

# MVC

MODEL - VIEW - CONTROLLER

... YOU WALK INTO A CAFE





...

You request a  
large Cappuccino

Barista is the Controller  
(Drinks Controller)





... BARISTA KNOWS IT'S A COFFEE BASED DRINK

## *Model Drink*

THERE ARE MANY  
INSTANCES OR  
KINDS OF "DRINK" ON THE MENU





# EACH DRINK...

- HAS A NAME
- HAS A RECIPE
- HAS A INGREDIENTS, ETC.

id		name	recipe
1	★	Cappucino	1/3 steamed milk, espresso, coccoa powder
2		Late	espresso, 2/3 steamed milk
3		Machiatto	espresso, 1/3 steamed milk
4		Americano	water, coffee

(drinks database) ...  
some drinks have same ingredients



BARISTA PRESENTS ...



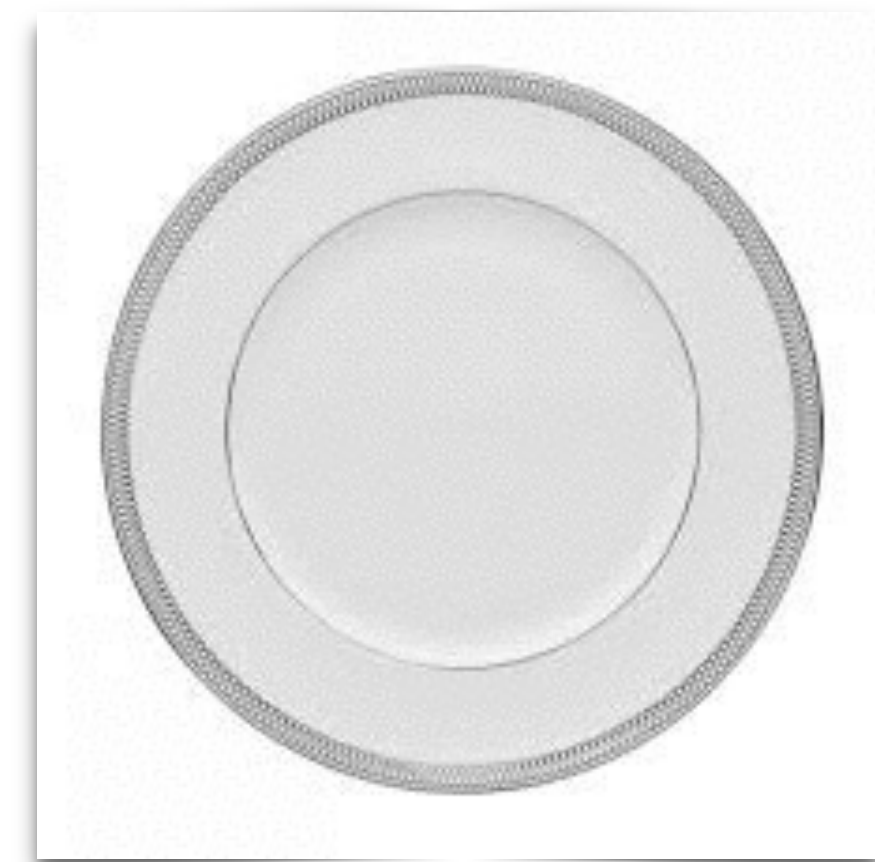
... THIS VIEW



NOTICE ... CUP IS THE "VIEW"



