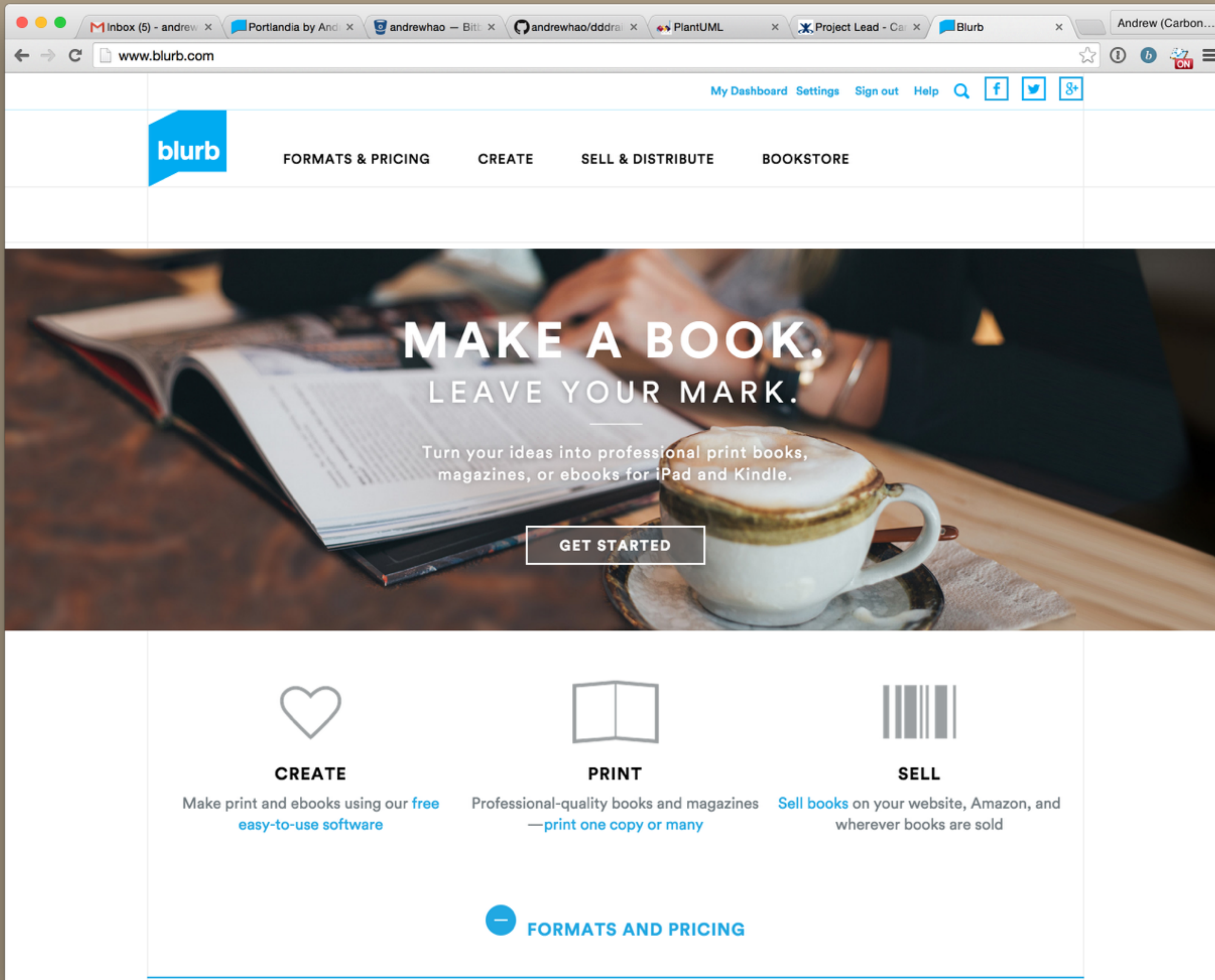


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*Breaking up the Rails monolith
with domain driven design*



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ABOUT THE BOOK

An epic road trip from Oakland to Portland. Highlights include:

- Discovering the existence of Javanilla Shakes at a local Seattle's Best Coffee.
- Stumptown Coffee Roasters. 'Nuff said.
- Voodoo Donuts bacon maple bars. 'Nuff said, again.
- A Crater Lake detour
- Extended time spent at Powell's City of Books
- Street food
- More time at Powell's
- Quality time with Mssr. Dan Garcia
- Hipsters, hipsters, hipsters

All photos credit Jen Chen (www.stillhouette.com)

Dimensions

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road trip, javanilla shake, oregon, sbc, friends, pdx ...

