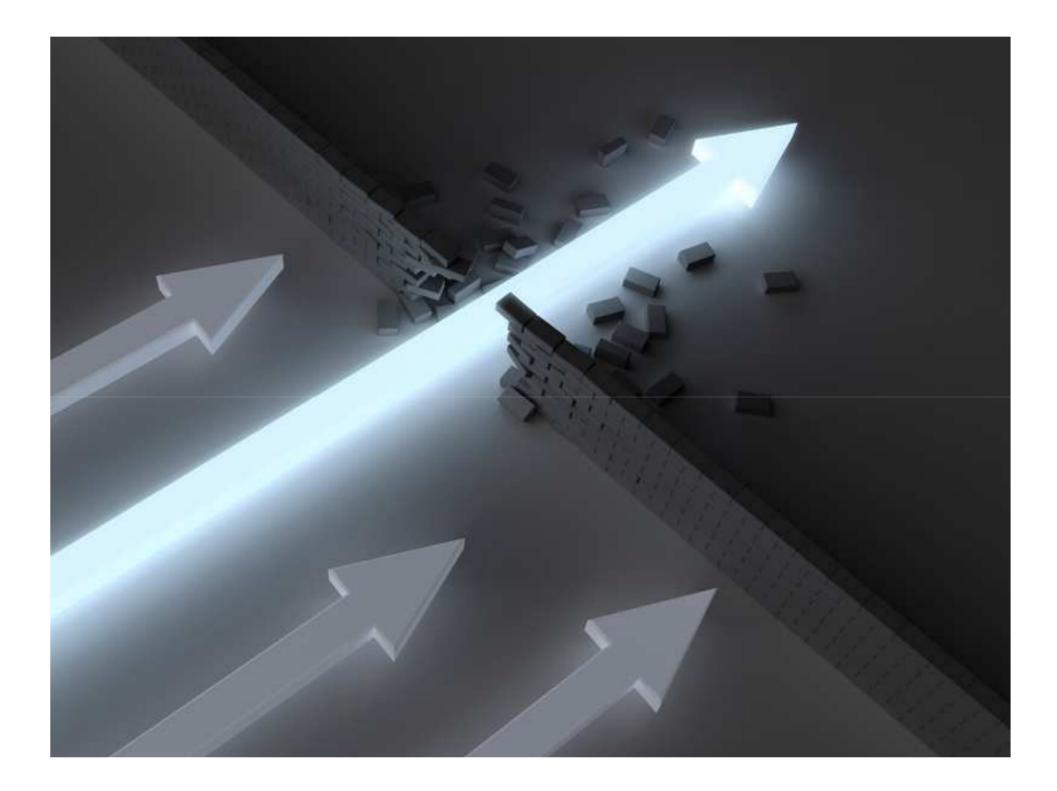
- The Issues
- The Breakthroughs
 - Explicit State Representation
 - Command Query Separation
 - Asynchronous Context Mapping
- Summary
- Questions



