Spring lesson 4

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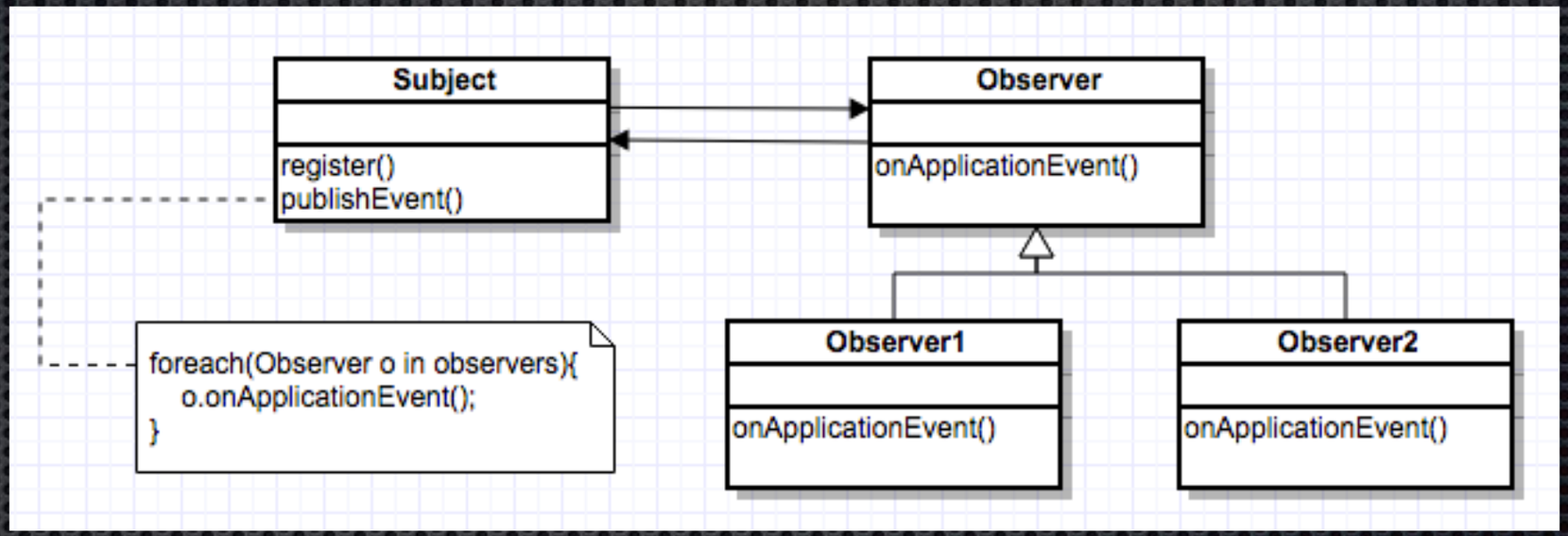
Event

Event是框架里面组件之间进行消息通讯的重要功能，通常使用观察者模式实现，剥离发送者和接受者



如何使用Spring的Event?

- Event对象继承自ApplicationEvent
- 发送者须注入ApplicationEventPublisher对象
- 接收者继承ApplicationListener

Spring的Event

```
public static void main(String[] args) {
    ApplicationContext ctx = new ClassPathXmlApplicationContext(
    LdOrderService sender=ctx.getBean(LdOrderService.class);
    sender.createOrder();
```

ctx注入一个实现了
ApplicationEventPublisher接口的bean

```
@Component
public class LdOrderService {
    @Autowired
    private ApplicationEventPublisher publisher;
```

调用publishEvent，执行multicastEvent方法

```
public void multicastEvent(final ApplicationEvent event, ResolvableType eventType) {
    ResolvableType type = (eventType != null ? eventType : resolveDefaultEventType(event));
    for (final ApplicationListener<?> listener : getApplicationListeners(event, type)) {
        Executor executor = getTaskExecutor();
        if (executor != null) {
            executor.execute(() -> { invokeListener(listener, event); });
        }
        else {
            invokeListener(listener, event);
        }
    }
    protected void invokeListener(ApplicationListener listener, ApplicationEvent event) {
        ErrorHandler errorHandler = getErrorHandler();
        if (errorHandler != null) {
            try {
                listener.onApplicationEvent(event);
            }
            catch (Throwable err) {
                errorHandler.handleError(err);
            }
        }
        else {
            try {
                listener.onApplicationEvent(event);
```

Spring的Event

```java
@Override
public void onApplicationEvent(ApplicationEvent event) {
    processEvent(event);
}
```