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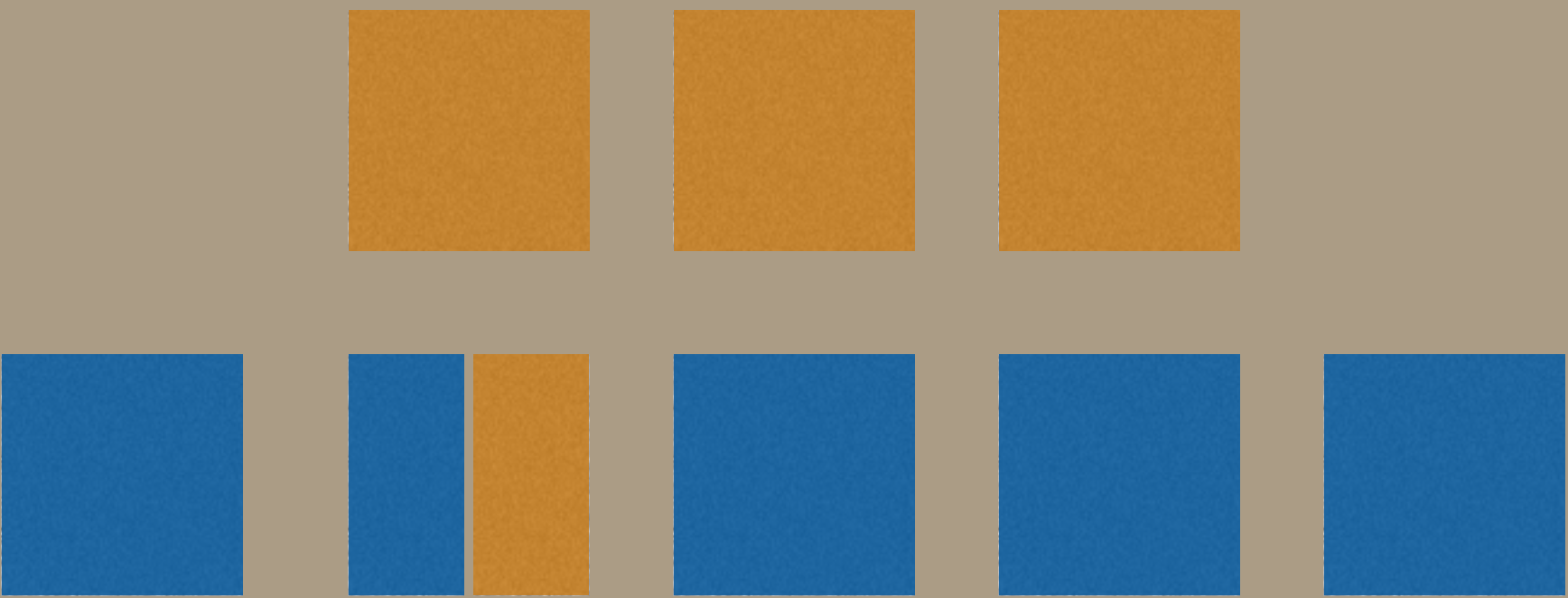
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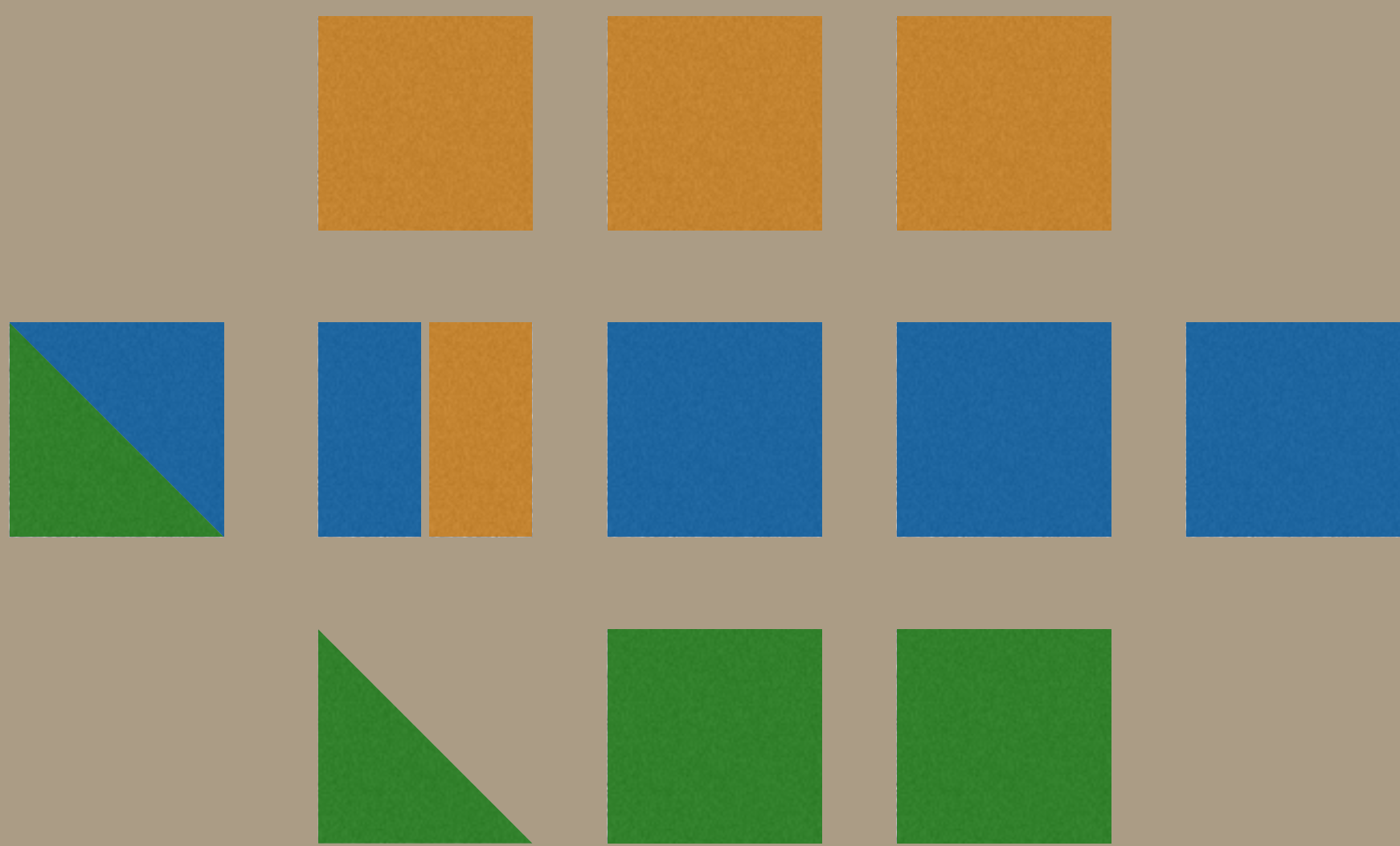
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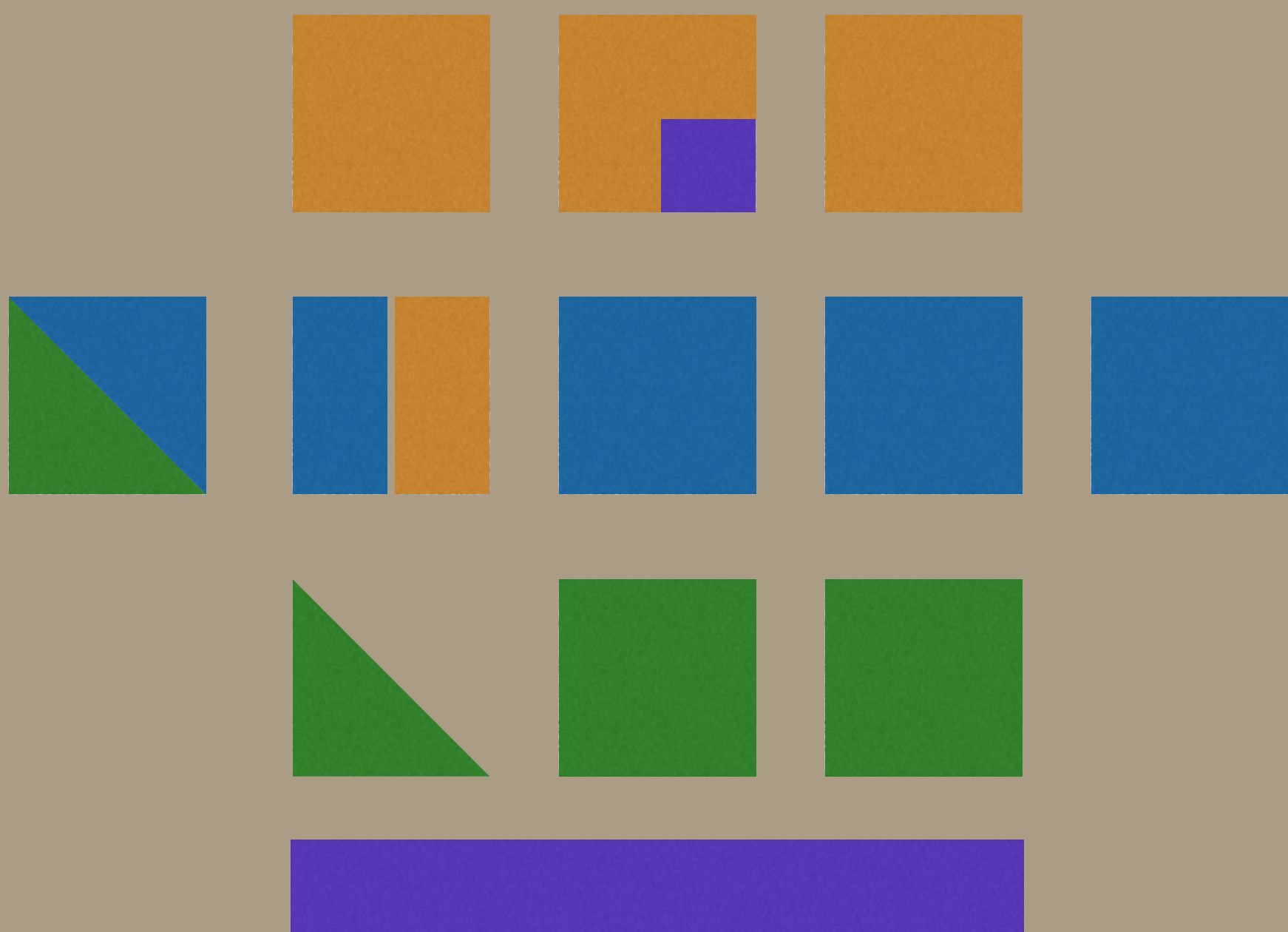
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There was a Rails app

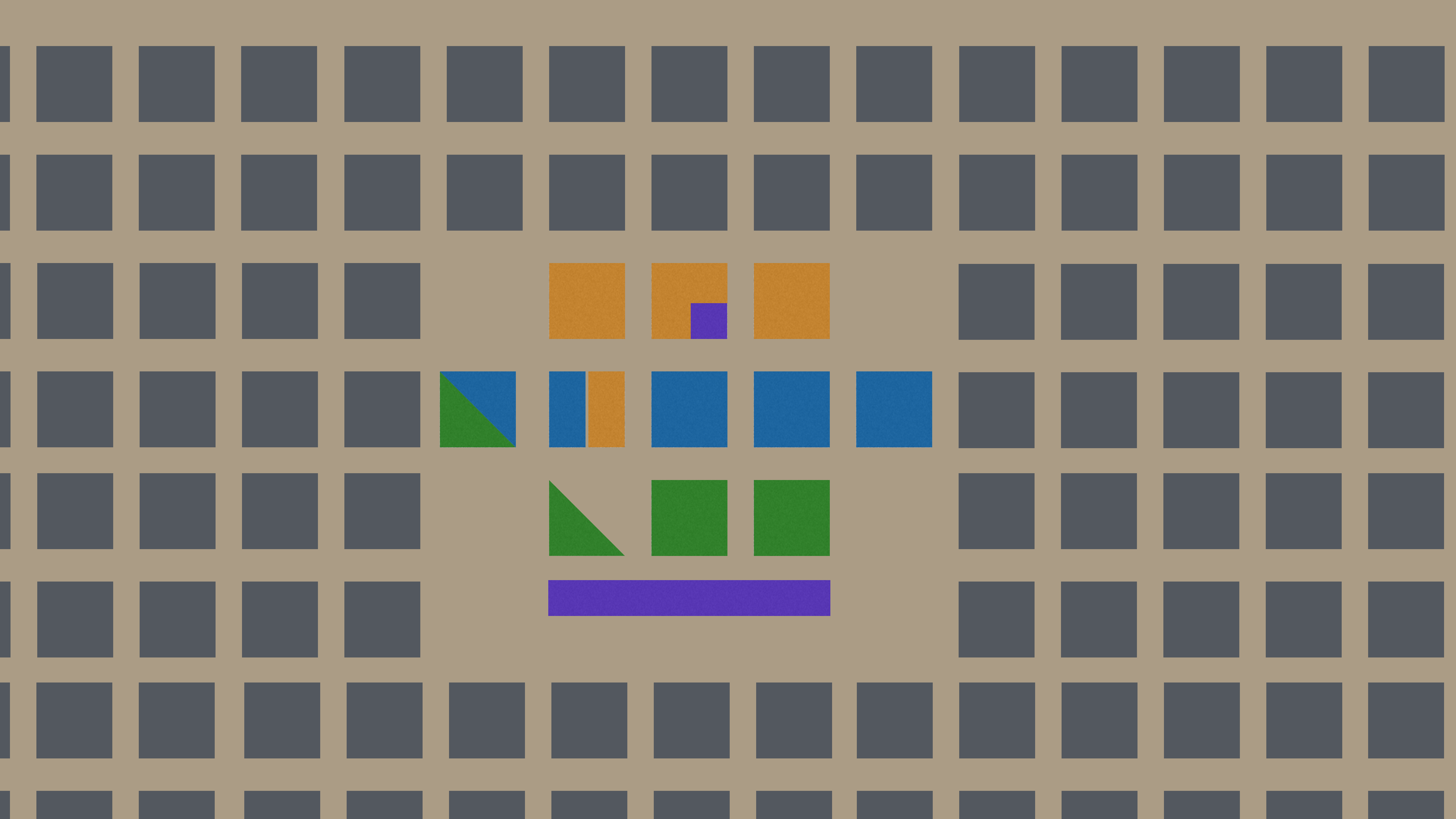








Over 8 years



@#%!