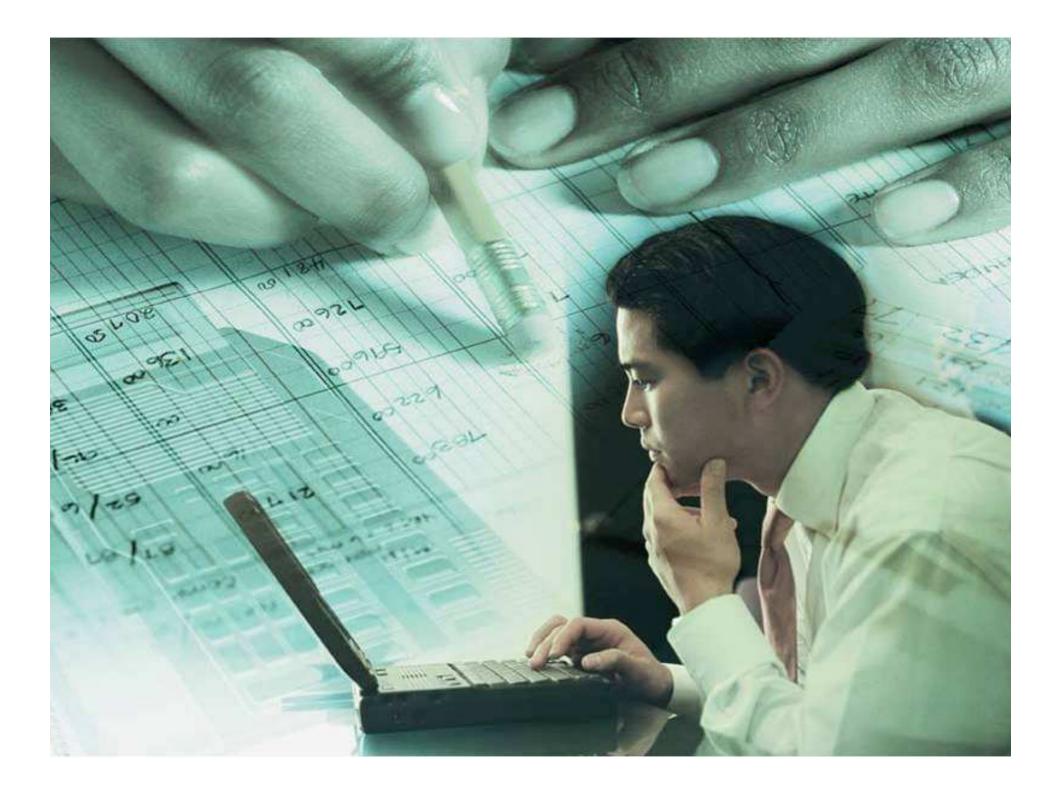


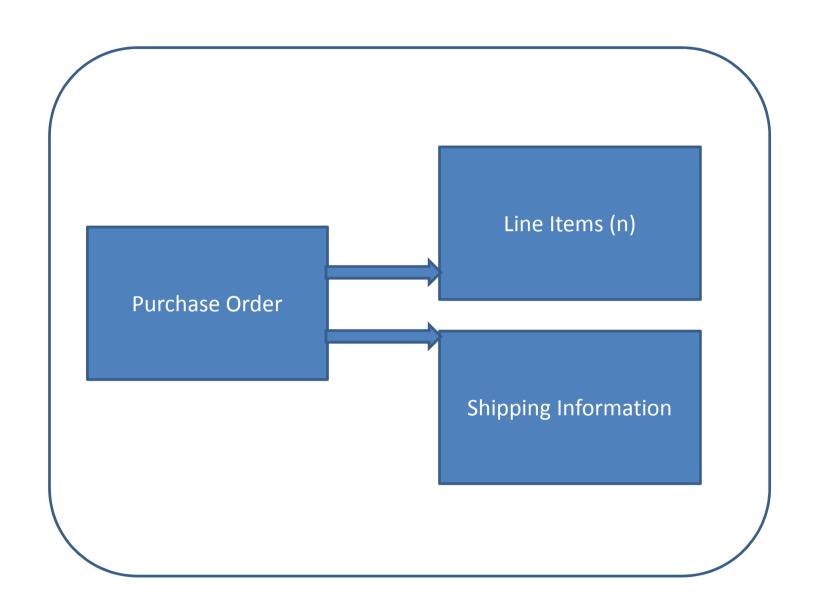




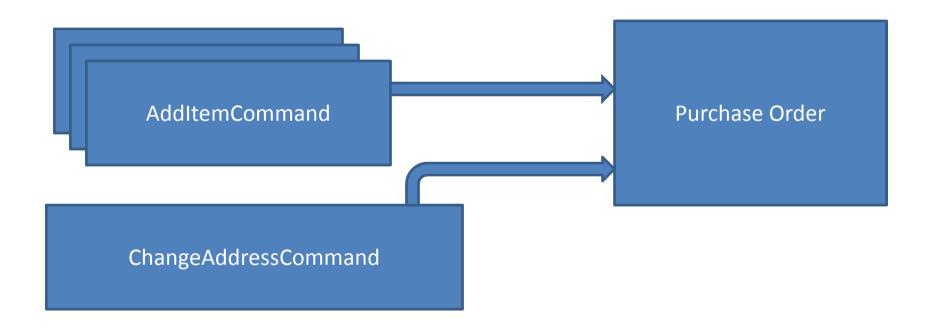


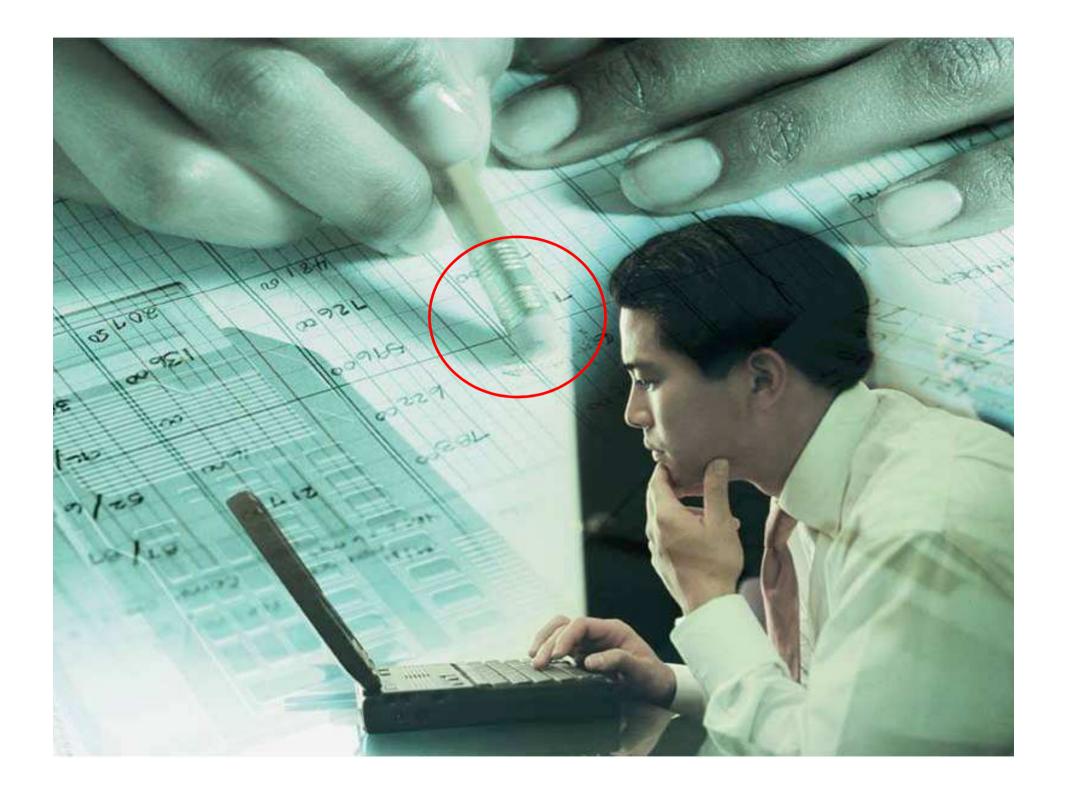
State transitions are an important part of our problem space and should be modeled within our domain.





Cart Created 3 Items Added Shipping Information Added





Cart Created

3 Items Added

1Item Removed

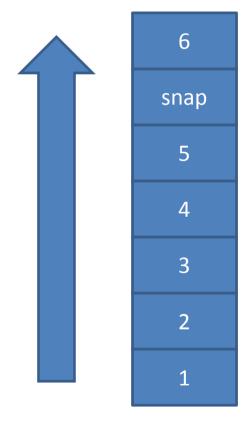
Added

Shipping Information Added













A single model cannot be appropriate for reporting, searching, and transactional behaviors...

Map DTO from Domain

Save Domain
Object(s)

Edit DTO in UI

Map Data from DTO to Domain

Send DTO to Server

Query Data

Write to Query System

Build Commands

Write to
Transactional
System

Send Commands to Domain

Domain Validates Commands



The model that a client needs the data in a distributed system is screen based and different than the domain model.



