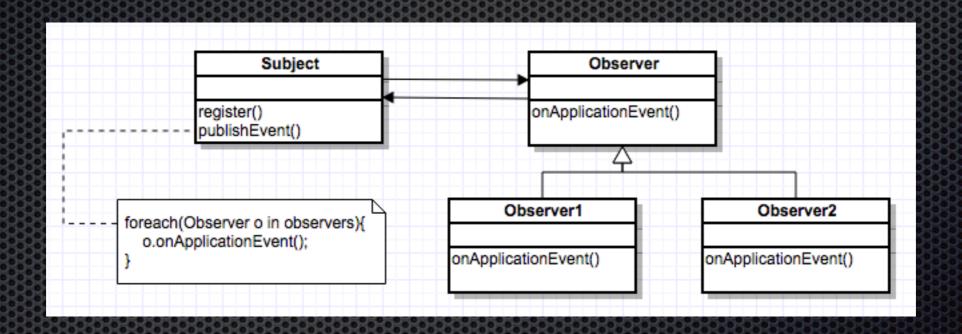
Spring lesson 4 (Event) xieqiaoyun

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(<u>listener</u>, <u>event</u>); });
       else {
           invokeListener(listener, event);
    protected void invokelistener(ApplicationListener listener, ApplicationEvent event) {
       ErrorHandler errorHandler = getErrorHandler();
        if (errorHandler != nyll) {
            try {
                listener.onApplicationEvent(event);
            catch (Throwable err) {
               errorHandler.handleError(err);
        else {
            try -
                listener.onApplicationEvent(event);
```

Spring的Event

```
@Override
         public void onApplicationEvent(ApplicationEvent event) {
             processEvent(event);
                                             容器根据@EventListener注册的Observer
   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
```

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

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