容器根据@EventListener注册的Observer

```java
public void processEvent(ApplicationEvent event) {
    Object[] args = resolveArguments(event);
    if (shouldHandle(event, args)) {
        Object result = doInvoke(args);
        if (result != null) {
            handleResult(result);
        }
        else {
            logger.trace("No result object given - no result to handle");
        }
    }
}
```

```
send order1: LDOrder{userId=1,price=200,createDate=Mon Sep 04 16:14:12 CST 2017}
send order2: LDOrder{userId=2,price=600,createDate=Mon Sep 04 16:14:12 CST 2017}
VIPUserService receive order: LDOrder{userId=2,price=600,createDate=Mon Sep 04 16:14:12 CST 2017}
create vip user:VIPUser{userId=2,userName=VIP2,regDate=Mon Sep 04 16:14:12 CST 2017}
you have upgraded to VIP user.
send mail to: VIPUser{userId=2,userName=VIP2,regDate=Mon Sep 04 16:14:12 CST 2017}

Process finished with exit code 0
```

https://github.com/peanuts6/homework/tree/master/java/season03/hw04

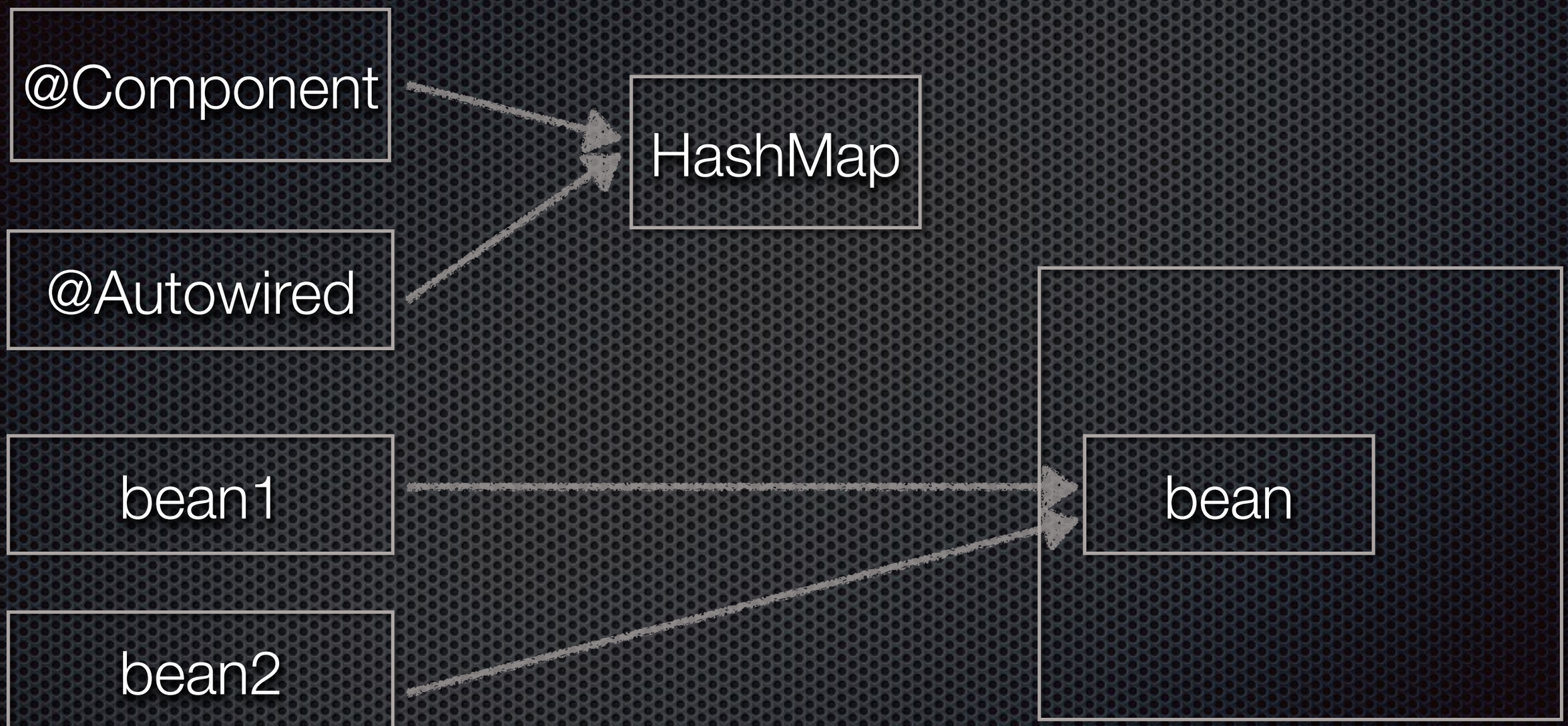
Java注解&范型注入DIY IOC

我需要解决以下问题

- 如何扫描class
- 如何管理对象
- 如何解释annotation

https://github.com/peanuts6/homework/tree/master/java/season03/hw04

Java注解&范型注入DIY IOC



https://github.com/peanuts6/homework/tree/master/java/season03/hw04

Thank You

– 上次课周末写了，对模块类型的项目不会管理，还有点小尾巴需要处理