Regressions

Can't ship

“I quit”

*Localized refactoring can only get you so
far*

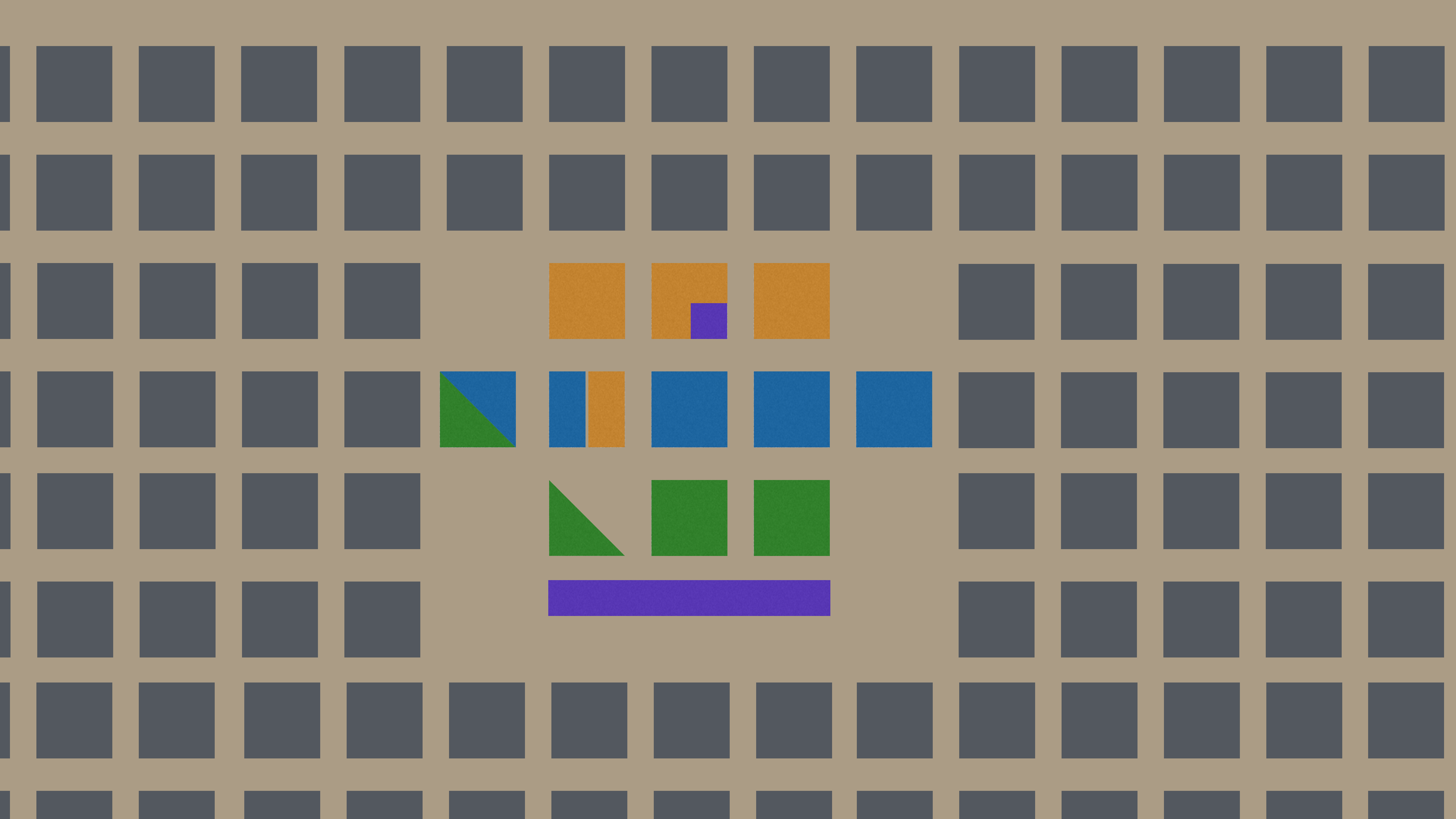
MVC, the Rails Way

ActiveRecord

Presenters, Decorators

Extract Method Object

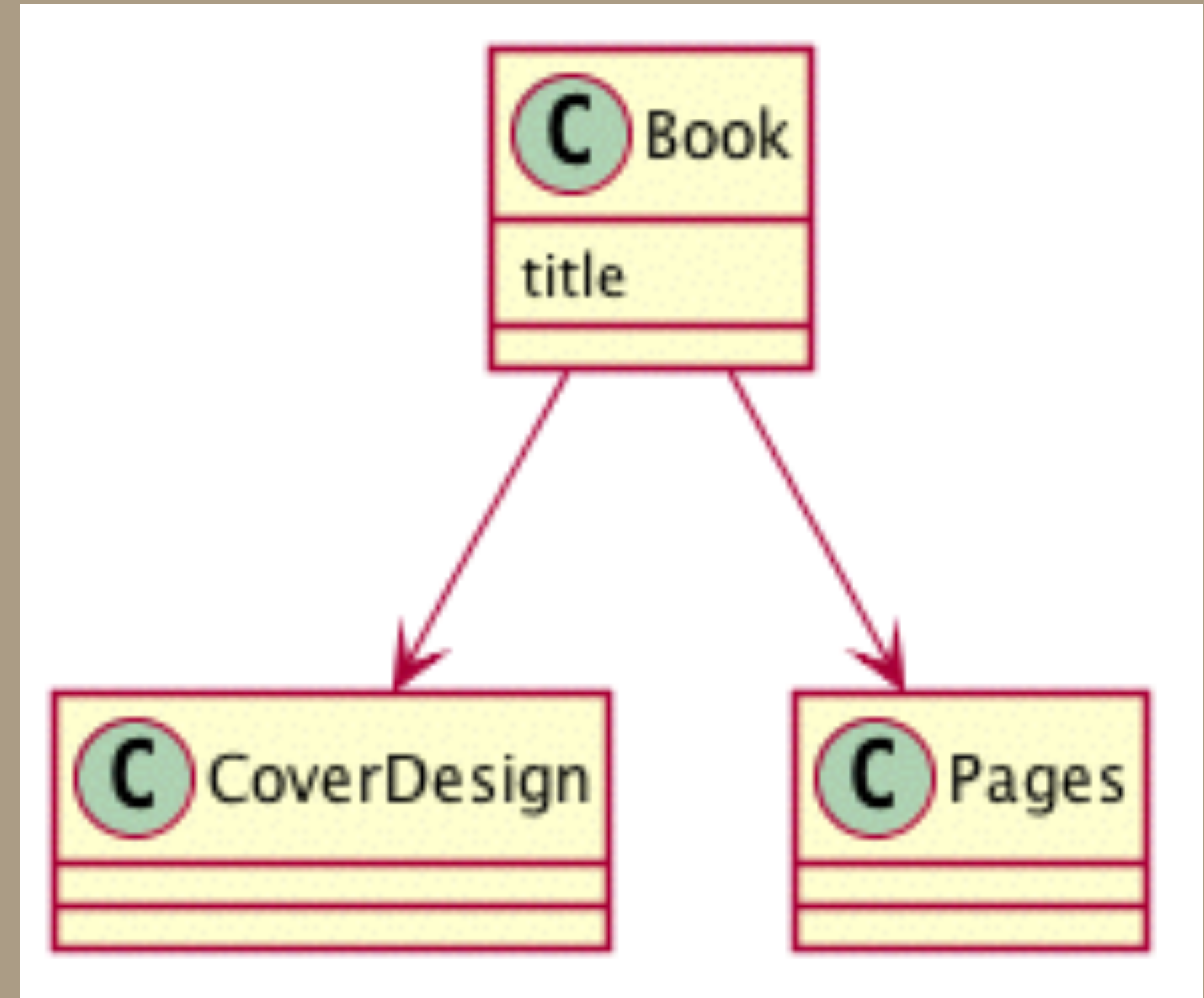
