





ColdBox





ColdBox Platform

3.1 and Beyond

ColdBox



Who am I?



Who am I?

- ✦ **Luis Majano** - Computer Engineer
- ✦ Born in San Salvador, El Salvador -->
- ✦ President of **Ortus Solutions**
- ✦ Manager of the IECFUG (www.iecfug.com)
- ✦ Creator of ColdBox, MockBox, LogBox, CacheBox, WireBox, CodexWiki, or anything Box!
- ✦ Documentation Extraordinaire!





What we will cover?

- ✦ History of ColdBox
- ✦ What is ColdBox?
- ✦ Why ColdBox?
- ✦ How it works
- ✦ Major ColdBox Parts
- ✦ Demos
- ✦ Release Announcement



History & Facts



History & Facts

- ✦ Did not start as open source



Federal Aviation
Administration



LABEL



ESRI

www.esri.com



Amcom TECHNOLOGY

INNOVATING AT THE SPEED OF BUSINESS

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- ✦ 22 releases since July 2006
Really? Yes, Really!



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Really? Yes, Really!
- ✦ Build in Progress is 3.5
- ✦ Over 75,000 downloads
- ✦ Large Development Community



Professional Open Source



Professional Open Source

- ✦ **ColdBox Platform** is POSS
- ✦ Company backing and funding
- ✦ Professional Training Courses
- ✦ Books
- ✦ Support & Mentoring Plans
- ✦ Architecture & Design Sessions
- ✦ Code Reviews & Sanity Checks

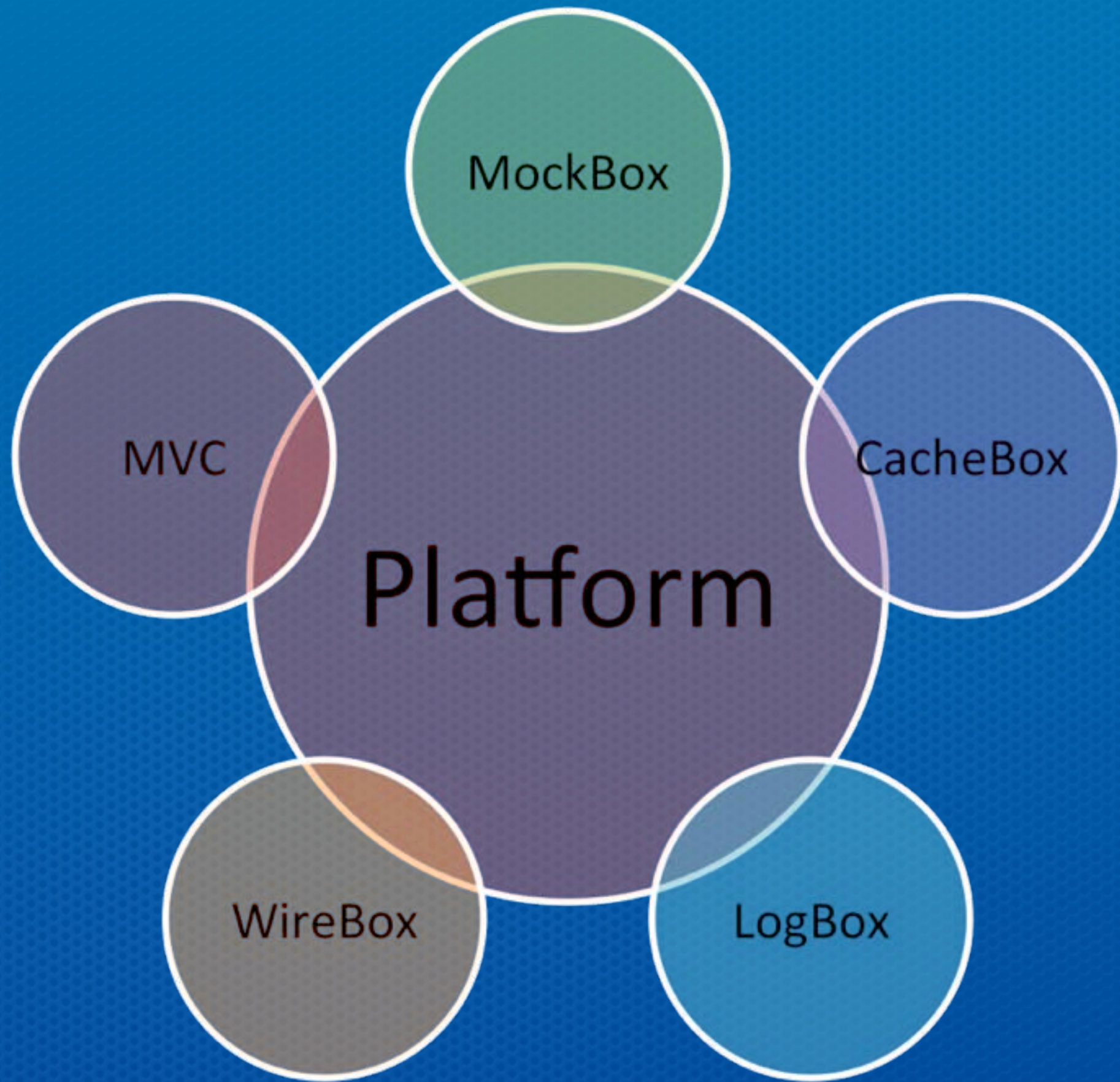


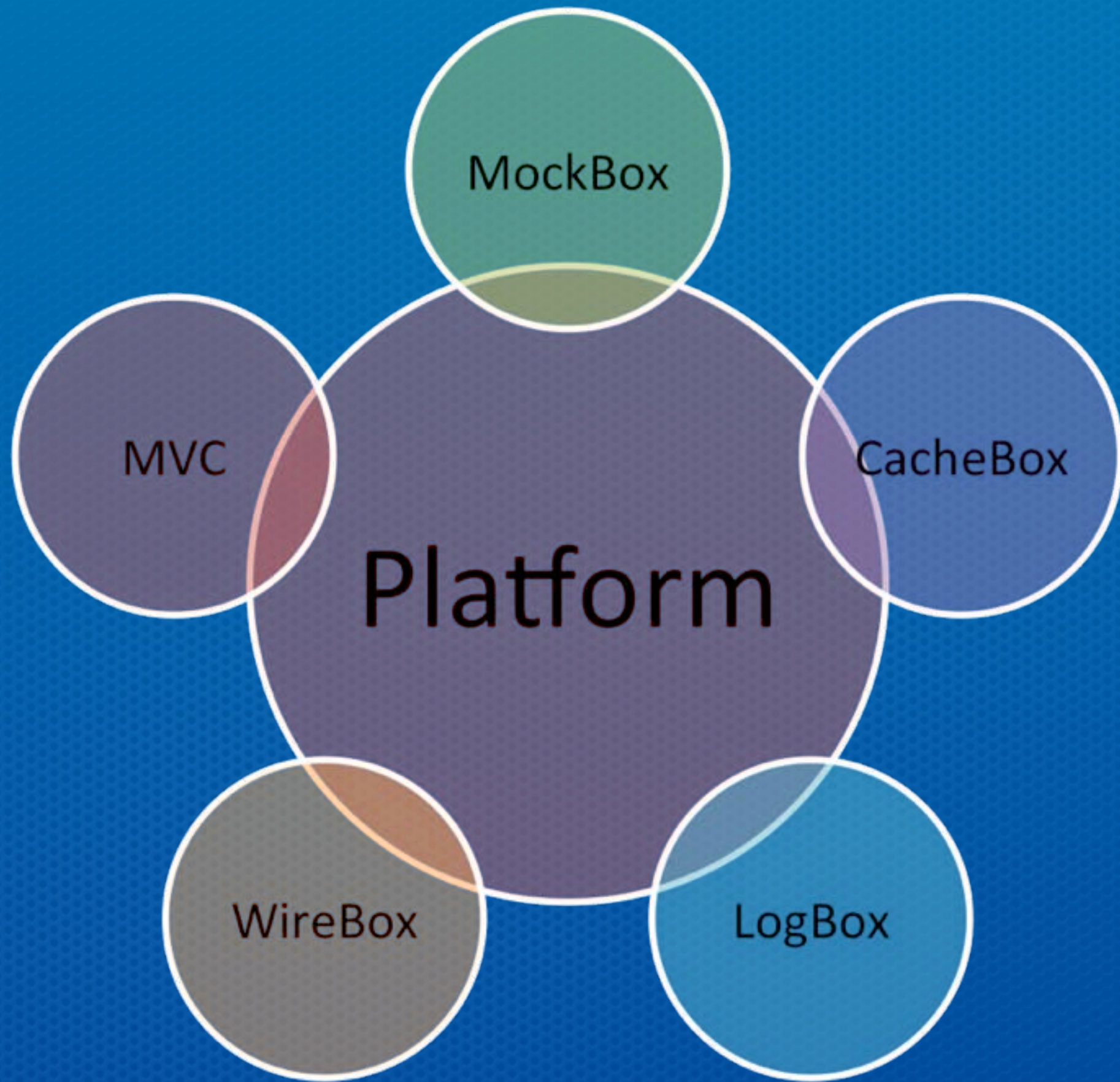


What is ColdBox?

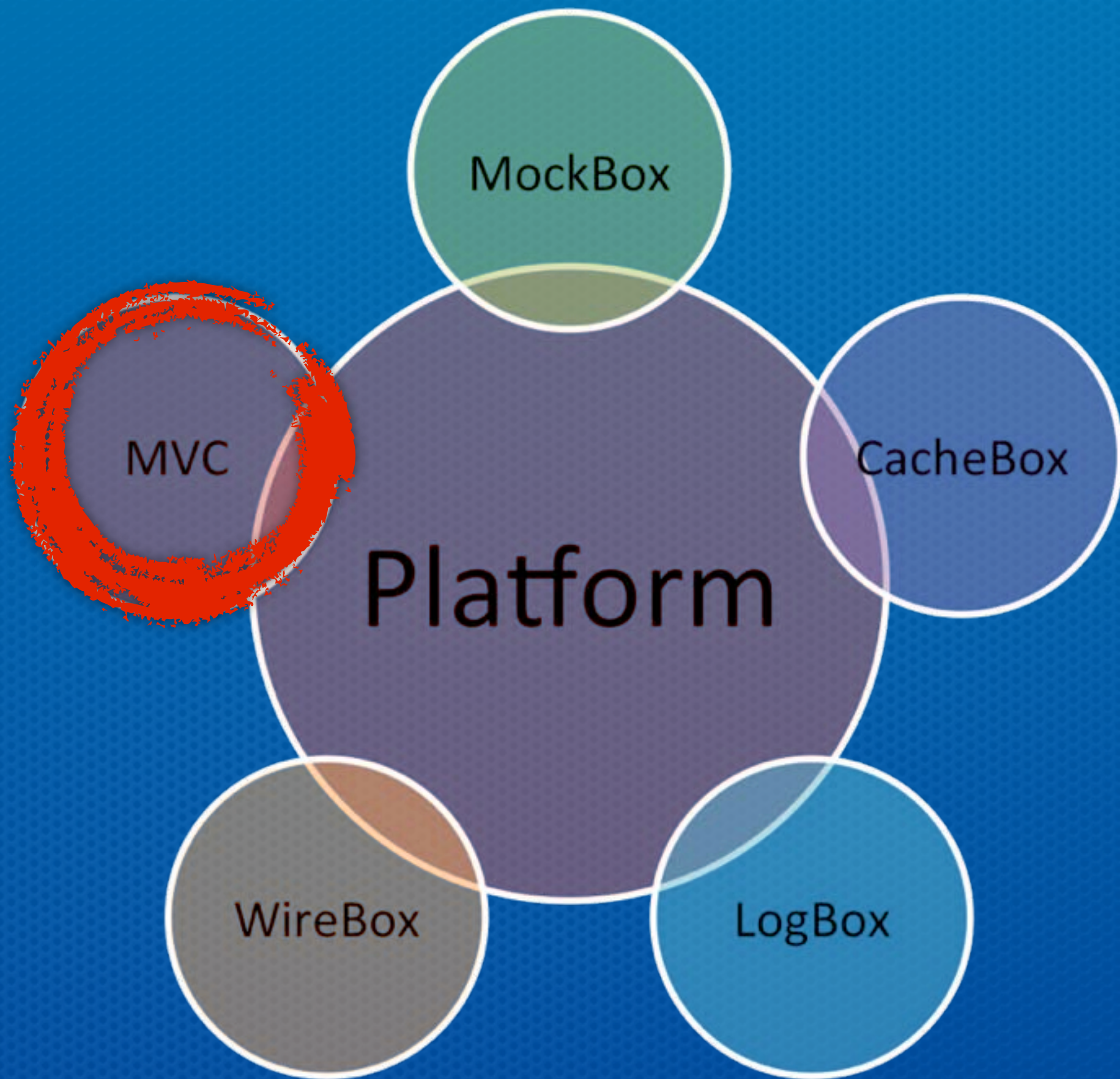


That's where I put
my booze!!

