Pivotal

Welcome!

Core Spring

Logistics

- Instructor introduction
- Students introductions
- Course registration
  - If needed
- Courseware
- Internet access
- Phones on silent

- Working hours
- Lunch and breaks
- Toilets/Restrooms
- Fire alarms
- Emergency exits
- Any other questions?

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How You Will Benefit

- Learn to use Spring and Spring Boot for web and other applications
- Gain hands-on experience
  - Generous mixture of presentation and labs
- Access to experienced, certified instructors

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Agenda

- **Course Contents**

- Spring and Pivotal

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Course Agenda: Day 1

- Introduction to Spring
- Using Spring to configure an application
- Java-based dependency injection
- Annotation-based dependency injection and component-scanning
- Spring FactoryBeans

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Course Agenda: Day 2

- Inside the Spring Container
  - Bean Lifecycle and its related Post Processors
- Adding behavior to an application using aspects
- Testing a Spring-based application using multiple profiles
- Simplifying JDBC-based data access
- Driving database transactions in a Spring environment

Course Agenda: Day 3

- Getting Started with Spring Boot

- Spring Boot Auto-Configuration

- Using JPA and Spring Data Repositories

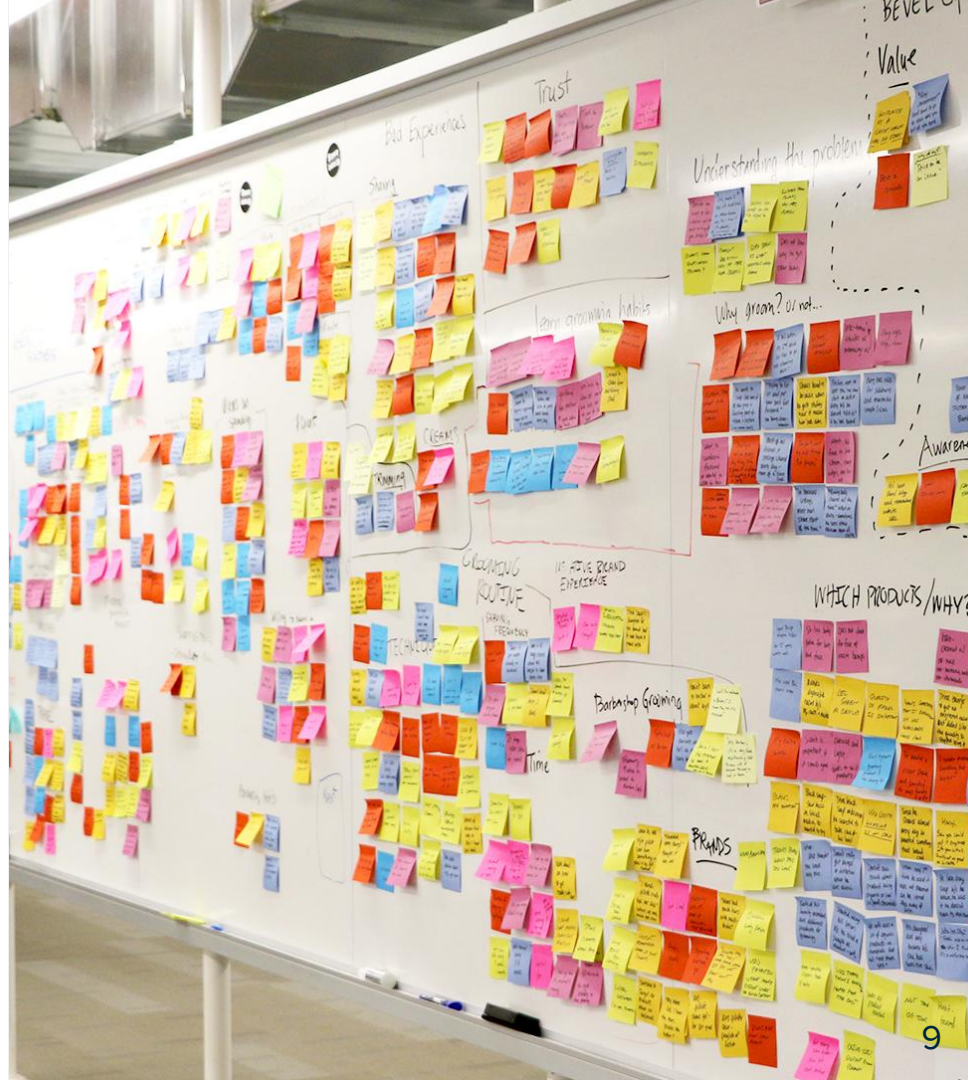- Building a Spring MVC Application

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Course Agenda: Day 4

- Implementing a Complete REST Server
- Securing web applications with Spring Security
- Implementing OAuth2-based Security with Spring
- Spring Boot Actuators
- Spring Boot's Testing Support

Agenda

- Course Contents

- **Spring and Pivotal**

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Transforming how the world builds software