Service Objects



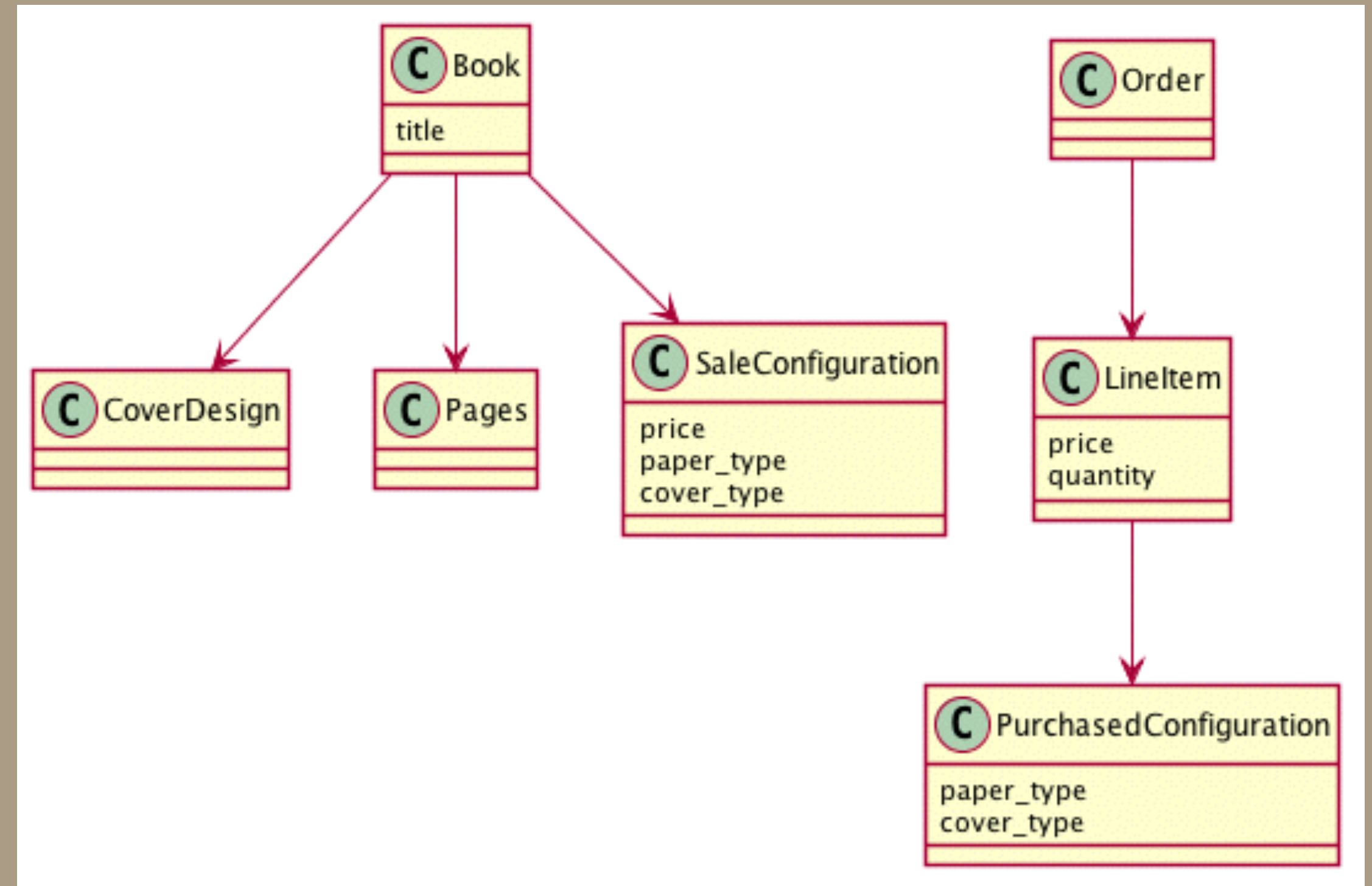
There are deeper insights to be had

Let's get down and dirty

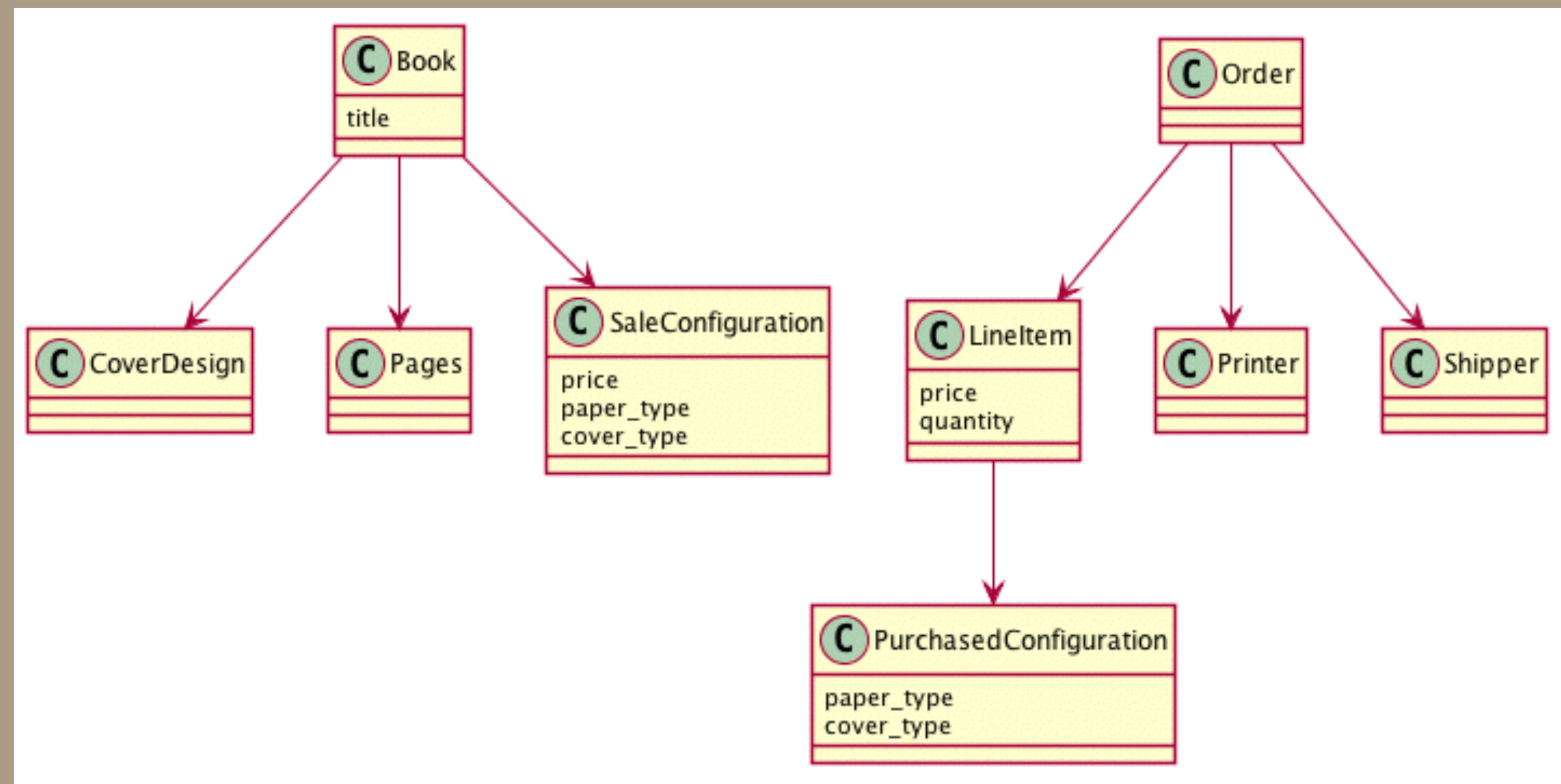
We make books



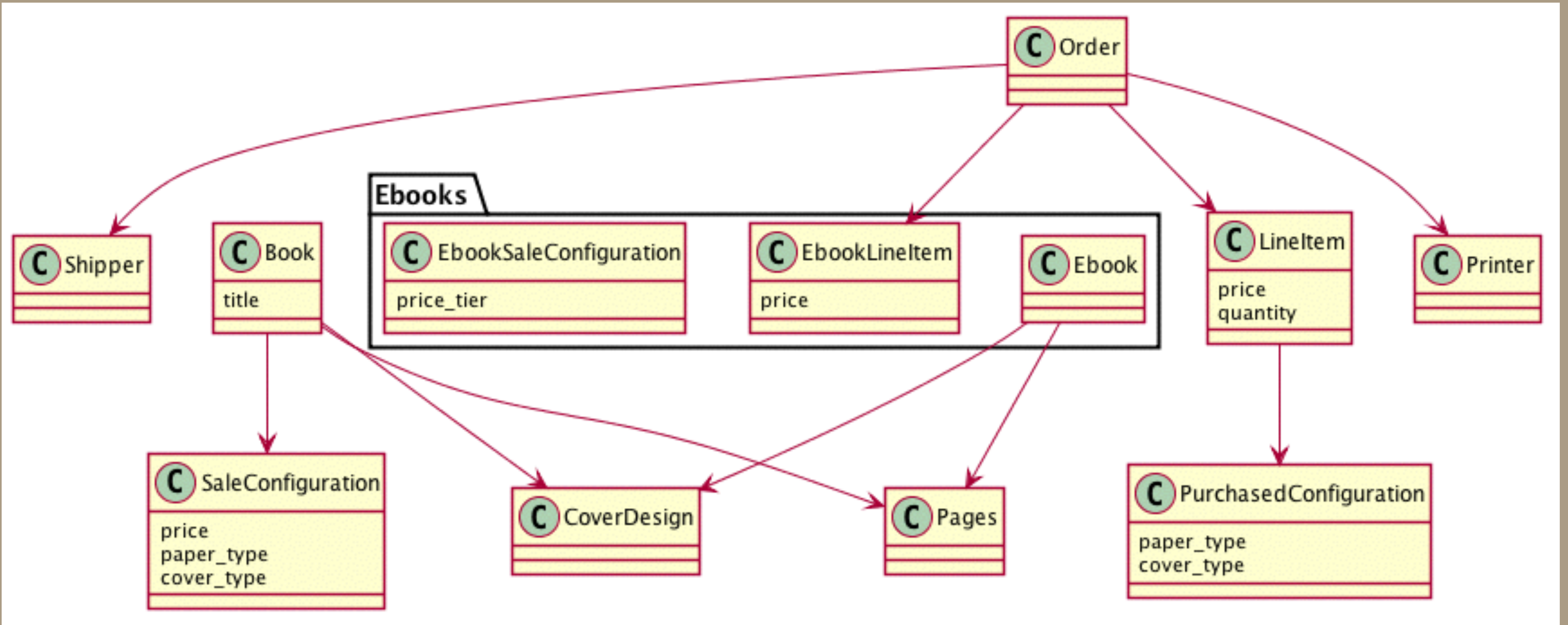
And we sell them