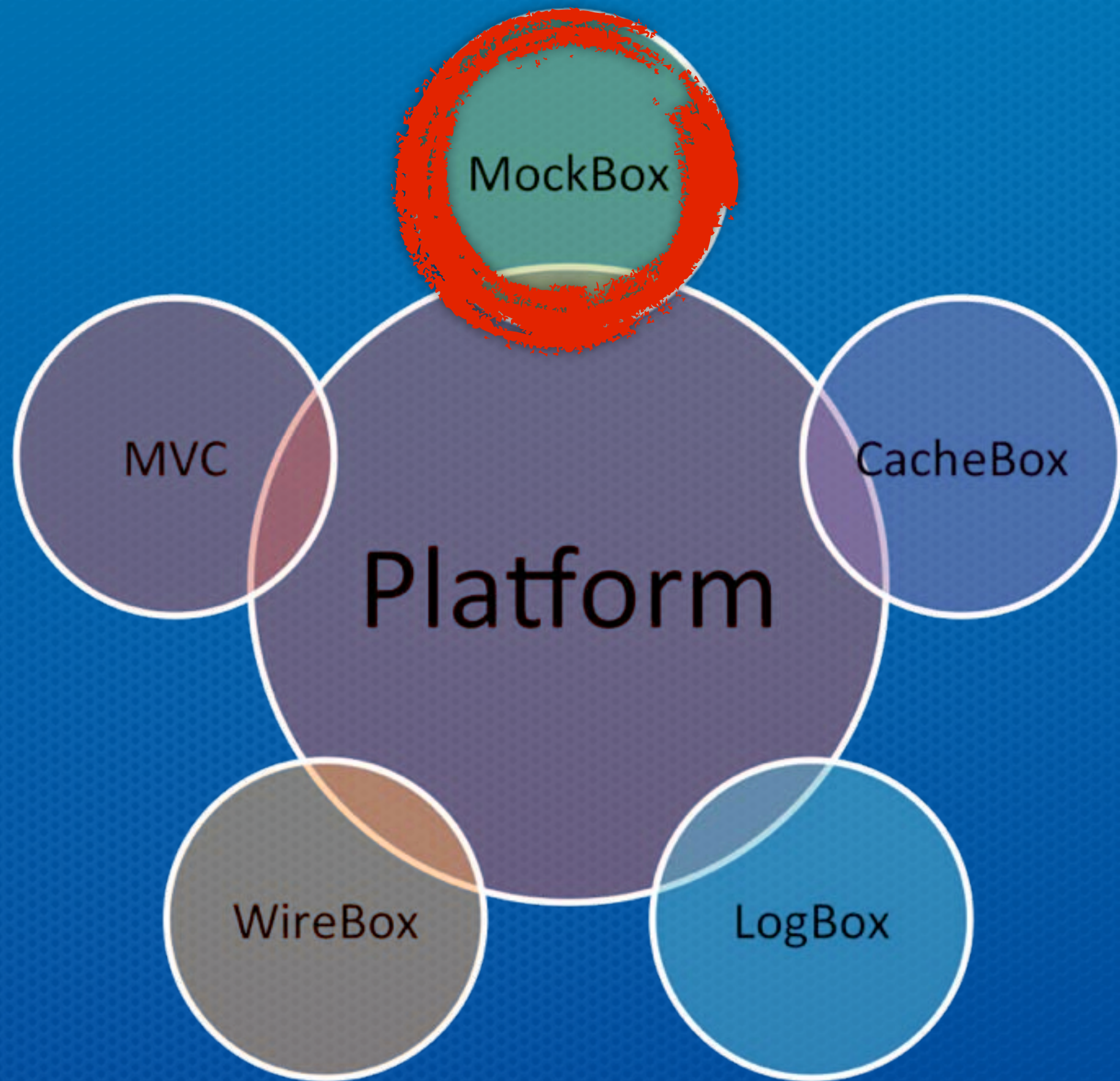




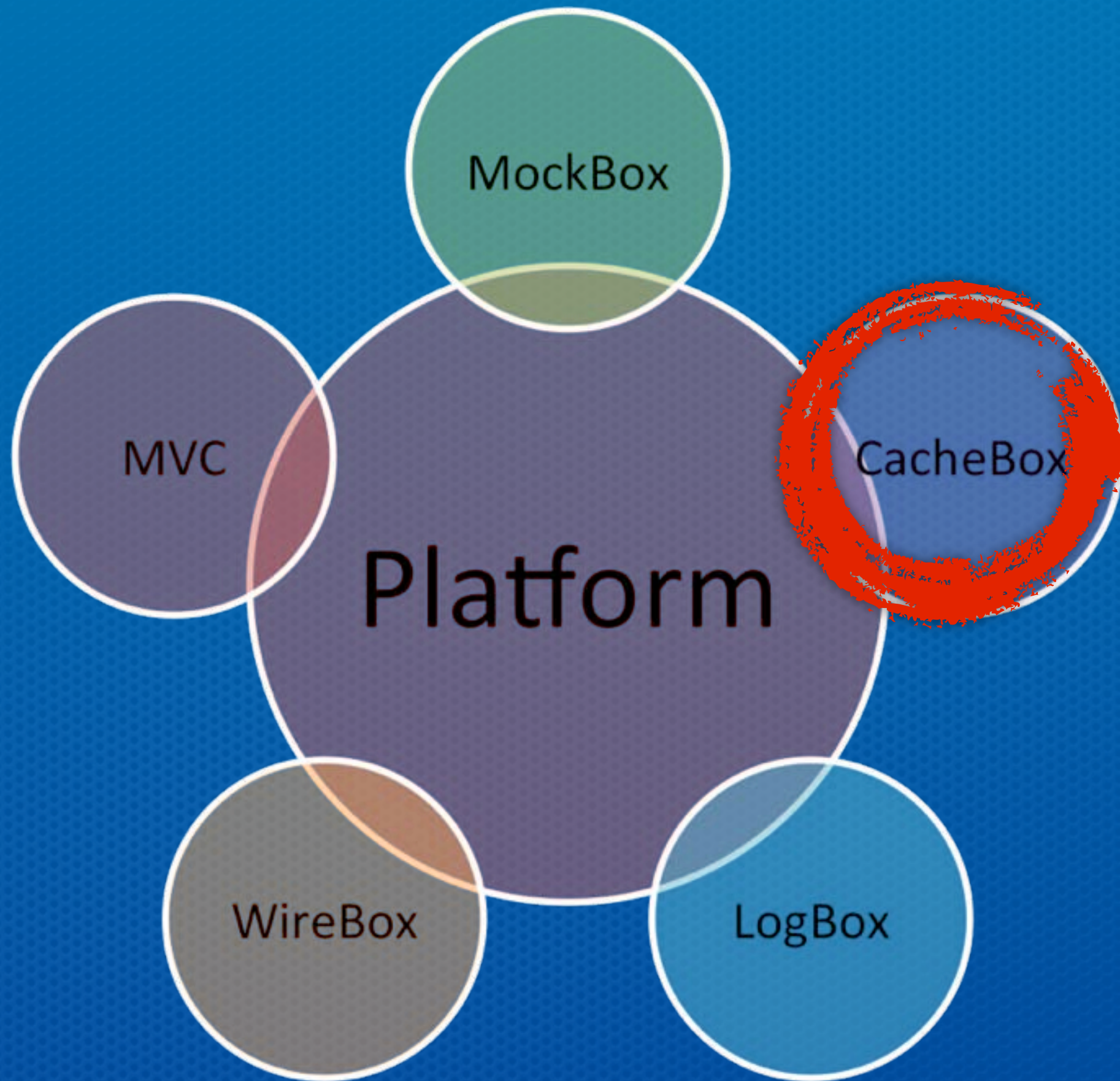
Modular Composition of Libraries



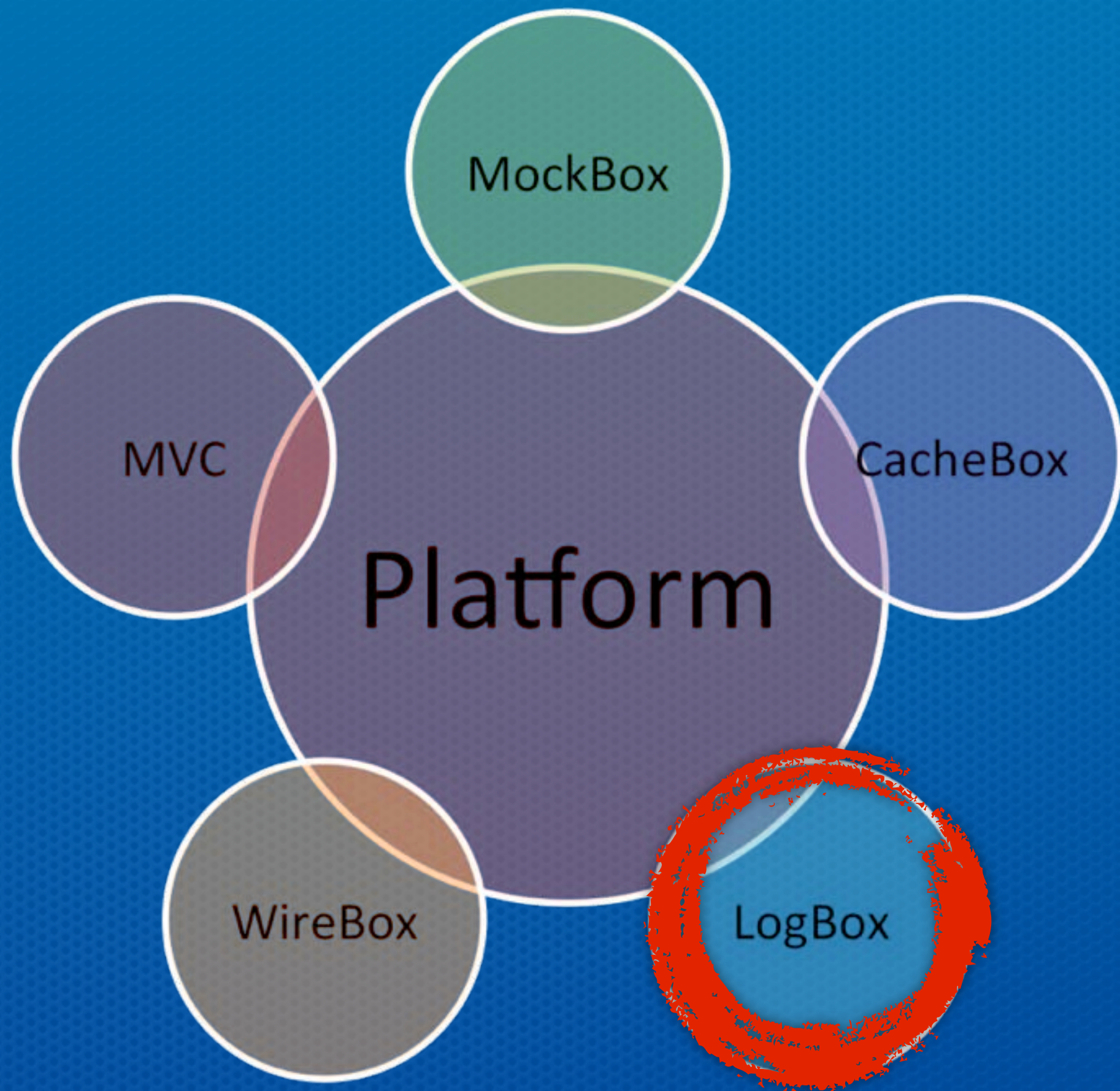
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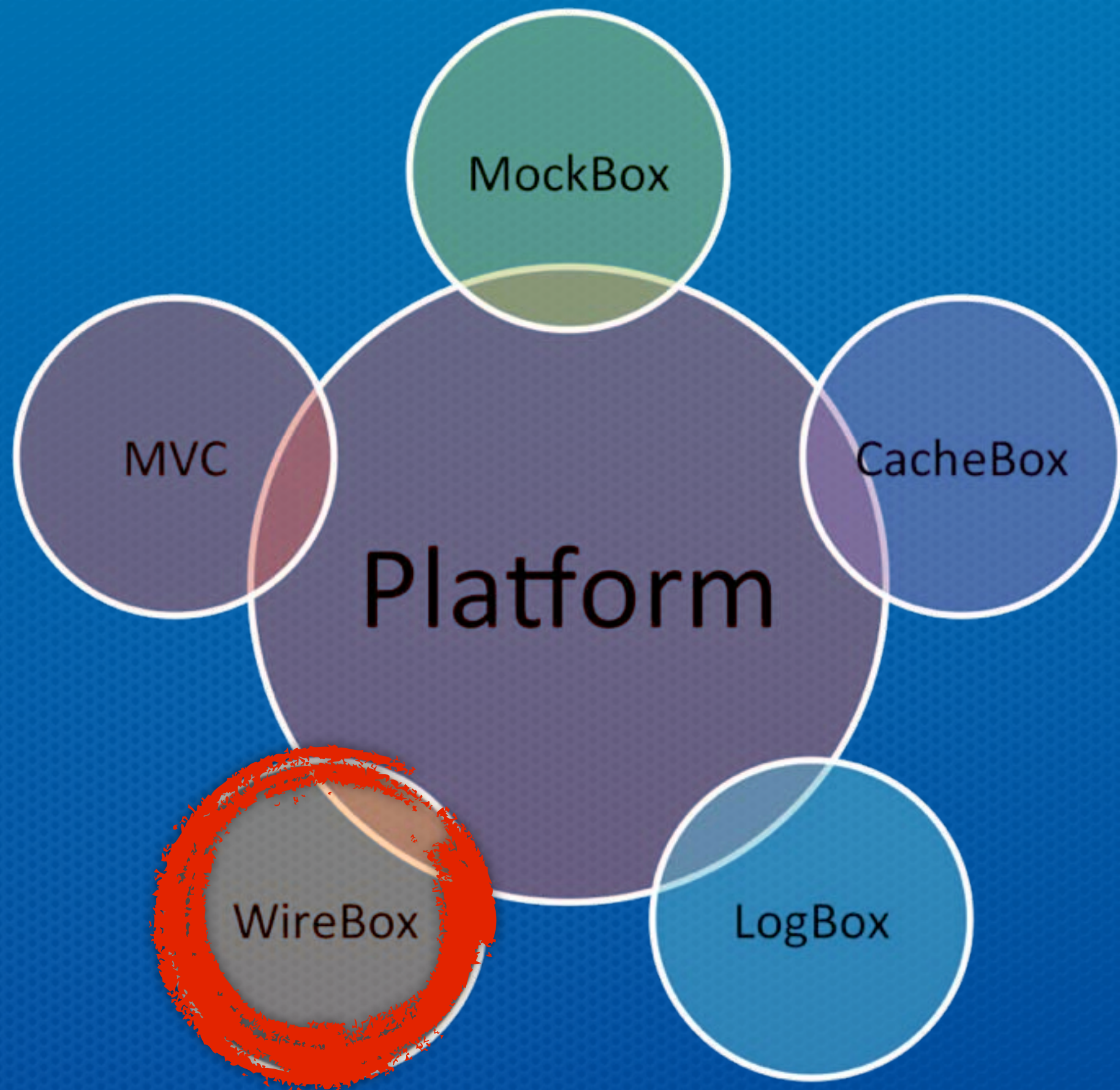
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Modular Composition of Libraries