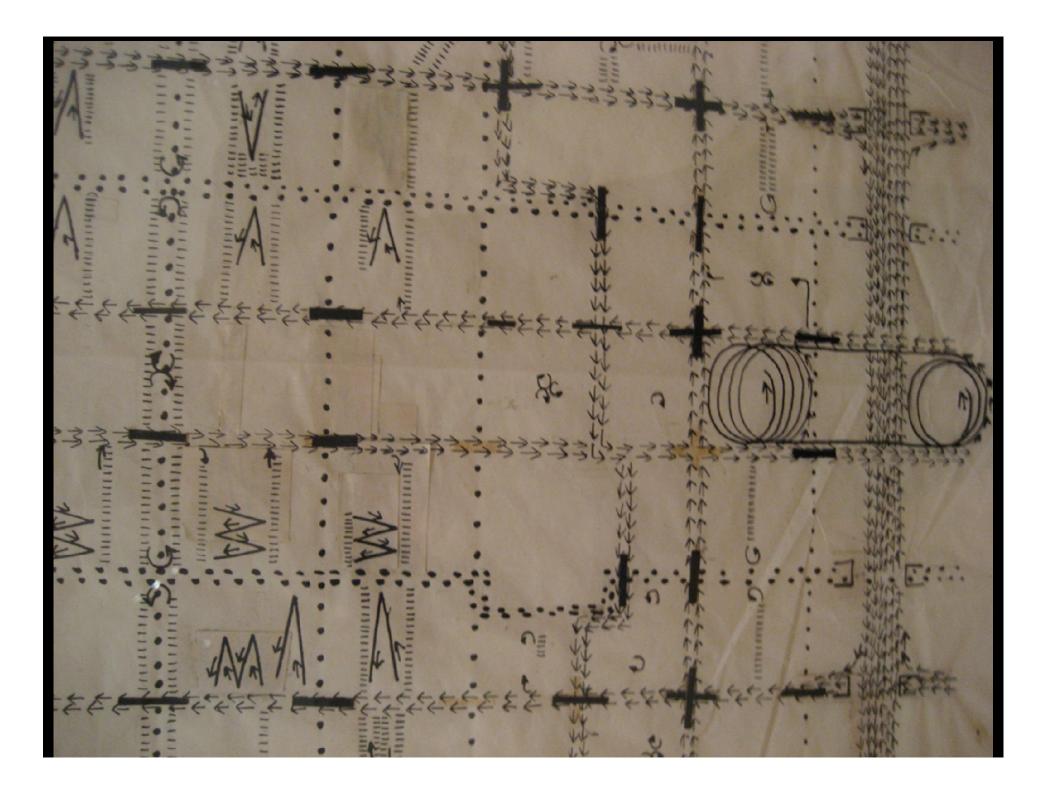


Most queries can operate with relaxed consistency...





```
public interface Content extends IdBasedDomainObject, Editable {
   String getByline();
   DateTime getLastLiveTime();
   DateTime getPublicationDate();
   DateTime getWebPublicationDateTime();
   Publication getPublication();
   Integer getPageNumber();
   boolean isSensitive():
    String getMarkedSensitiveBy();
   DateTime getMarkedSensitiveOn():
   List<Tag> getTags():
   List<Keyword> getKeywords();
   NewspaperBook getBook():
   NewspaperBookSection getBookSection():
    Series getSeries();
   Contributor getContributor();
   List<Contributor> getContributors();
   List<Tone> getTones();
    Section getDerivedSection();
   Page getPage():
   List<Content> getNestedContent();
   boolean shouldBeDeletedWhenPageIsDeleted();
   boolean isTrailblockFromDisplayStoryPackage();
   boolean isPluckCommentable();
   boolean isSynchronisedWithPluck();
   void removeSeries();
   void addTag(Tag tag);
    void removeTag(Tag tag);
    void replaceTag(Tag originalTag, Tag replacementTag);
    boolean isTagSetValid();
   List<Series> getSeriesList();
    String getTypeName();
   String getTrailNameDisplay();
   Trailblock<TrailblockElement> getTrailblock();
   boolean hasSensitiveKeyword();
   void setFootballMatchReference(ExternalReference externalReference);
   ExternalReference getFootballMatchReference();
   void setCricketMatchReference(ExternalReference externalReference);
   ExternalReference getCricketMatchReference();
   ExternalReference getFilmReference();
   void setFilmReference(ExternalReference filmsExternalReference);
   void setFilm(Film film);
   Film qetFilm();
   DateTime getScheduledExpiryDate();
    boolean isExpired():
   DateTime getClosingDateForCommenting();
   DateTime getClosingDateForCommentRecommending();
    boolean isCommentingClosed();
    boolean isCommentRecommendingClosed();
    StarRating getStarRating();
    boolean isInMicrosite();
   List<? extends Factbox> getFactboxes();
    boolean hasTone(ToneName name);
   boolean isEditorial();
   boolean isBlockAds():
```