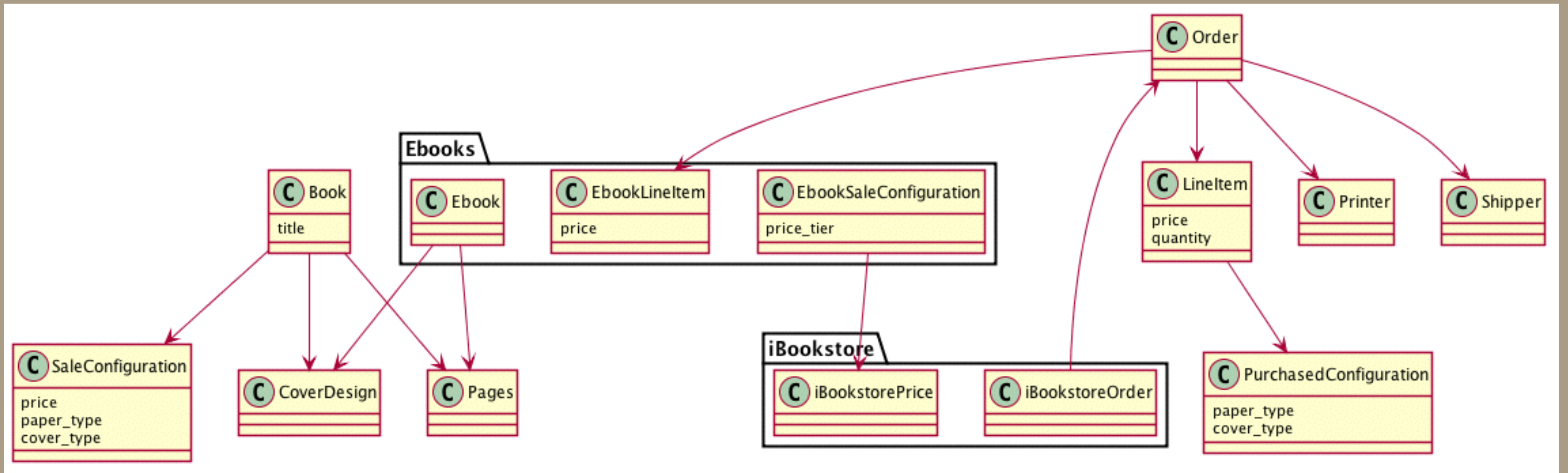
We also print and ship them



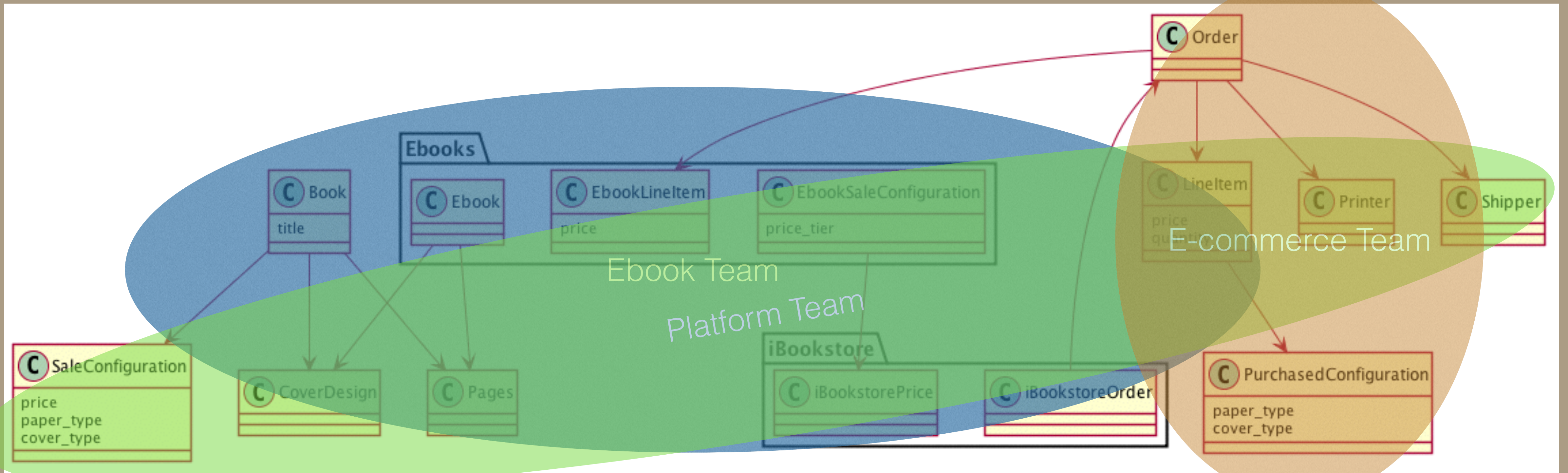
Don't forget ebooks



...now sell it on the iBookstore



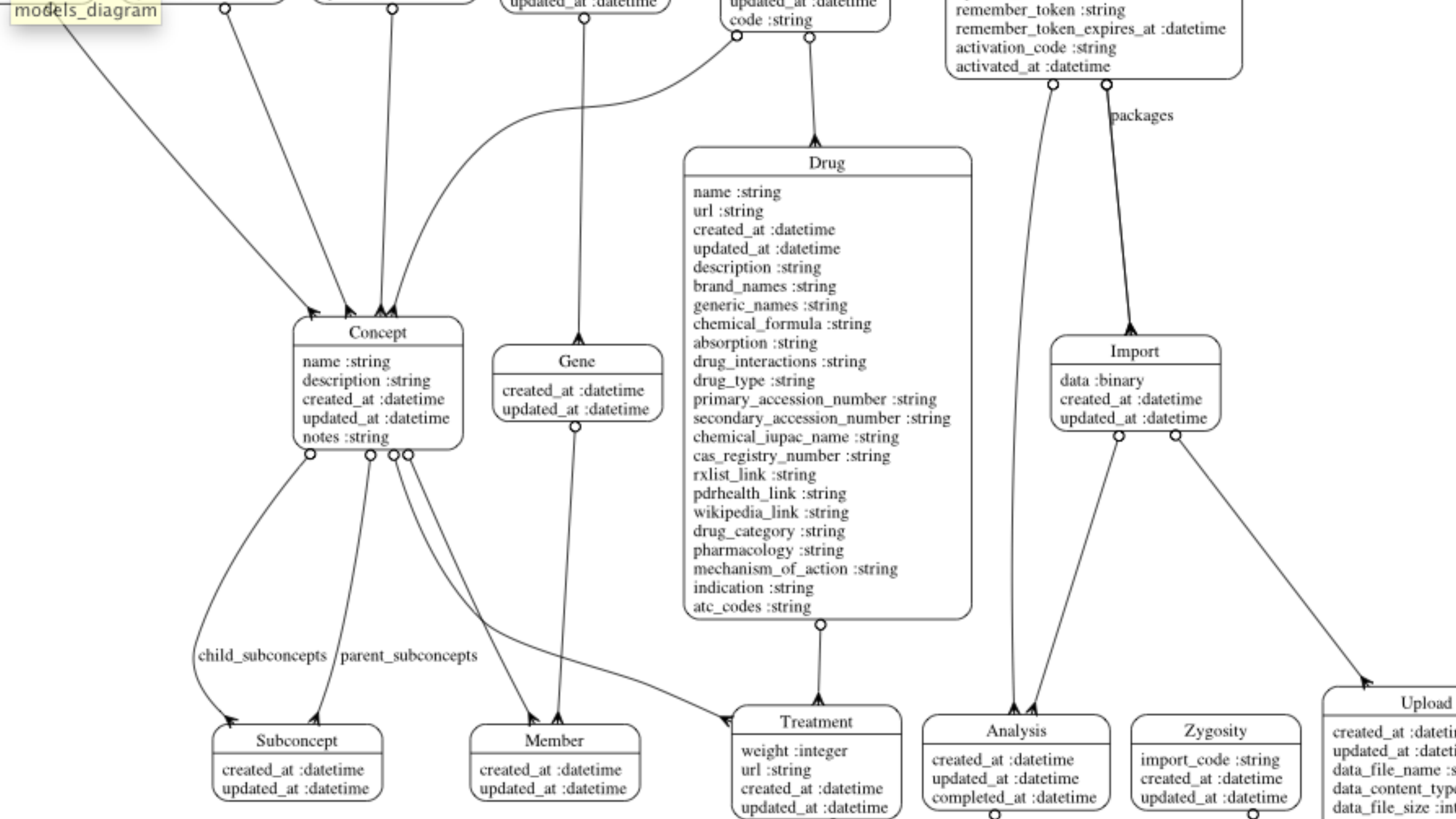
Different teams touch different parts.