Modular Composition of Libraries



Why so many parts?



Hmm, good question!



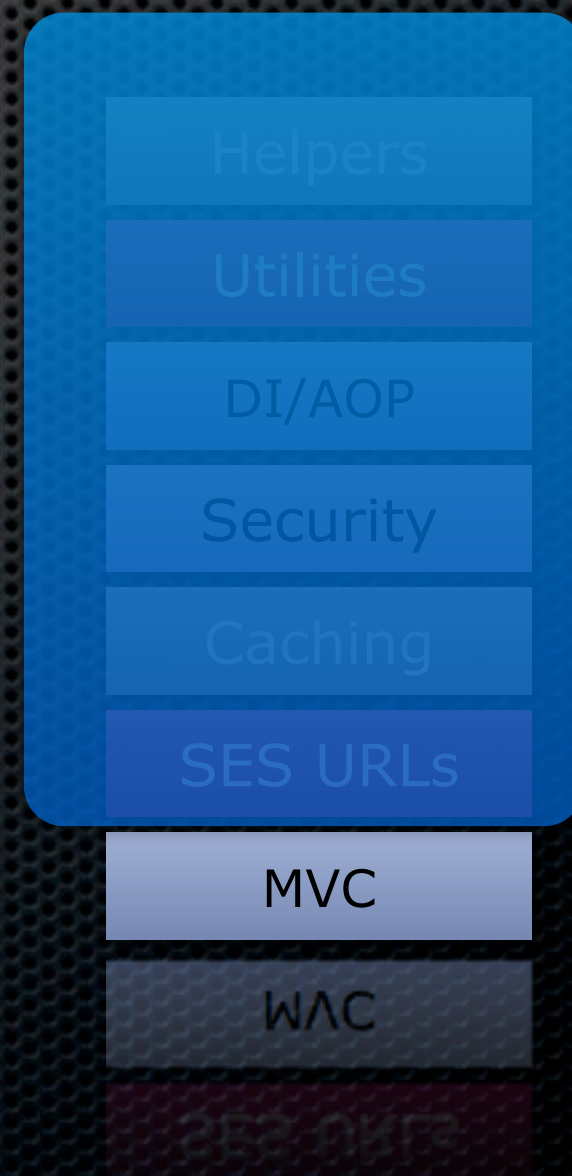
How we build our apps?





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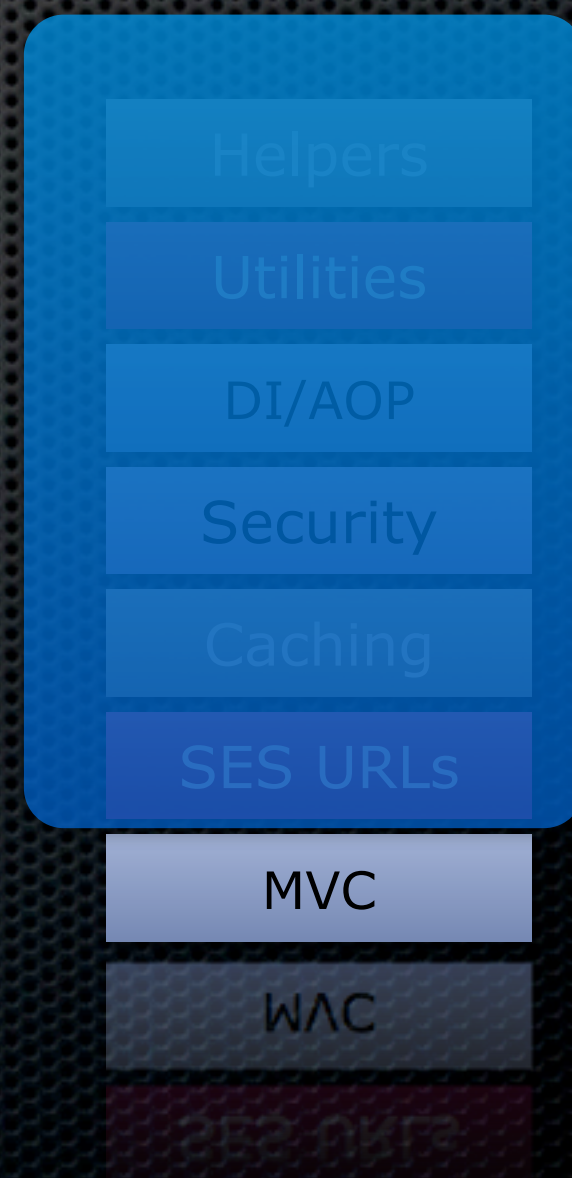
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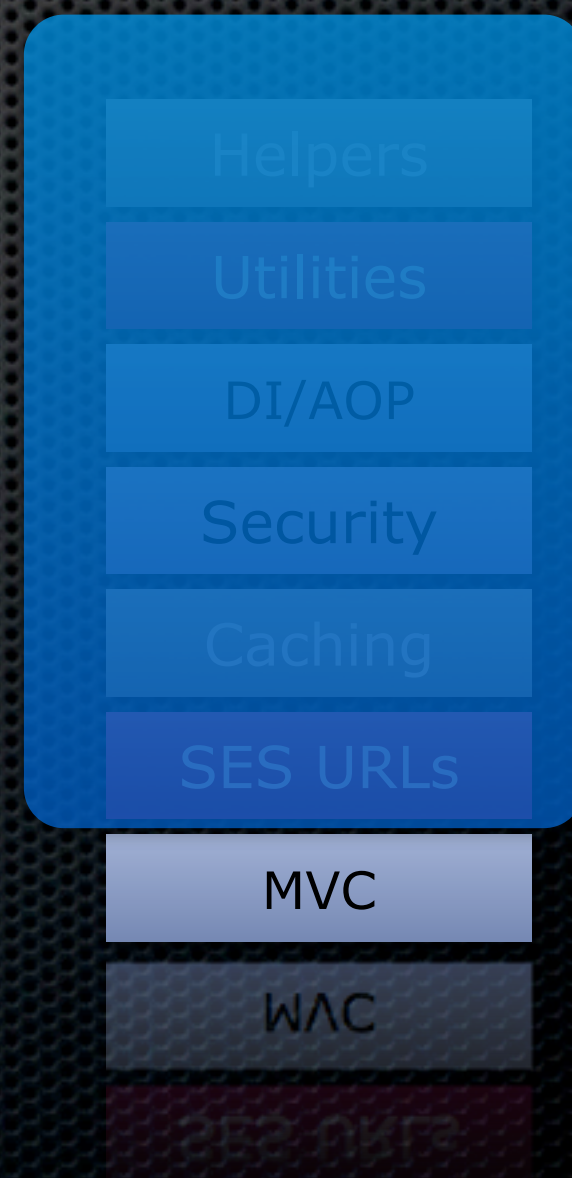
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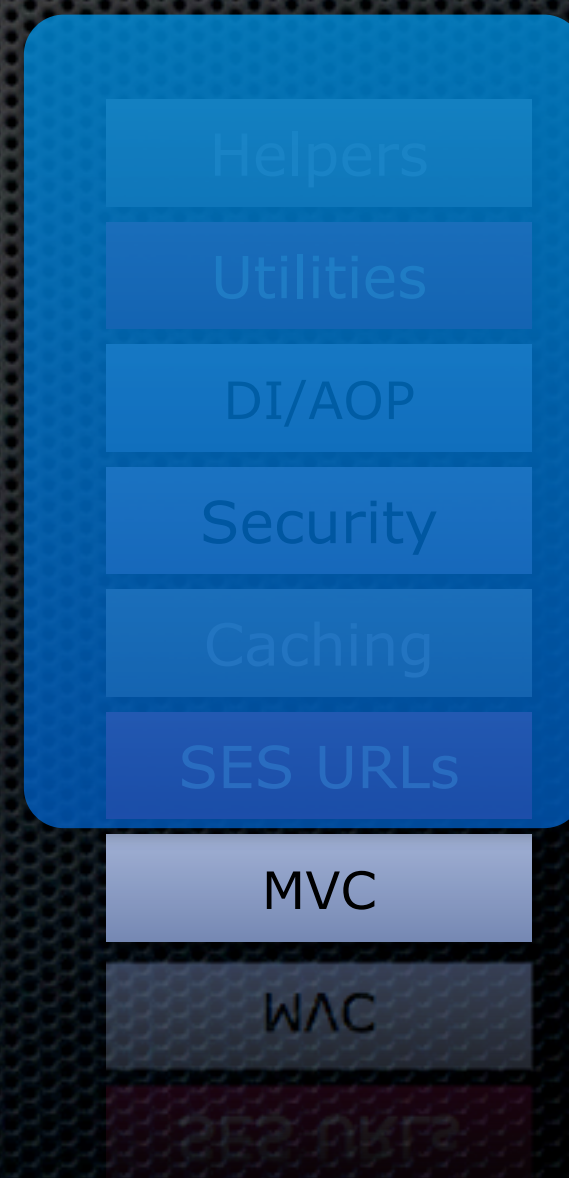
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- ✦ What about?