Spring @Pivotal

- SpringSource, the company behind Spring
  - acquired by VMware in 2009
  - transferred to Pivotal joint venture 2013
- Spring projects key to Pivotal's business strategy
  - Cloud Foundry PaaS
    - Deploy to private, public, hybrid clouds
    - Microservices, Spring Cloud
  - Real-time analytics, IoT
    - Spot trends as they happen
    - Spring Data, Spring Hadoop, Spring Cloud Data Flow

Pivotal Platform

Cloud Foundry

Cloud Independence
Microservices
Continuous Delivery
Dev Ops

CLOUD**FOUNDRY**

Development

Frameworks
Services
Analytics

spring

RabbitMQ™

Pivotal Tracker

Big Data

High Capacity
Real-time Ingest
SQL Query
Scale-out Storage

HAWQ

GREENPLUM

GEMFIRE®

hadoop

Pivotal **Labs**   *Working with clients to build better apps more quickly*

Spring Projects

Project Reactor

Spring Data

Spring Security

Spring Batch

Spring Integration

Spring (SOAP) Web Services

Spring Cloud

Spring AMQP

Spring Framework

http://spring.io

Spring Session

Spring Hateoas

Spring Android

Spring Kafka

Spring Cloud Data Flow

Spring Boot

Spring Mobile

Spring Web Flow
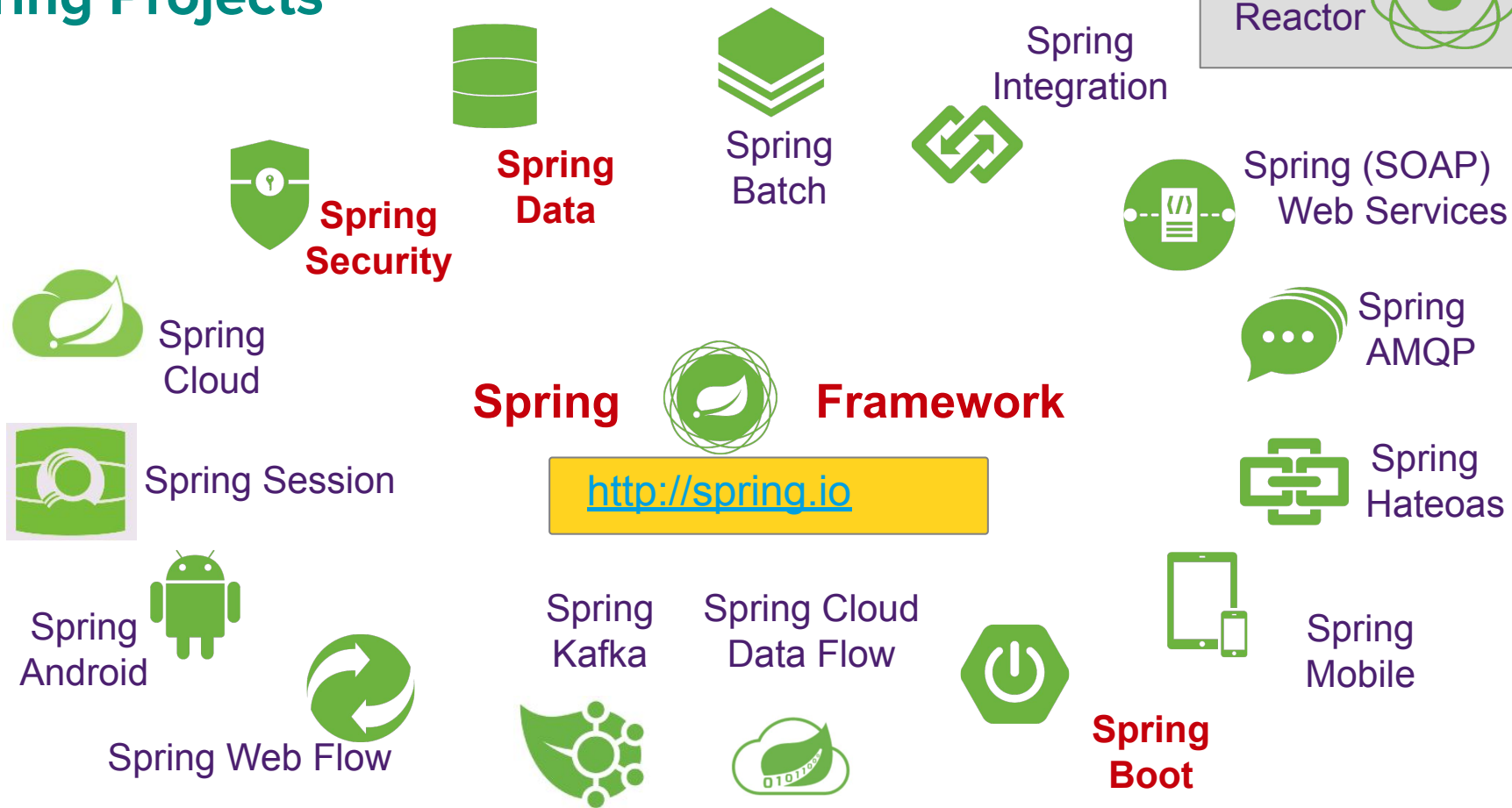
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Covered in this section

- Agenda
- Spring and Pivotal

Let's get on with the course..!

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