Step 1: Visualize

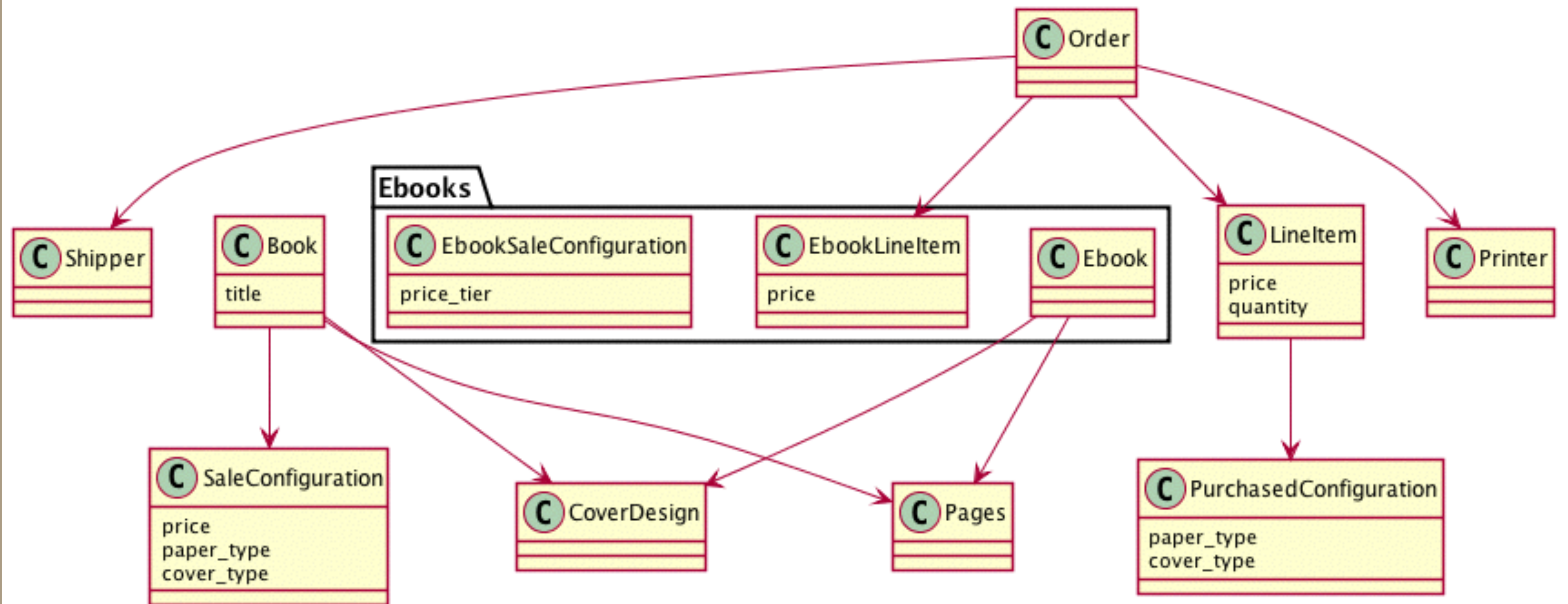
Railroady

Ruby gem to generate UML diagrams from
your ActiveRecord models



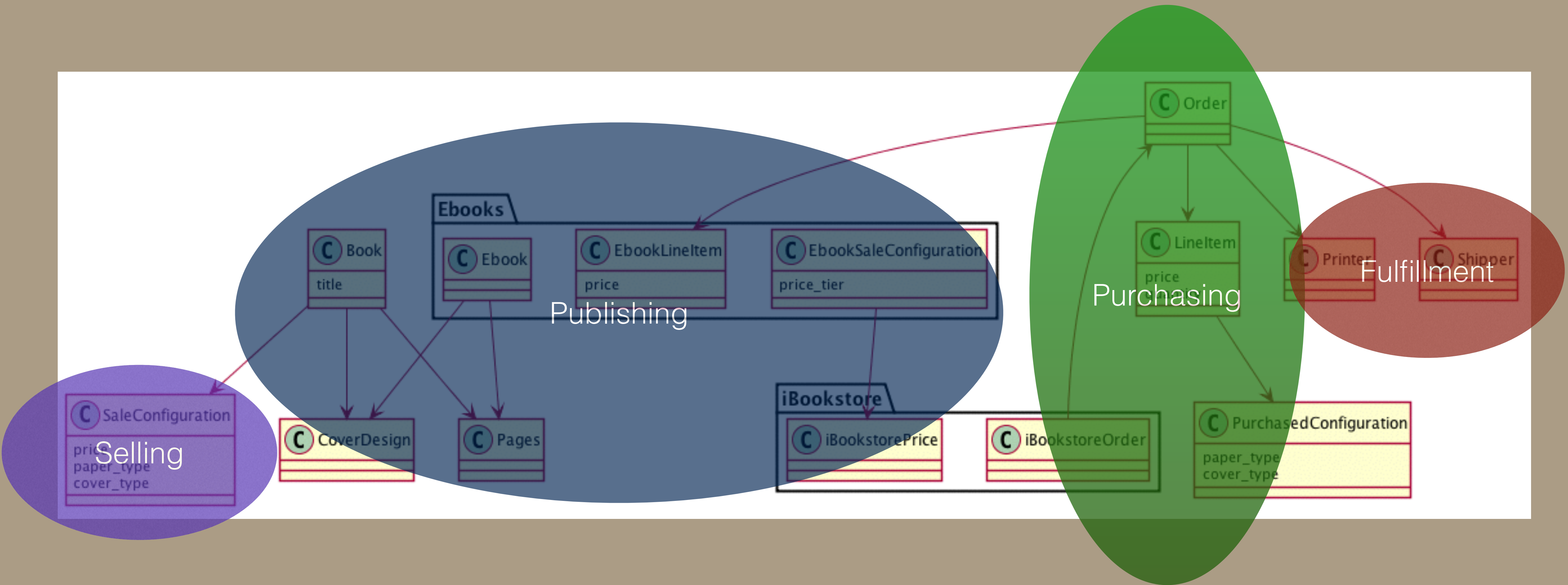
This helps you get the entire system into
your mind.

Now we've got UML.



Domain Mapping

Domain: A set of related features that accomplish something for the business.



Bounded Context: A software system that accomplishes some set of features.

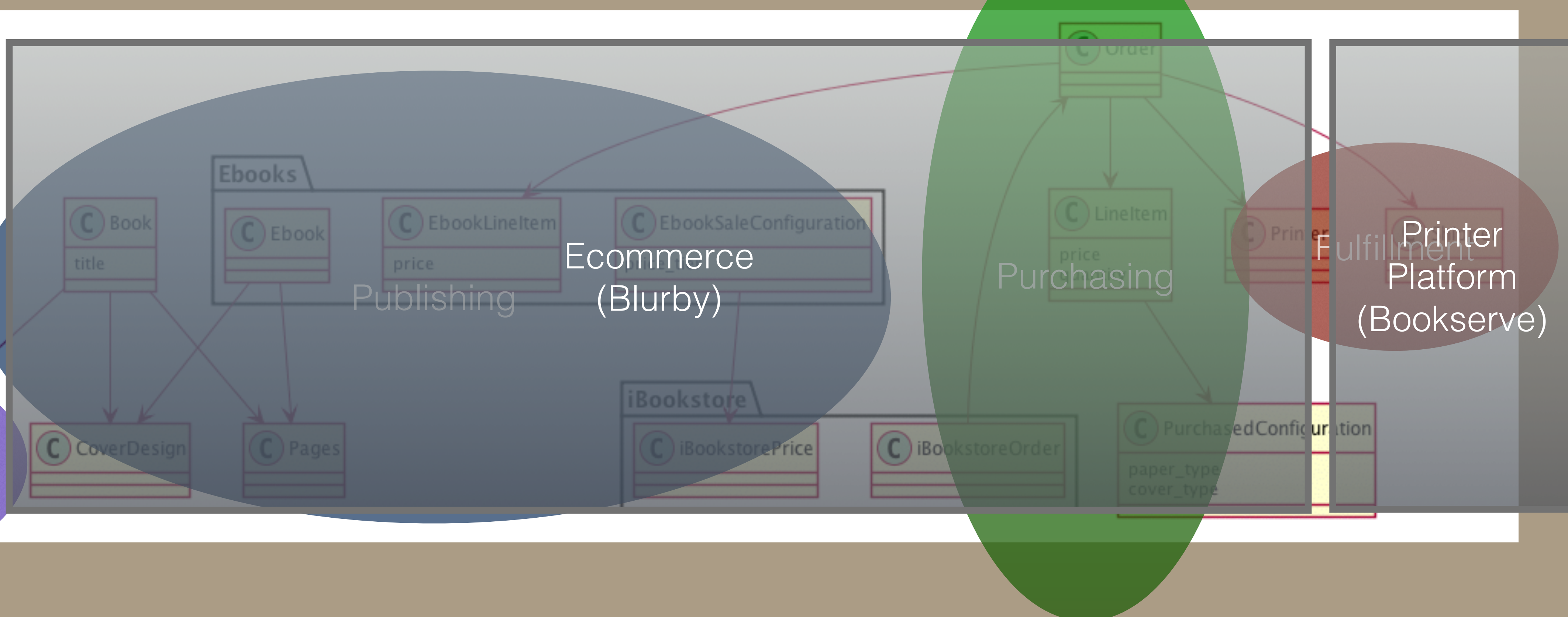
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(Hemingway)

Selling

Publishing
Ecommerce
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Purchasing

Printer
Fulfillment
Platform
(Bookserve)