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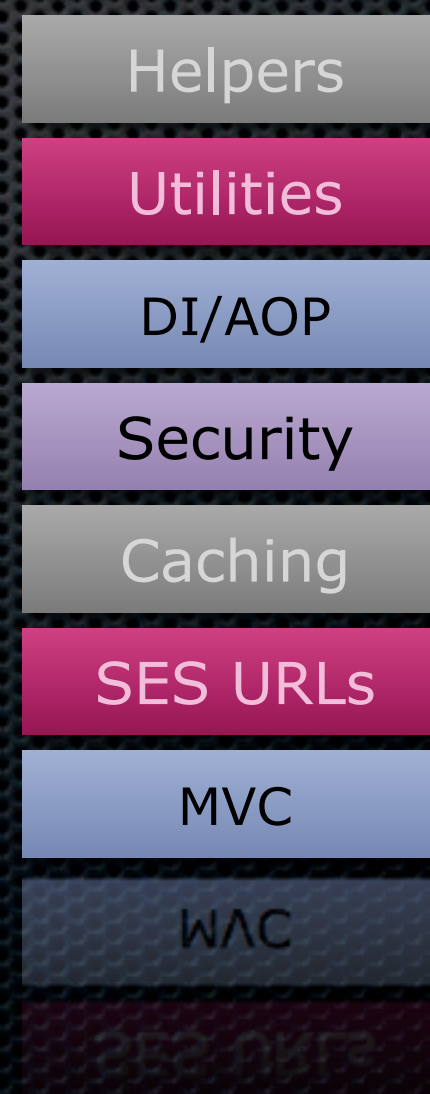
- ✦ Usually start with a need for MVC
- ✦ Requirements > just MVC
- ✦ What about?
 - ✦ SES, Caching, DI, Extensions, Security, Testing, API, Web Services





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- ✦ Usually start with a need for MVC
- ✦ Requirements > just MVC
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 - ✦ SES, Caching, DI, Extensions, Security, Testing, API, Web Services



So what do we do?



So what do we do?

- Scrape for reuse or build it **BUT**
- Reinventing the wheel



So what do we do?

- Scrape for reuse or build it **BUT**
 - Reinventing the wheel
 - Loose Time
 - Loose Patience
 - Loos Hair!







ColdBox To The Rescue



Modularity

Scalability

Extensibility

Flex/Air/
Remote

Utilities

Debuggers



coldbox



Let's Cover The Main Parts



time for happy
hour?

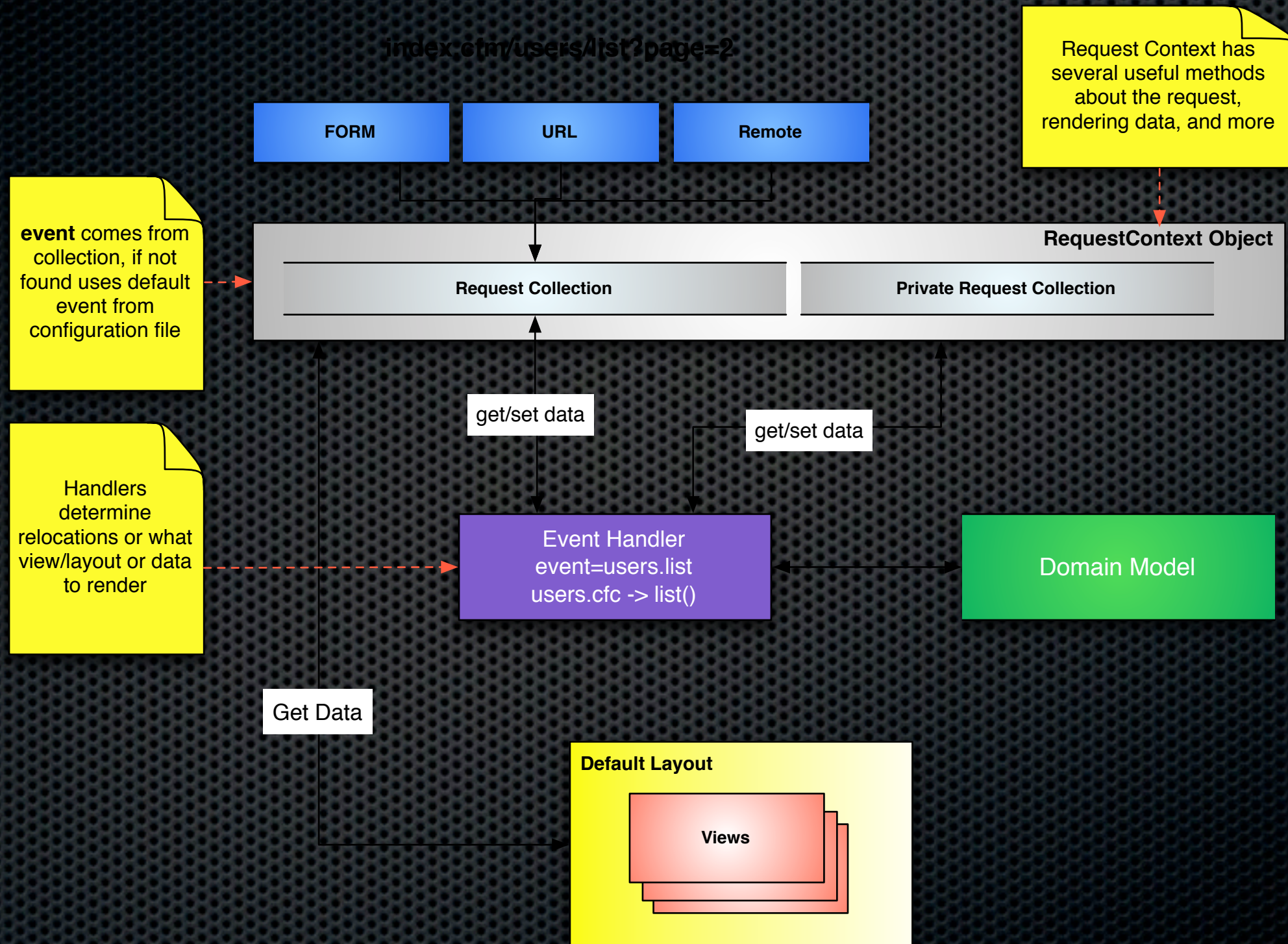


From simple to guru...

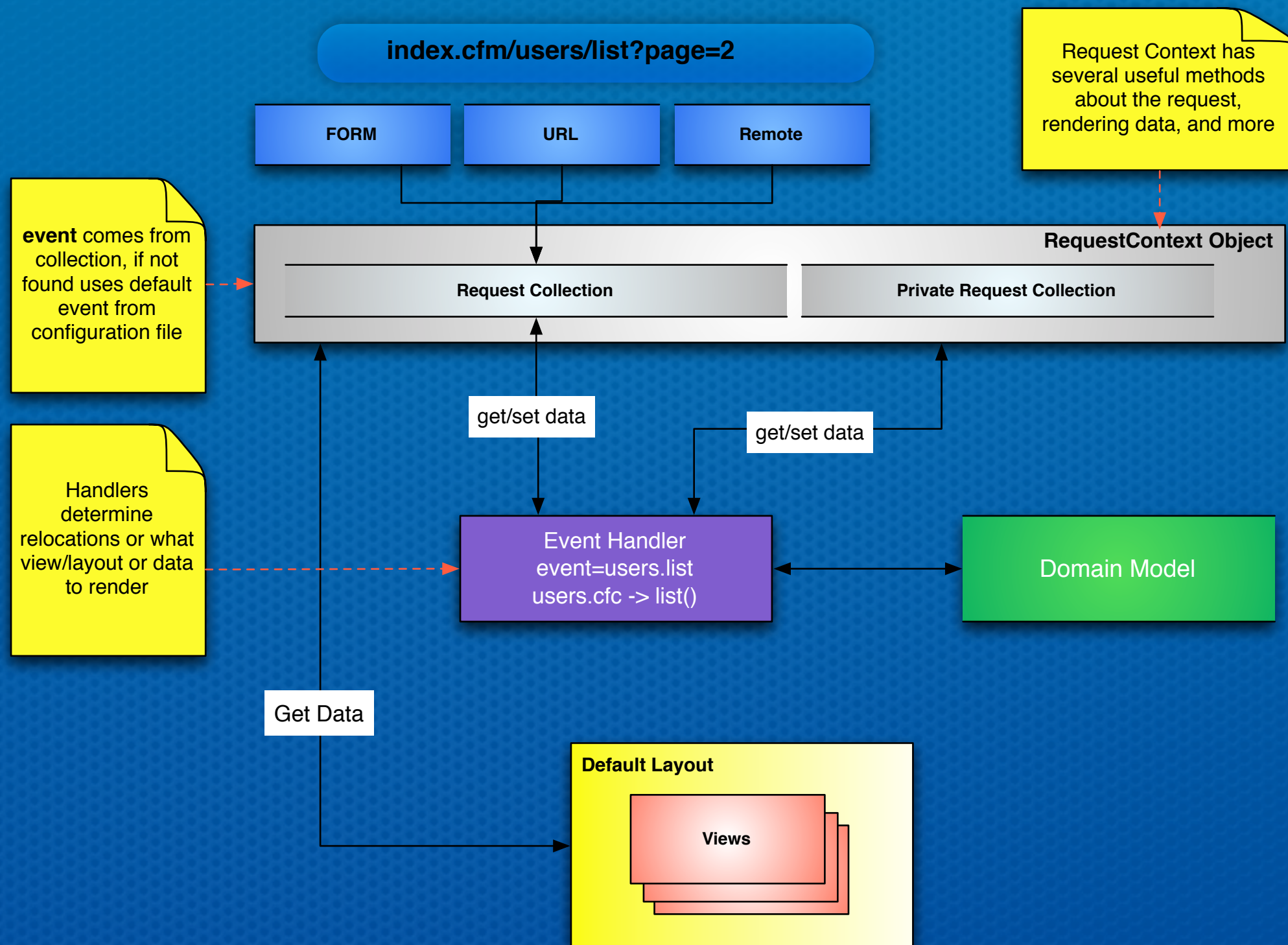
- ✦ Start with simple MVC
- ✦ Add more parts as your app evolves
- ✦ Pieces are brought on demand
- ✦ ColdBox is modular
- ✦ Use what you need
- ✦ Remember that software requirements ALWAYS change
- ✦ Plan ahead