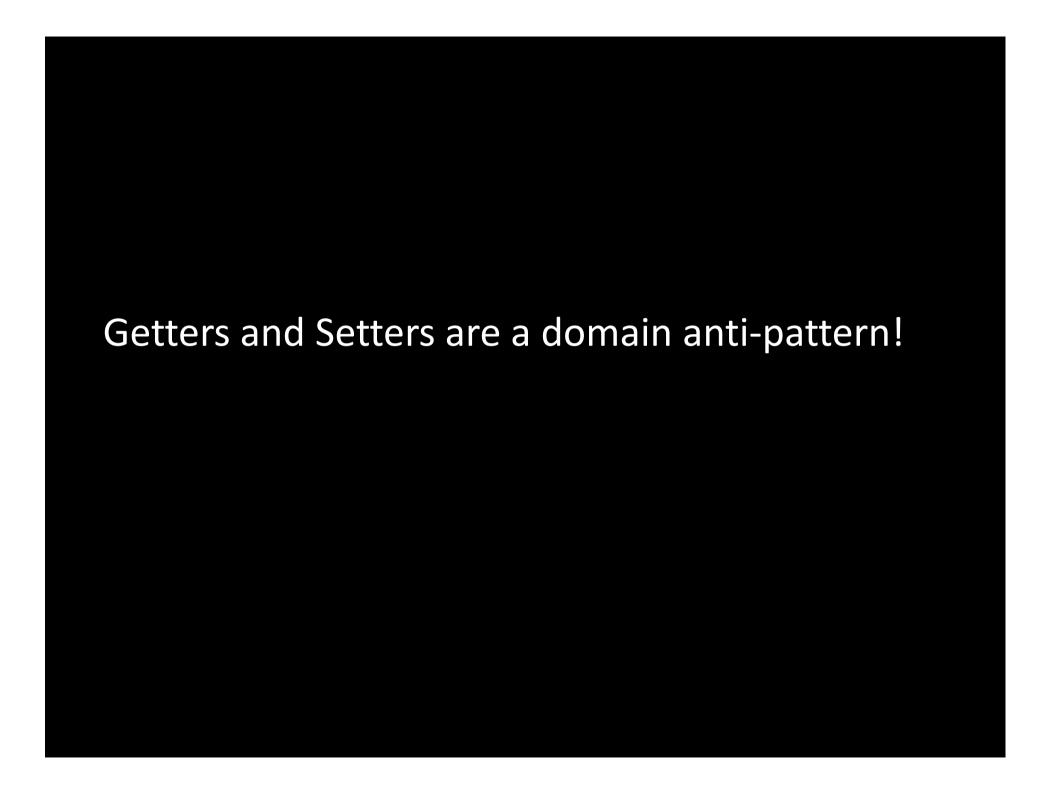


Most Bounded Contexts can interact with relaxed consistency.



"Man acts as though he were the shaper and master of language, while in fact it is language that is the master of man."





Most Bounded Contexts can interact with relaxed consistency.

State transitions are an important part of our problem space and should be modeled within our domain.

A single model cannot be appropriate for reporting, searching, and transactional behaviors...