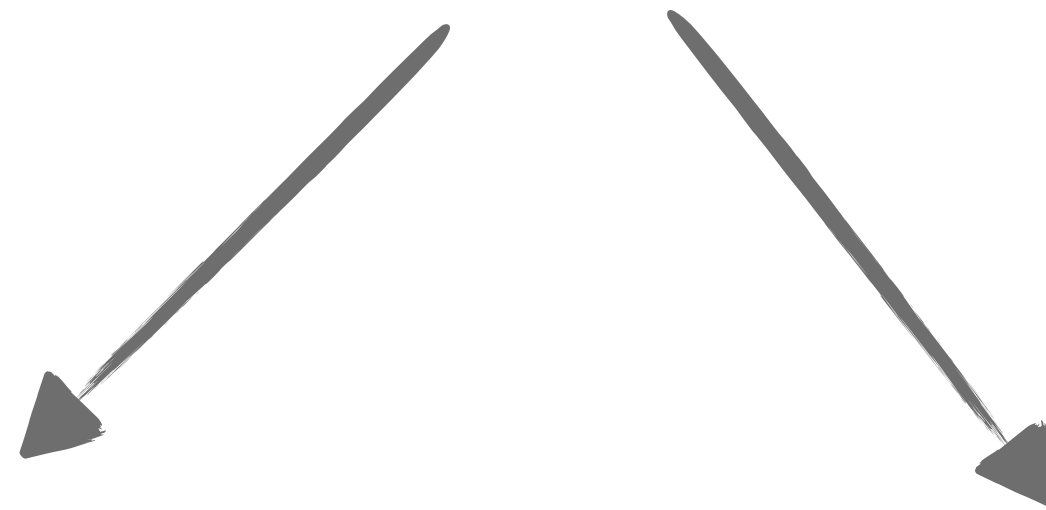
... NOT A BUCKET OR PLATE



makes things happen

# THE BARISTA (CONTROLLER)....

INTERACTS WITH



THE "VIEW"



THE "MODEL" - DRINK



# VIEW IS ....



THE “VIEW”

... only responsible for presentation,  
little logic, no computation

... only displays/renders the Model “drink”

# MODEL IS WHERE ....



THE “MODEL” - DRINK

... most of the computation/logic, i.e  
figuring what ingredients should go with  
what.

... only displays/renders the Model “drink”






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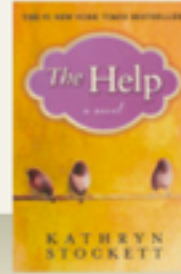



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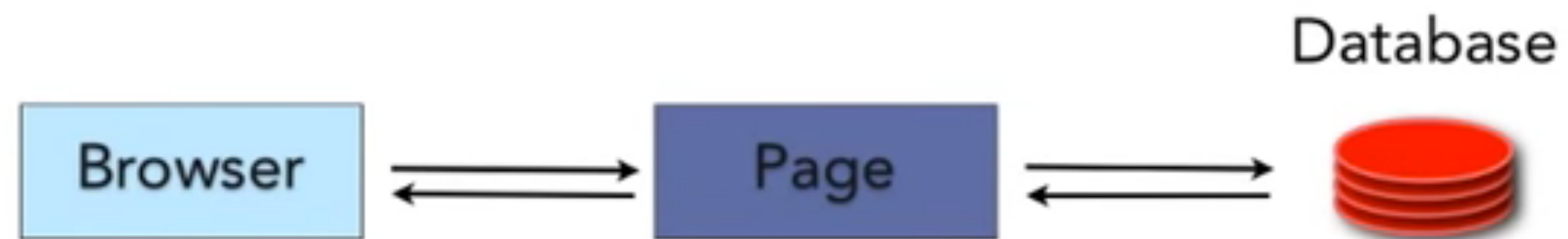
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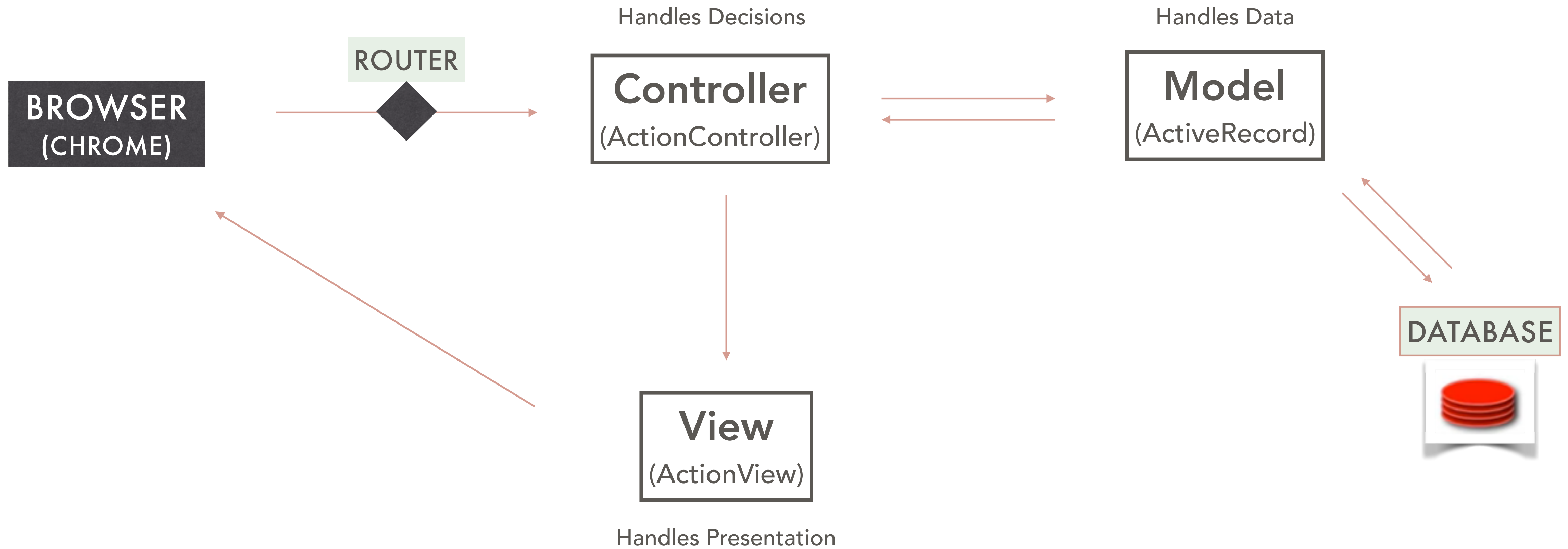
# Basic Web Architecture