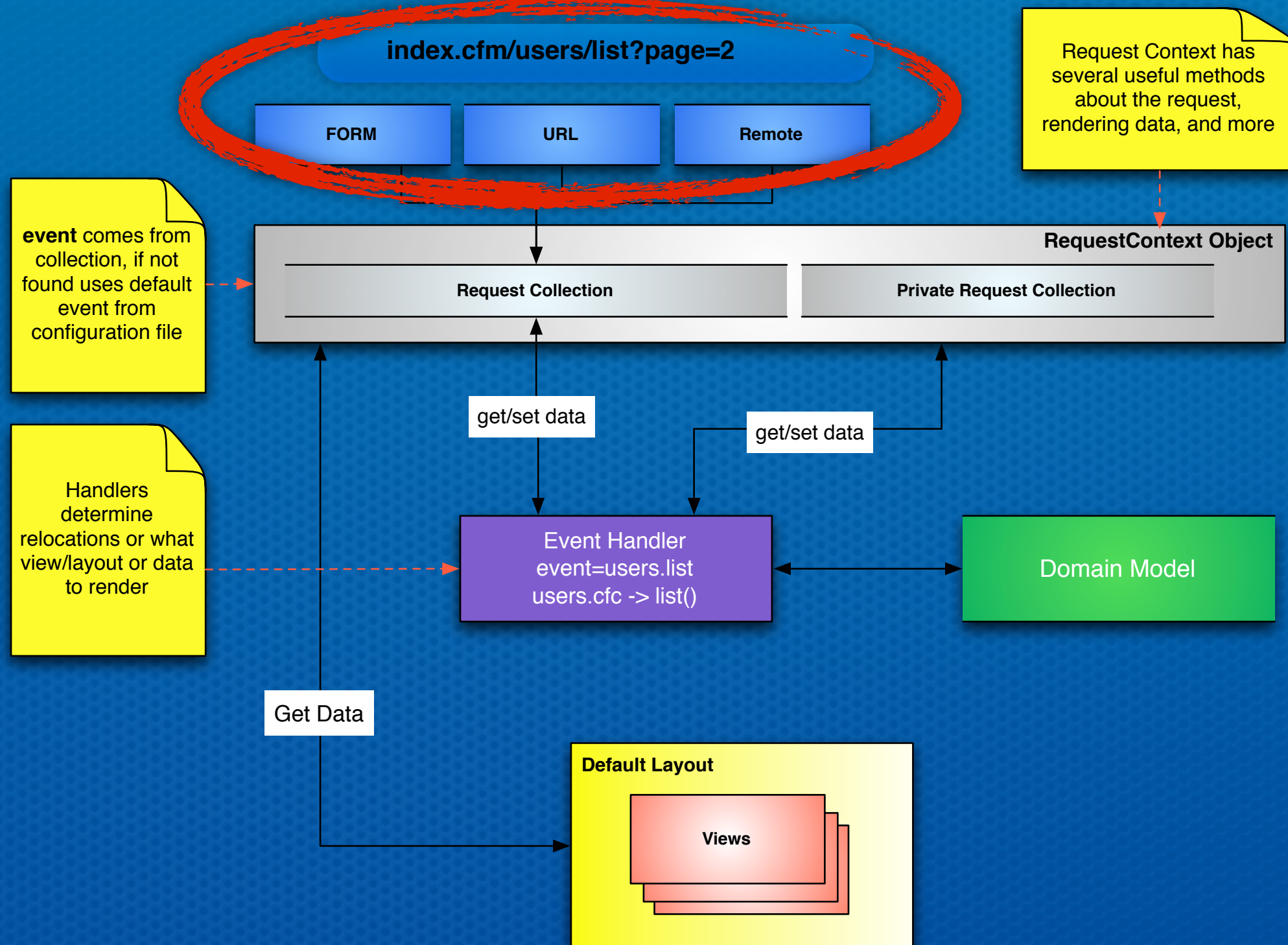
ColdBox Simple Request



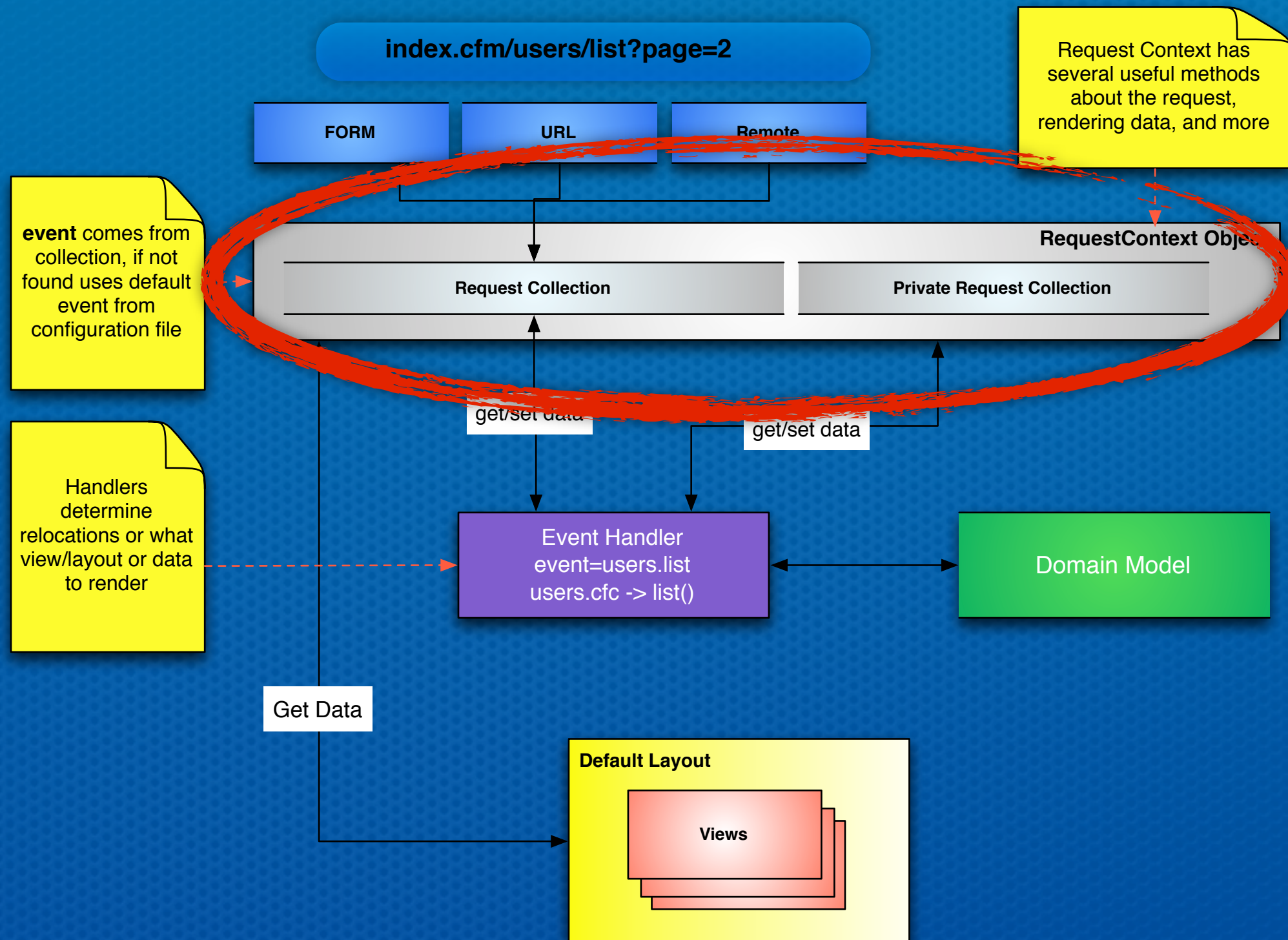
ColdBox Simple Request



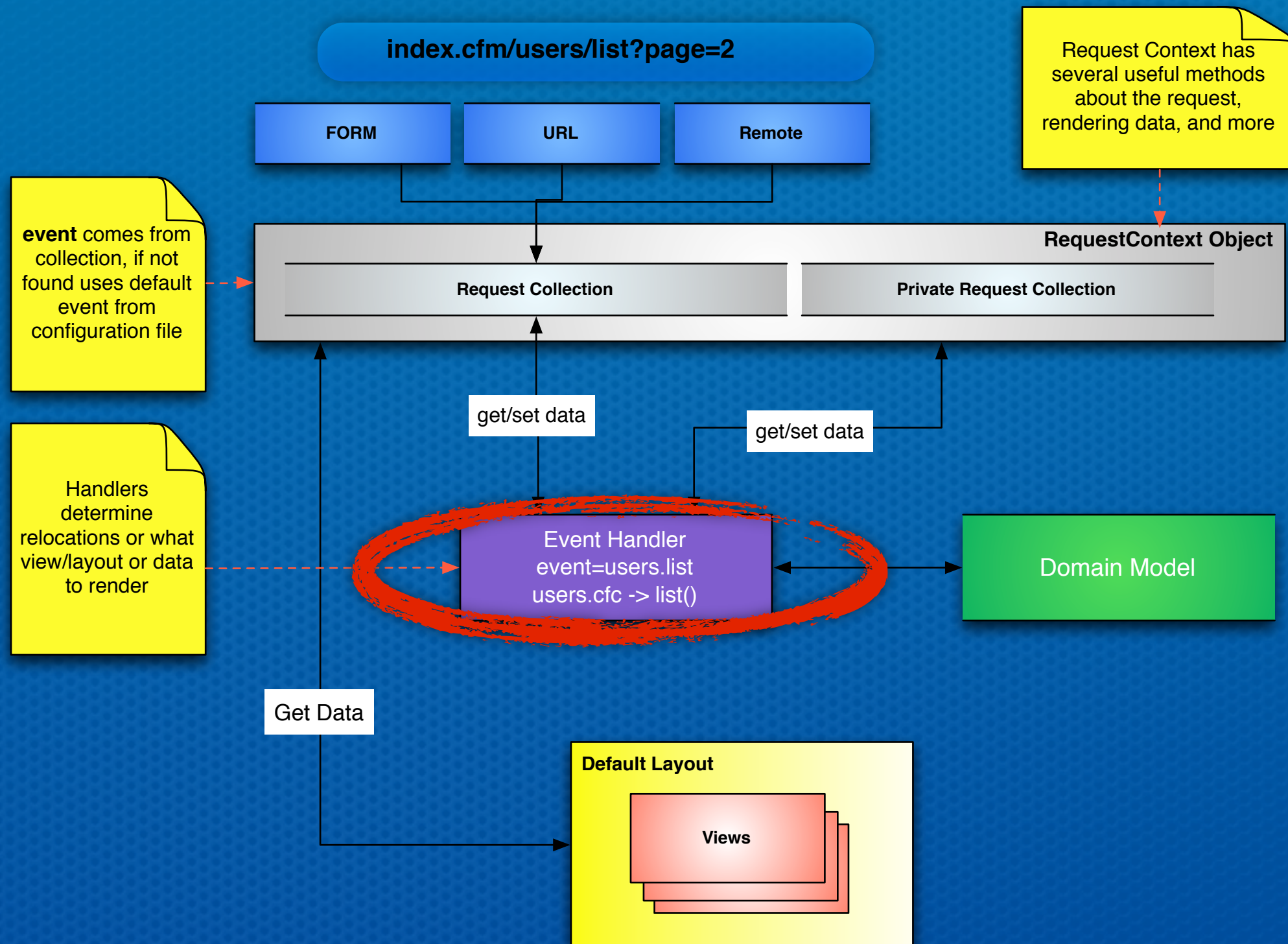
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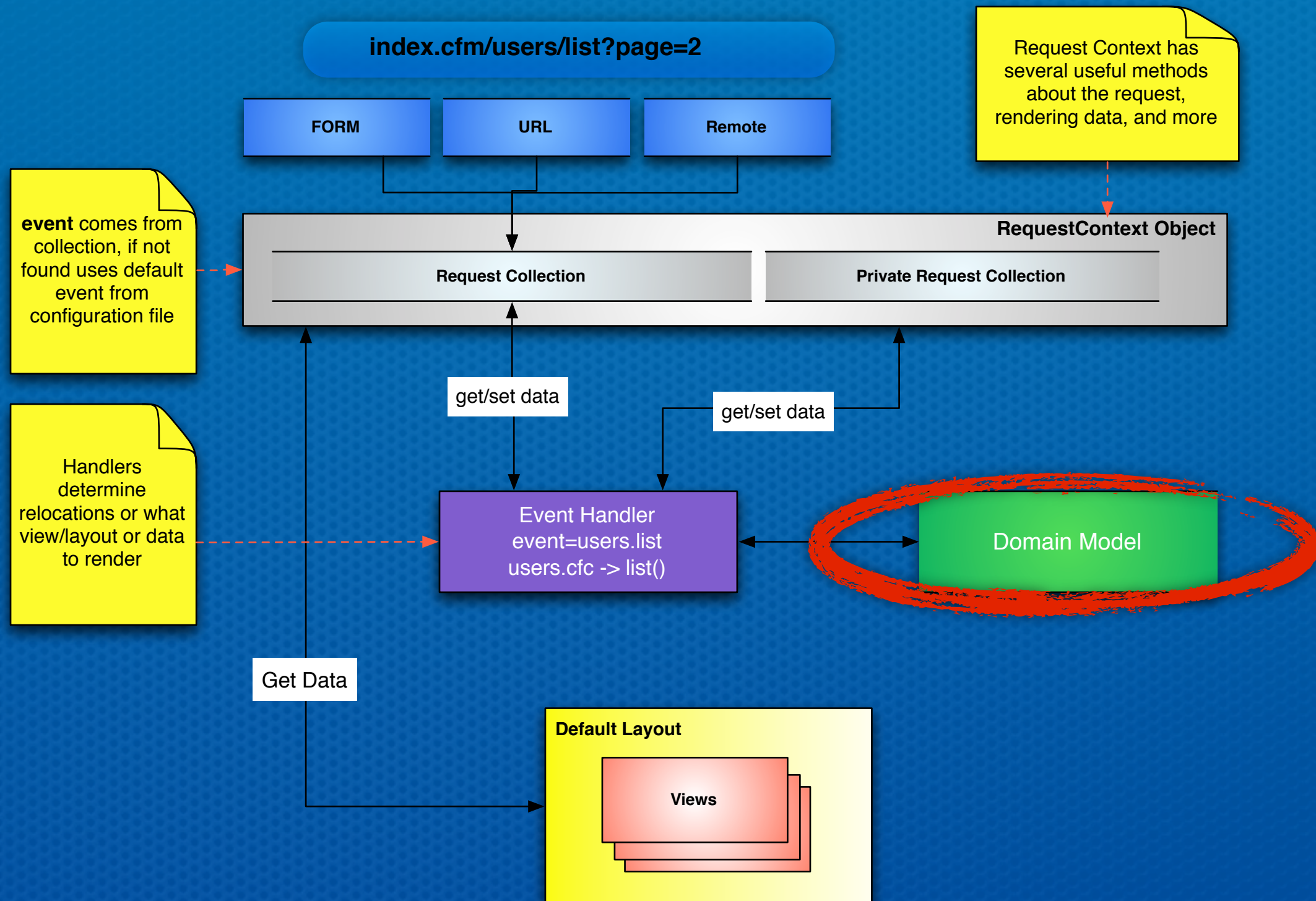
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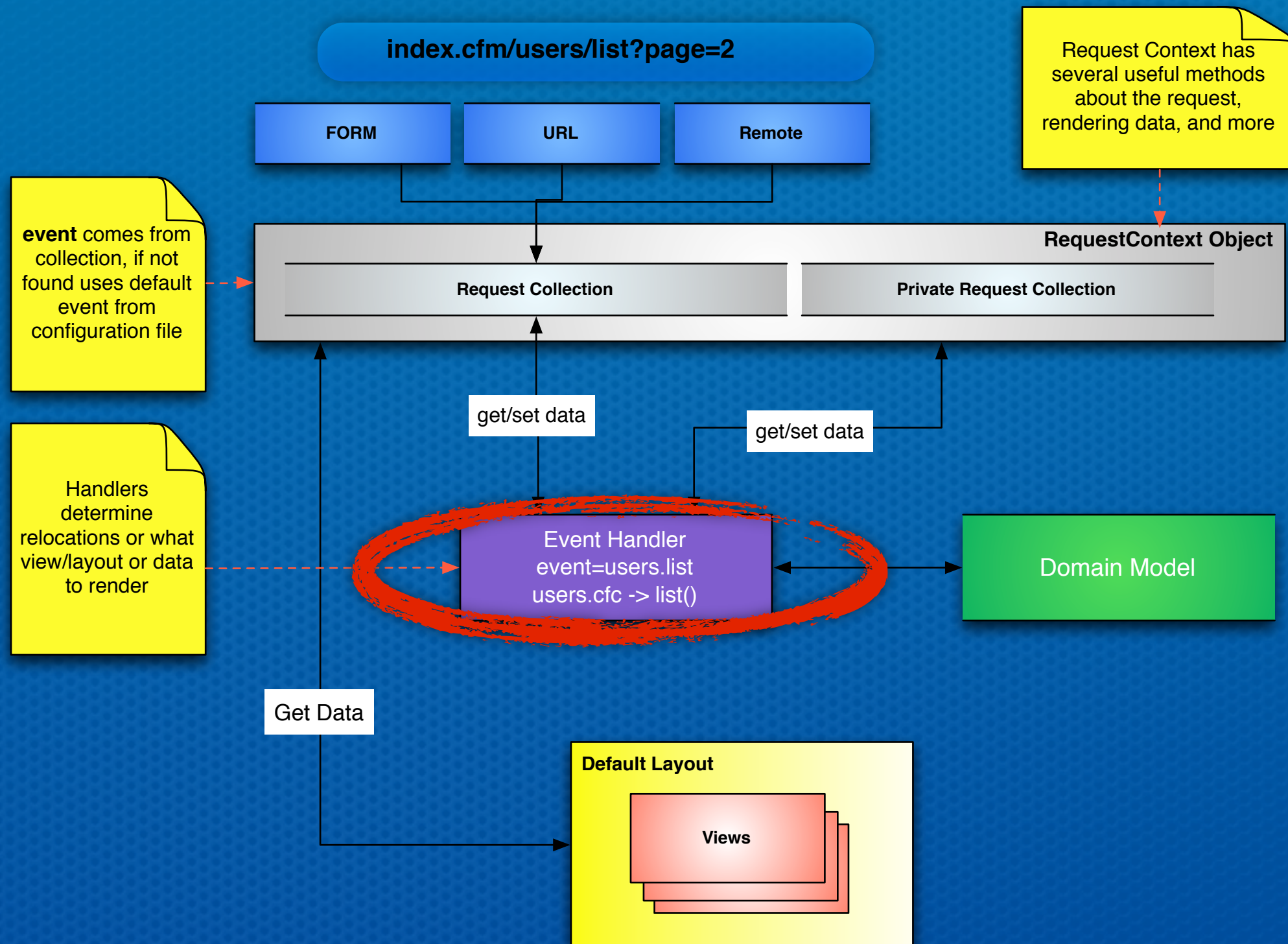
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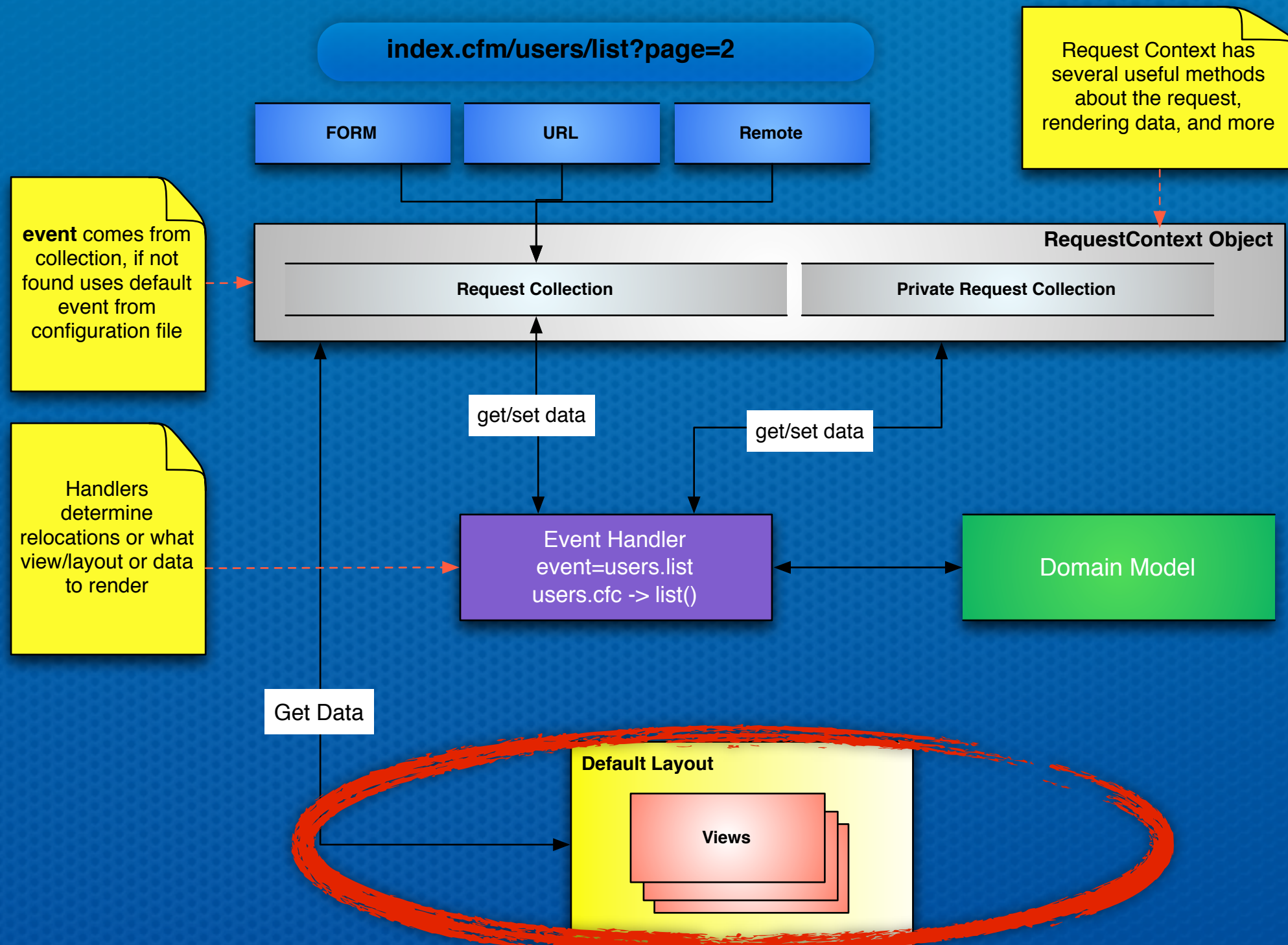
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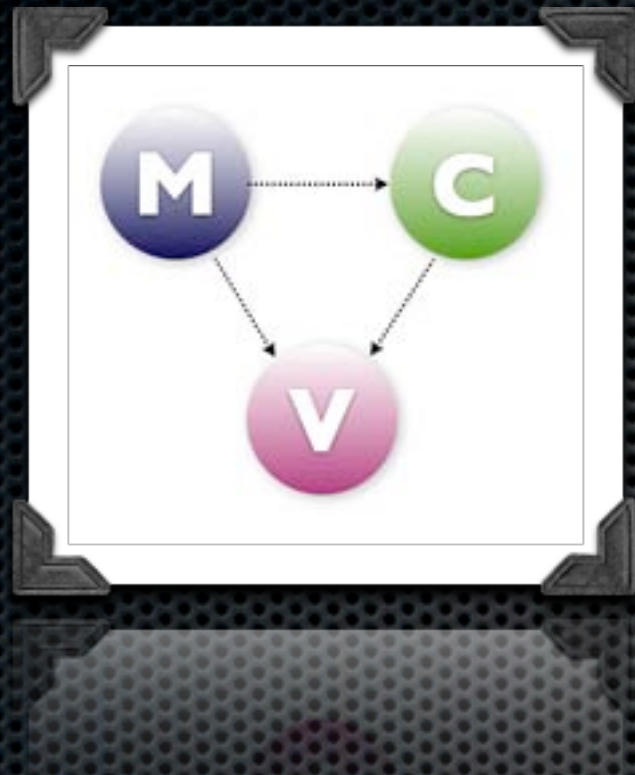
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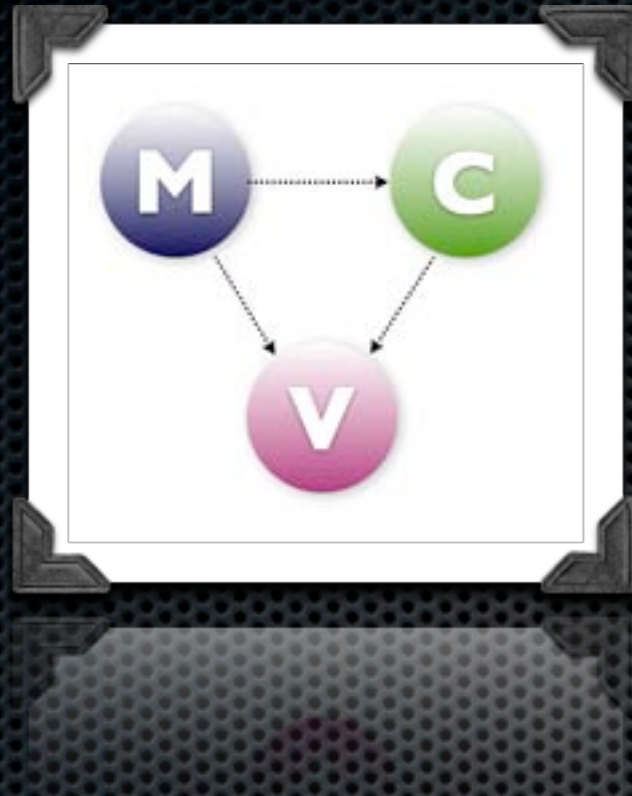
ColdBox Simple Request



Core MVC



Core MVC



- Conventions over Configuration
- RESTful services ready
- Plugin system architecture
- Layout & templating engine built in
- HTML helpers
- Modular architecture extensions
- Simplest app 2 folders and 3 files

Code in CFML



Code in CFML

```
3 <cffunction name="dspAddFeed" access="public" return
4     <cfargument name="Event" type="coldbox.system.be
5     <cfset var csPlugin = getPlugin("clientstorage")
6     <cfset var obj = "">
7     <cfset var rc = Event.getCollection()>
8     <!--- EXIT HANDLERS: --->
9     <cfset rc.xehAddFeed = "ehFeed.doAddFeed">
10    <cfset rc.xehNewFeed = "ehFeed.dspAddFeed">
11
12    <!--- Feed Validated? --->
13    <cfset rc.feedValidated = false>
14
15    <!--- Try to parse feed --->
16    <cfif Event.getValue("continue_button","") neq ""
17        <!--- Validate Feed --->
18        <cfif trim(len(rc.FeedURL)) eq 0 or not getP
19            <cfset getPlugin("messagebox").setMessage
20        <cfelse>
21            <cftry>
22                <cfset obj = getPlugin("ioc").getBea
23                <!--- Verify Feed in google feeds -->
```

- ✦ Simple CFCs
- ✦ Non-Intrusive, ColdBox is just an API
- ✦ New Event, New Function (Easy!)
- ✦ Drop And Play
- ✦ Flexible, Extensible and Reusable
- ✦ <http://apidocs.coldbox.org>