**Author Tools
(Hemingway)**

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Publishing

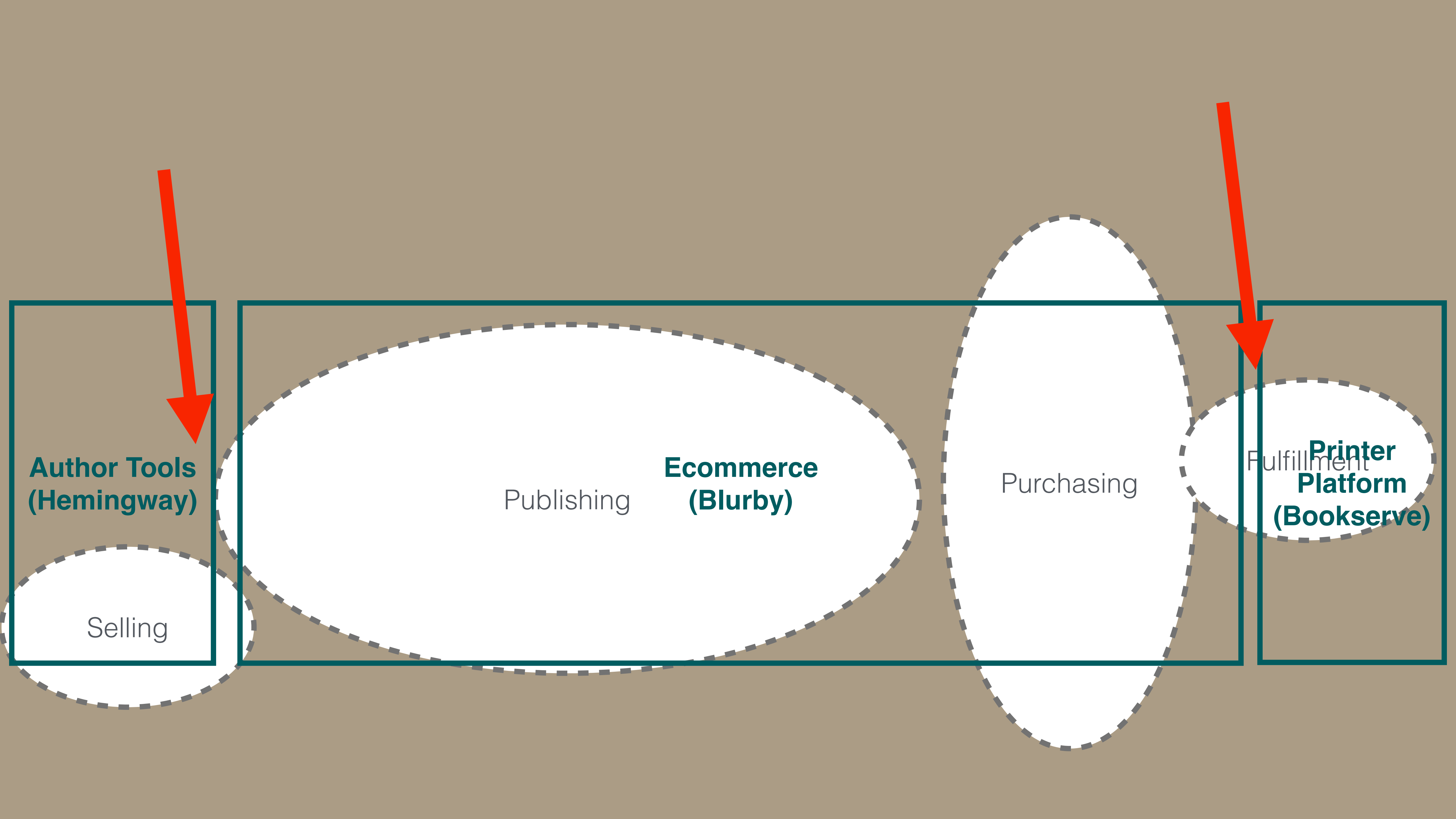
**Ecommerce
(Blurby)**

Purchasing

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Ideally, your bounded contexts map 1:1 to your domains.



Now add directional dependencies

**Author Tools
(Hemingway)**

Selling

Publishing

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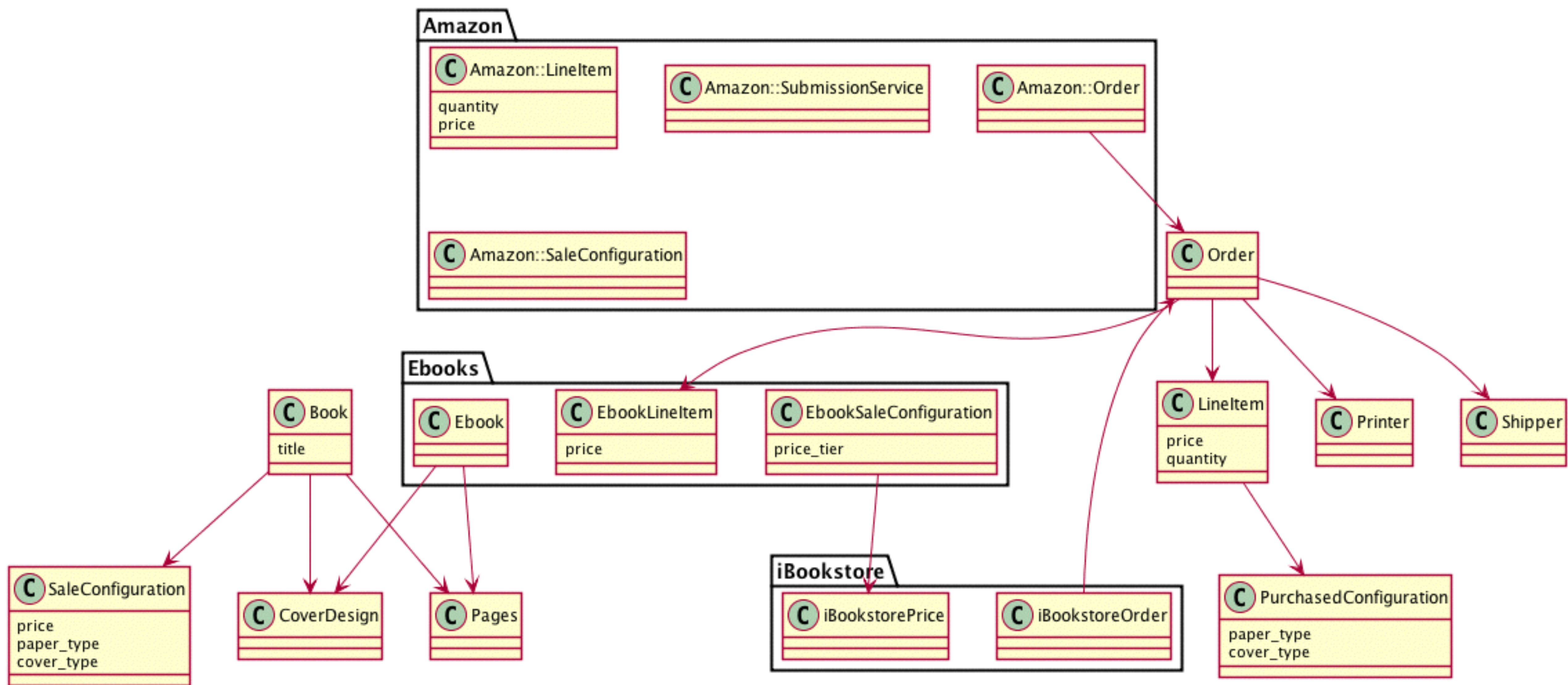
Purchasing

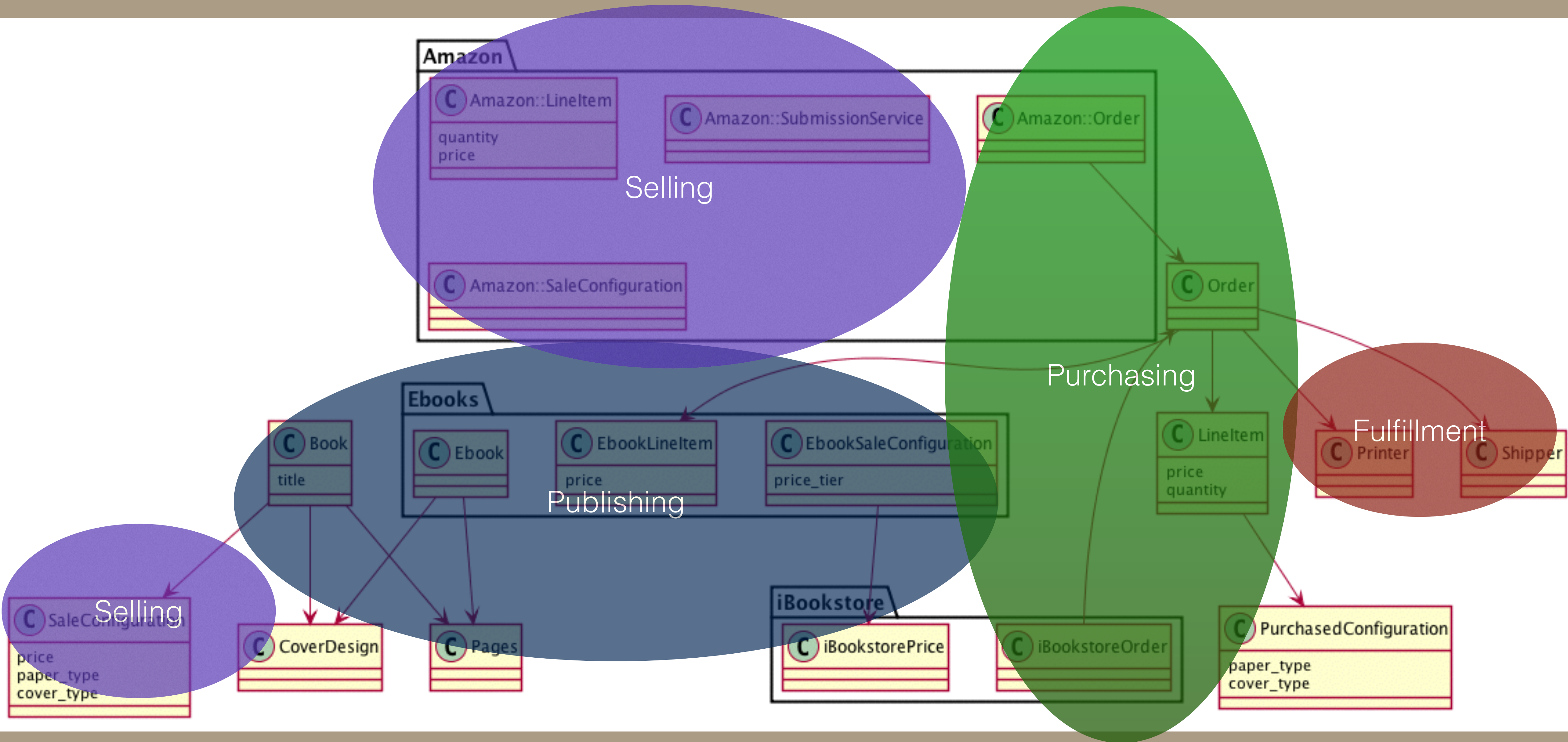
Fulfillment
**Printer
Platform
(Bookserve)**