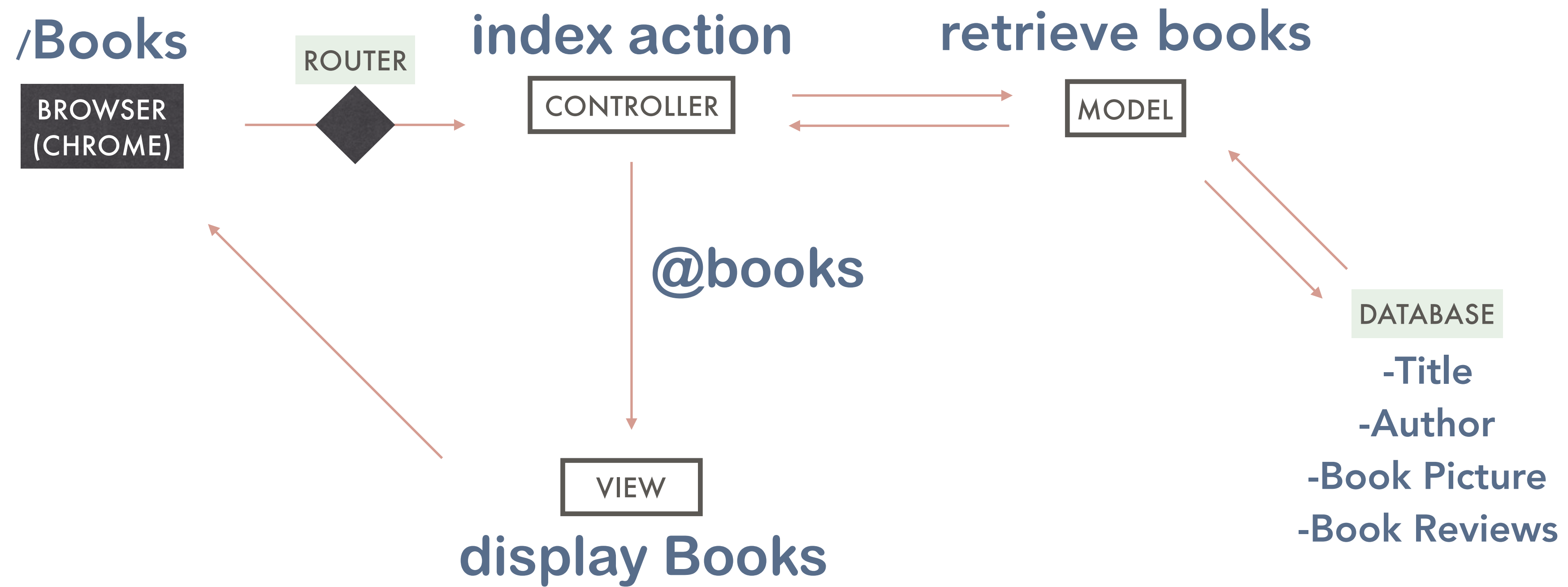


# MVC

Beautiful Rails Architecture



# MVC





# Quick Summary

- Benefits: Clear separation of interests.
- Model (ActiveRecord) — handles relationships, validations, and business logic.
- View (ActionView) — renders view, uses ERb (embedded Ruby) for templating (the cup is a template for all drinks)
- Controller (ActionController) — Controls which view to use, makes data available as instance variables @books/@drinks. Contains several actions/defs. Controls rendering and redirection.