RESTful Web Services



RESTful Web Services

- ✦ Easy creation of RESTful services



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- ✦ Easy creation of RESTful services
- ✦ Advanced URL Routing and Mappings



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- ✦ HTTP Method Security & HTTP Basic Authentication



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- ✦ **ColdBox Relax: Restful Tools for Lazy Experts**



Event Handler



Event Handler

```
component{

  // Dependencies
  property name="myService" inject;
  // HTTP Security
  this.allowedMethods = { list = "GET" }

  function index(event,rc){
    rc.welcome = "Welcome to my awesome site";
    event.setView("main/index");
  }

  function sayHello(event,rc){
    return "<h1>Hello Buddy!</h1>";
  }

  function list(event,rc){
    event.paramValue("format","html");
    rc.data = myService.getData();

    switch(rc.format){
      case "json" : case "xml" : {
        event.renderData(data=rc.data,type=rc.format); break;
      }
      default : { event.setView("main/list"); }
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}
```

<http://localhost/users/list.json>

<http://localhost/users/list.xml>

<http://localhost/users/list>

RESTful Routing



RESTful Routing

```
addRoute(pattern="/API/settings",handler="General",action="settings");  
  
addRoute(pattern="/API/echo/:name?",handler="General",action="{ 'POST': 'echo' }");  
  
addRoute(pattern="/API/user/:username?",  
          handler="admin:rest.user",  
          action="{ 'GET': 'index', 'PUT': 'update', 'POST': 'add', 'DELETE': 'remove' }",  
          ssl="true");
```

- ✦ Pattern = The URI of the resource (Dynamic)
- ✦ Handler = The controller to handle the event
- ✦ Action = Implicit Structure or simple
 - ✦ Maps HTTP verbs to handler methods

IDE-Debugging Tools



IDE-Debugging Tools



- ✦ ColdFusion Builder Extension
 - ✦ Code & Tests generation
 - ✦ Docs/API Search
 - ✦ Auto-Update
- ✦ Over 100 code snippets
- ✦ Code Insight
- ✦ Execution Monitors
- ✦ ForgeBox connectivity
- ✦ Intercept Flex/Air/Ajax

Framework Info: ColdBox 2.0.2 Philipians 3:7-11
Application Name: coldbox (production)
Memory: 24,834 KB / 47,948 KB (Free/Total)
Timestamp: Jul-11-2007 12:01:45 AM
Query String: fwreinit=1
Server Instance: jfetmac
Current Event: ehGeneral.dspHello
Current Layout: Layout.Main.cfm
Current View: vwHello

Framework Method execution times in execution order.

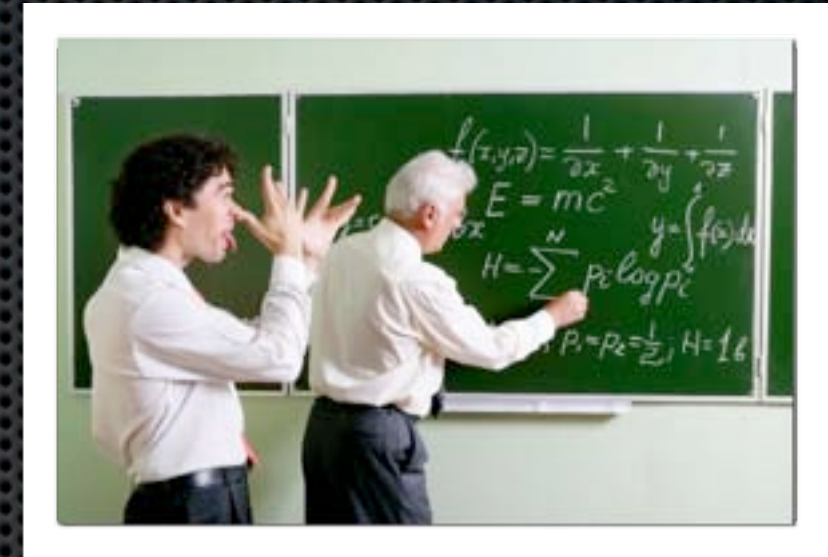
Timestamp	Execution Time	Framework Method	RC Snapshot
12:01:43.743 AM	19 ms	invoking runEvent [ehGeneral.onApplicationStart]	View
12:01:43.757 AM	10 ms	invoking runEvent [preHandler] for ehGeneral.dspHello	View
12:01:44.161 AM	5 ms	New Instance Creation	...
12:01:44.543 AM	56 ms	Rendering View [vwQuote.cfm]	...
12:01:44.544 AM	786 ms	invoking runEvent [ehGeneral.dspHello]	View
12:01:44.551 AM	7 ms	invoking runEvent [postHandler] for ehGeneral.dspHello	View
12:01:45.66 AM	199 ms	Rendering View [navigation.cfm]	...
12:01:45.330 AM	38 ms	Rendering View [datasourcedump.cfm]	...
12:01:45.331 AM	265 ms	Rendering View [vwHello.cfm]	...
12:01:45.345 AM	792 ms	Rendering Layout [Layout.Main.cfm]	...



Testing-Mocking Facilities

Testing-Mocking Facilities

- ✦ Unit Testing via **MXUnit**
 - ✦ Plugins
 - ✦ Interceptors
 - ✦ Handlers
 - ✦ Model Objects
- ✦ Integration Testing & Automation
- ✦ Ability to simulate queries
- ✦ Mocking via MockBox
- ✦ Create stubs



COLDBOX

Integration Testing



Integration Testing



```
component extends="coldbox.system.testing.BaseTestCase" {  
  
    function testIndex() {  
        event = execute("general.index");  
        assertEquals( "Welcome to my awesome site", event.getValue("welcome") );  
    }  
  
}
```