This helps you see dependencies between teams, where communication will be most important.

Step 2: Use a business driver to make a change.

Hey! Let's sell our books on Amazon!





Slim down your core domain objects

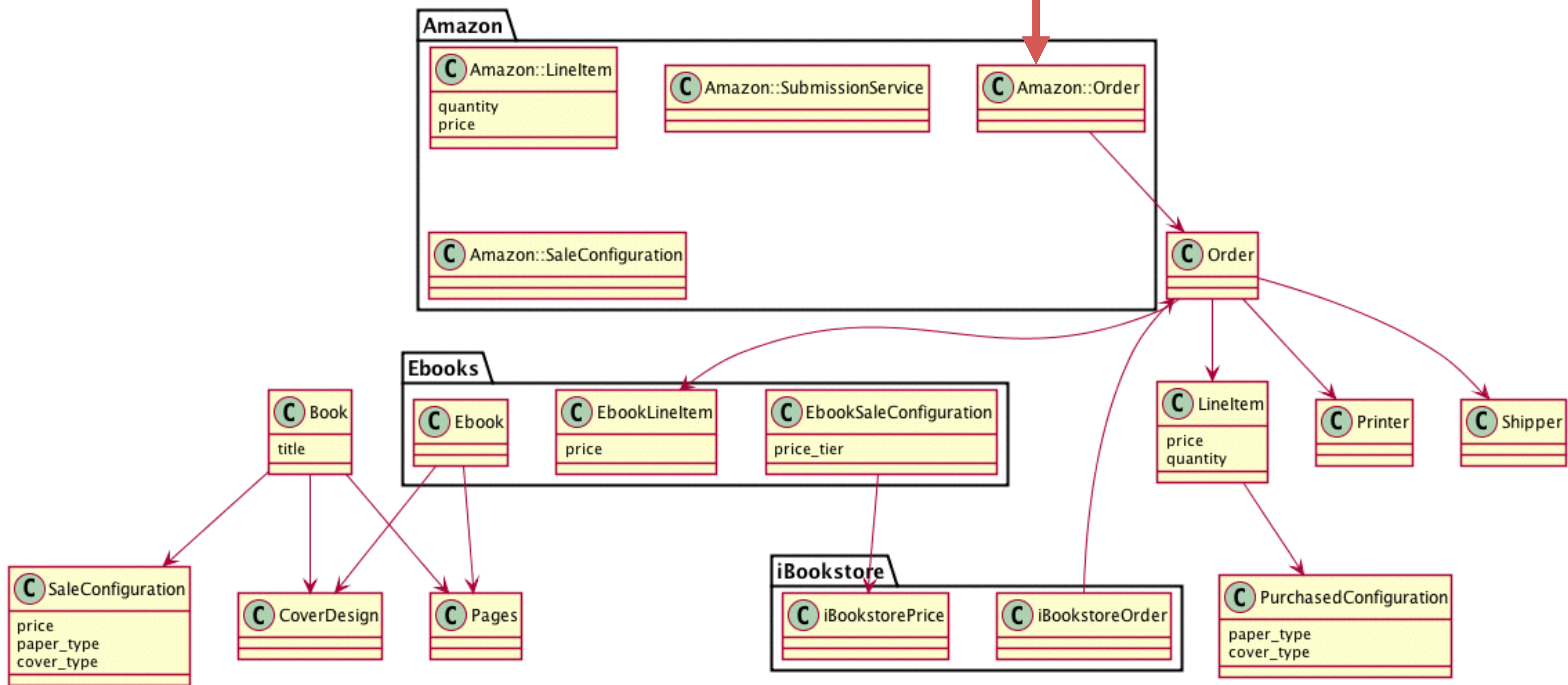
SaleConfiguration
EbookSaleConfiguration
AmazonSaleConfiguration

SaleConfiguration
EbookSaleAttributes
AmazonSaleAttributes
BlurbSaleAttributes

Enforce Domain Purity

No joins between domains

Use aggregate roots to enforce a single entry
point

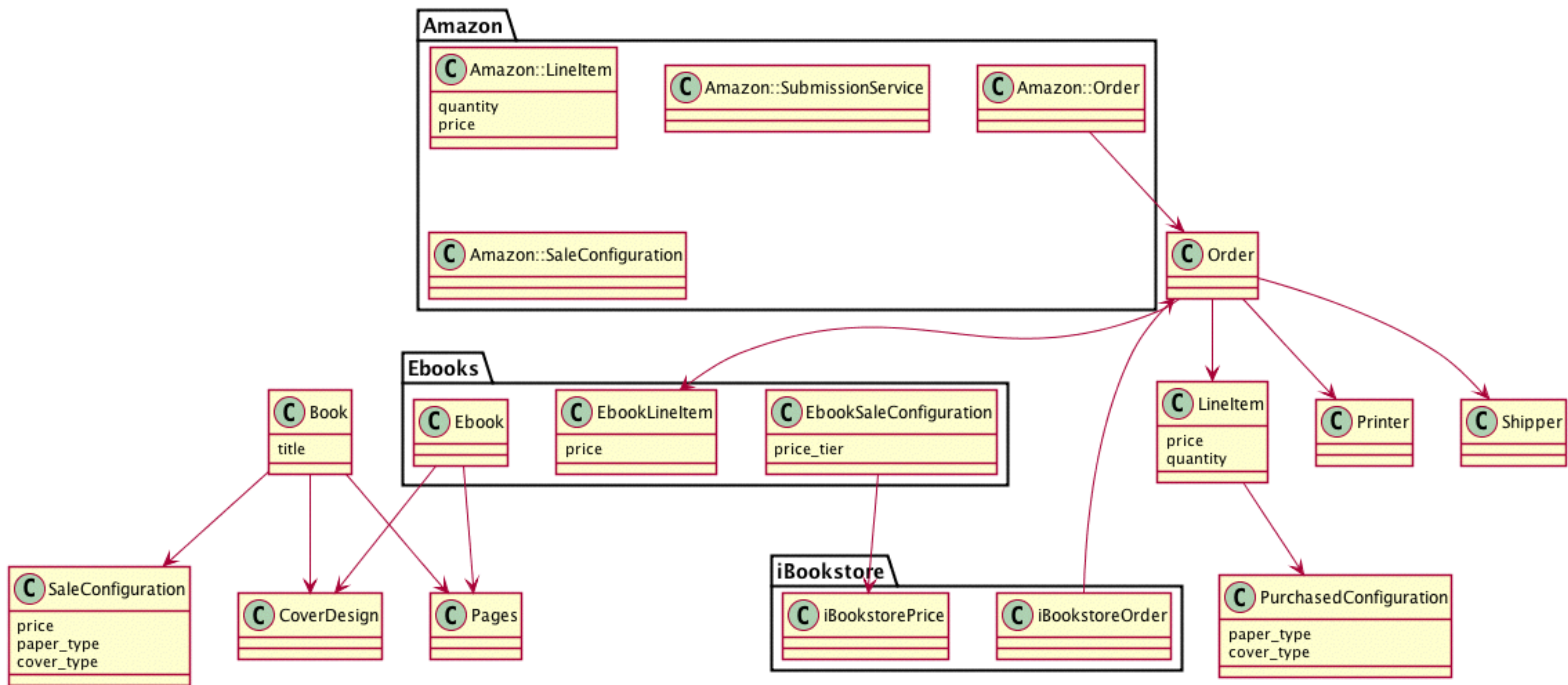


Namespace the Domain

app/services/amazon/...

Amazon::Foo

Use a domain events to communicate
between contexts



You can do this all in small steps!

Step 3: Toward Maturity

Namespaced Classes -> Rails Engine ->
Separate Rails Service

Introduce a pub/sub mechanism

Shared Kernel - models in a gem

So what happened?

Launched new features

Iterative refactoring - still shipping features

Domain insights

Longer-term SOA efforts

Thanks!