Integration Testing



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Model Testing

```
/**
 * @model myapp.model.MyService
 */
component extends="coldbox.system.testing.BaseModelTest" {

    function testGetData() {
        data = model.getData();
        assertTrue( data.recordcount );
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Beyond the basics!



There's more?

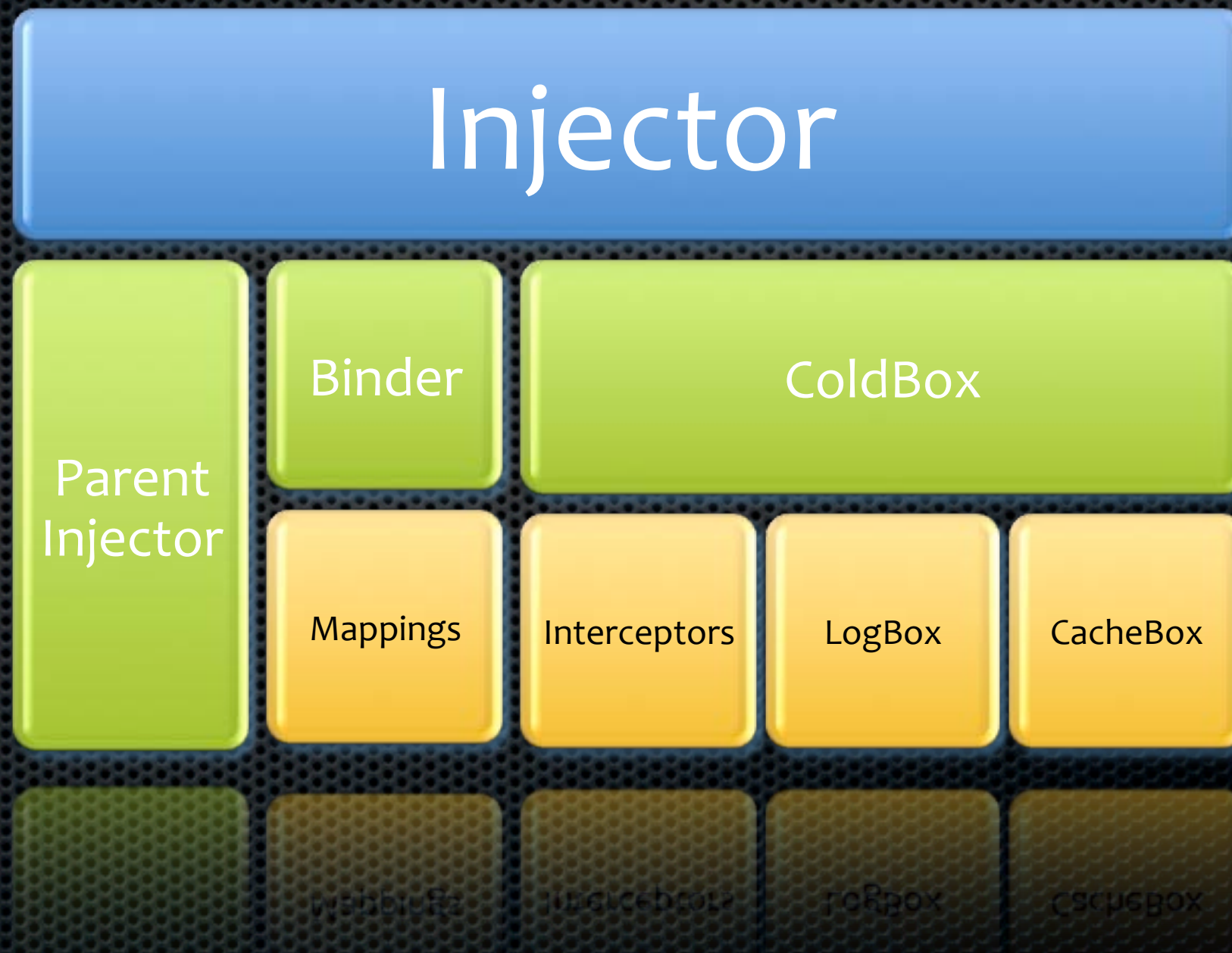
WireBox DI/AOP



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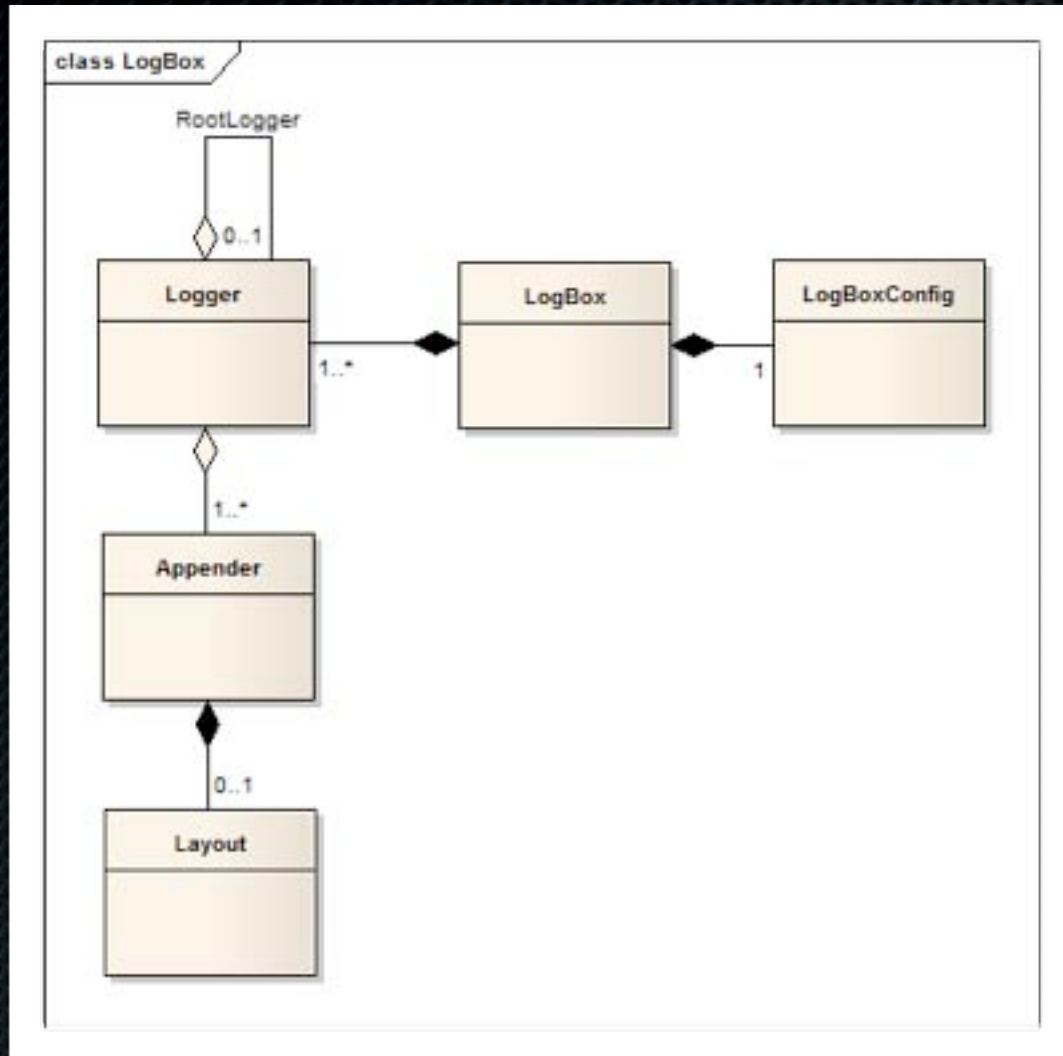
Need dependency injection or Aspect Oriented Programming?



LogBox = Fun!



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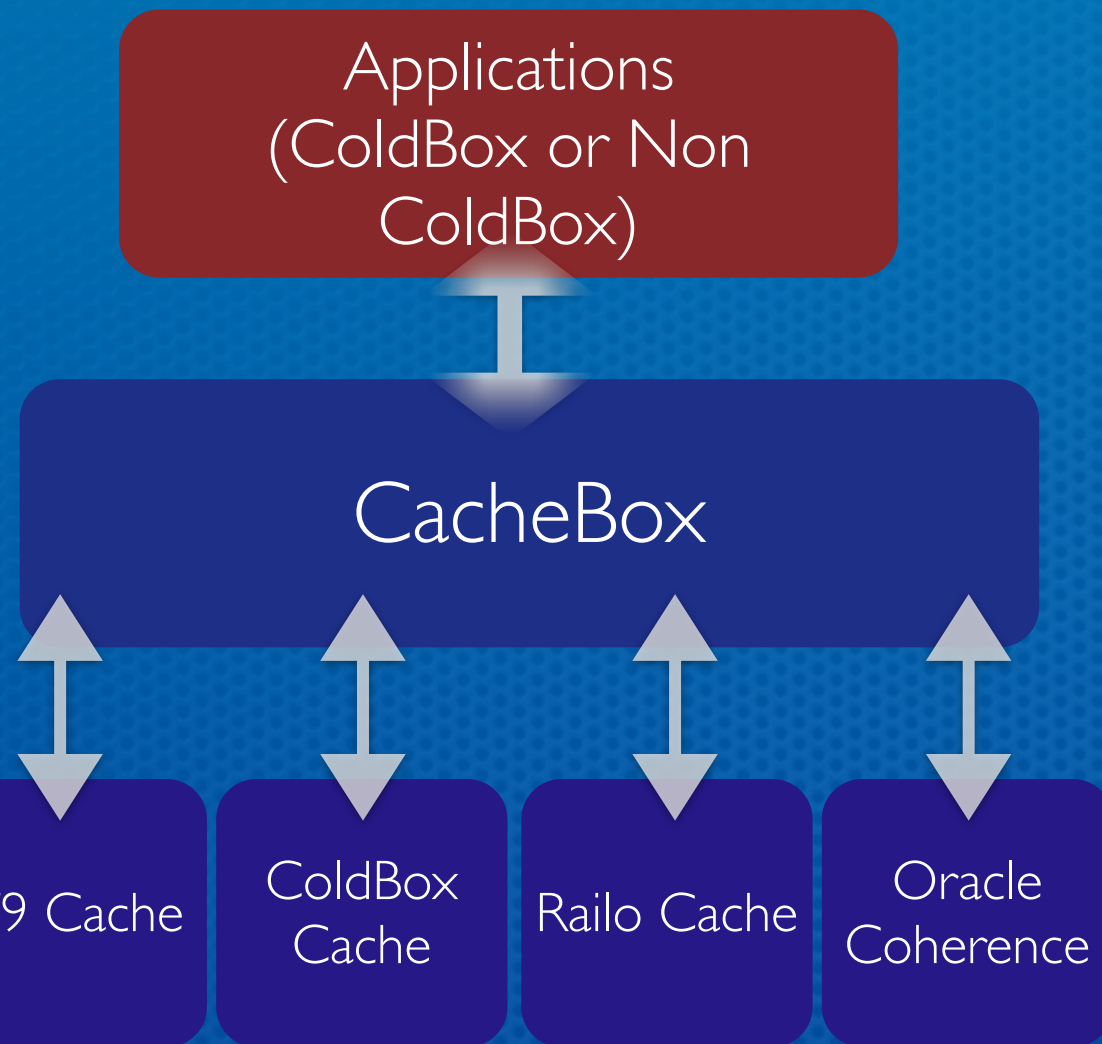


- ✦ Ready for the next step in logging?
- ✦ Enterprise Logging Library
- ✦ Inspired by Log4J
- ✦ 12 Appenders Included
- ✦ Extensible Appenders & Layouts
- ✦ Programmatic Configurations
- ✦ Category Inheritance

CacheBox



CacheBox

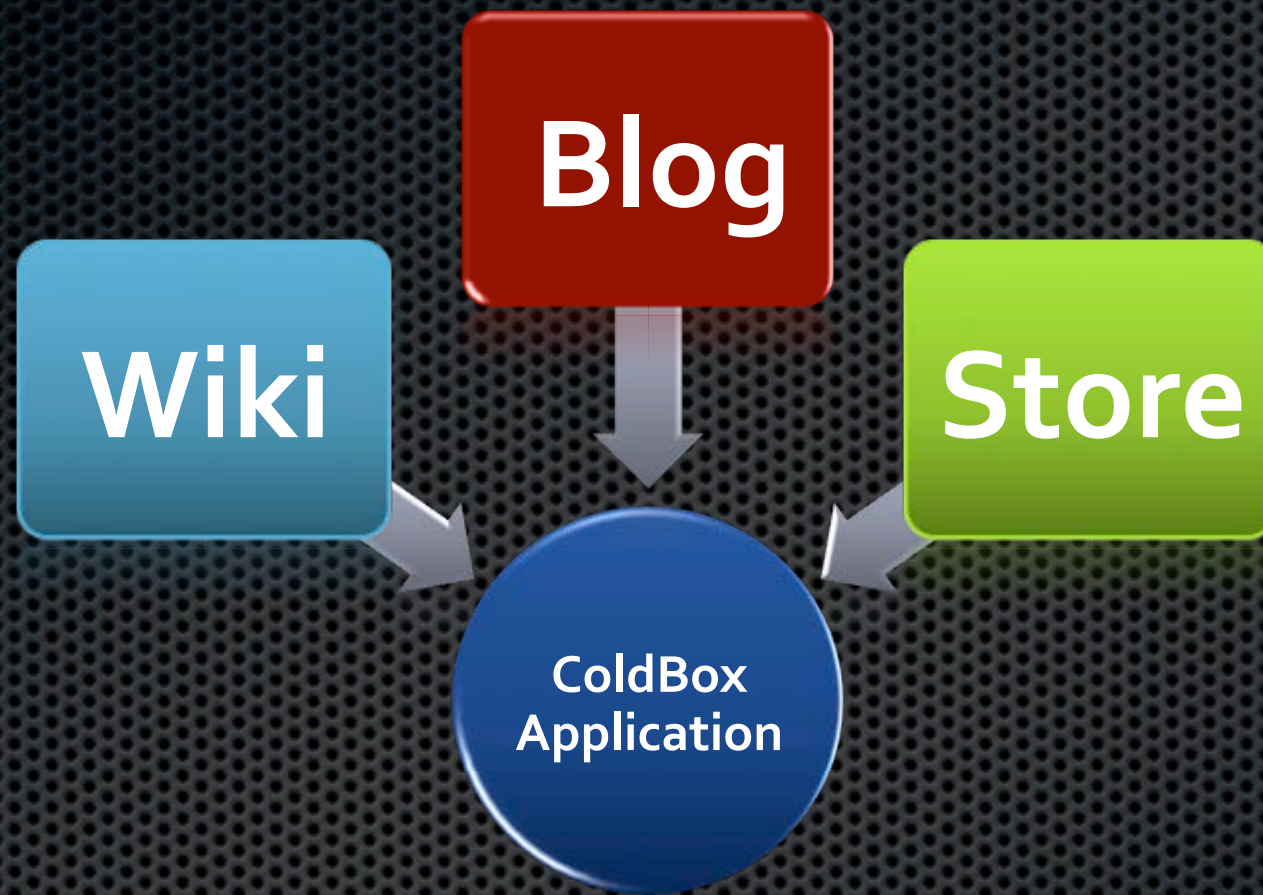


- ✦ Need enterprise caching?
- ✦ Cache Aggregator
- ✦ Cache Agnostic API
- ✦ Event Model
- ✦ Stats, Reports
- ✦ Interactive Console
- ✦ Memory aware
- ✦ Event-View Caching
- ✦ Use if needed

ColdBox Modules



ColdBox Modules



- ✦ Modular Architecture instead of monolithic applications
- ✦ Drop and play: Conventions Baby!
- ✦ Module API for dynamic modules
- ✦ Standalone or module applications

Module Service API



Module Service API



ColdBox Modules

[Reload All](#)[Unload All](#)

Below you can see the loaded application modules.

Module	Author	Version	V.P.L	L.P.L	Load Time	CMDS
My Test Module A funky test module <i>No Entry Point Defined</i>	Luis Majano	1.0	Yes	Yes	May-24 01:30:07 PM	Unload Reload
ForgeBox A module that interacts with forgebox Open Module Entry Point	Luis Majano	1.0	Yes	Yes	May-24 01:30:07 PM	Unload Reload

* V.P.L = View Parent Lookup Order

* L.P.L = Layout Parent Lookup Order

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Module Service API



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ORM



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 - ✦ GORM inspired



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- ✦ Hibernate interceptors to ColdBox interceptors bridge

Beyond The Basics

- Several useful tools and plugins (Load when needed)
 - XSS Cleanup Tools
 - JavaLoader integration
 - ColdBox Security
 - ColdBox Tier Deployment Tools
 - JVM,File,Date Utilities
 - Storage Facades
 - Feed Helpers
 - HTML Helpers
 - i18n & Localization
 - Flex/Air Integration

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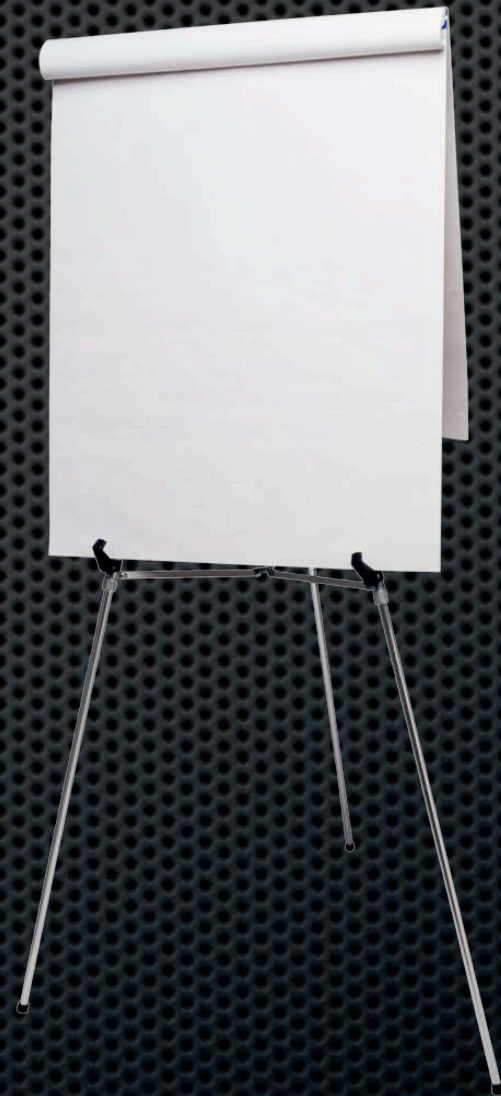


COLDBOX





Demo





Introducing



Modular Blogging Platform



- ✦ Modular Architecture: 3 ColdBox Modules
- ✦ No longer restricted by an application
- ✦ Extend via ColdBox: interceptions, modules, ses, custom DI, security, etc
- ✦ Extend via event driven programming: > 30 different event interception points
- ✦ Extend via ColdBox Modules
- ✦ Full skinning support
- ✦ Commenting engine
- ✦ Widgets, Content Partial, CMS, etc.
- ✦ Private beta now -> Contact us at **blogbox@ortussolutions.com**



Features

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ColdBox Resources

- Official Site
 - www.coldbox.org
- Documentation
 - wiki.coldbox.org
- Google Group
 - groups.google.com/group/coldbox
- Training
 - www.coldbox.org/training
- Professional Support
 - www.ortussolutions.com

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Q & A



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coldbox