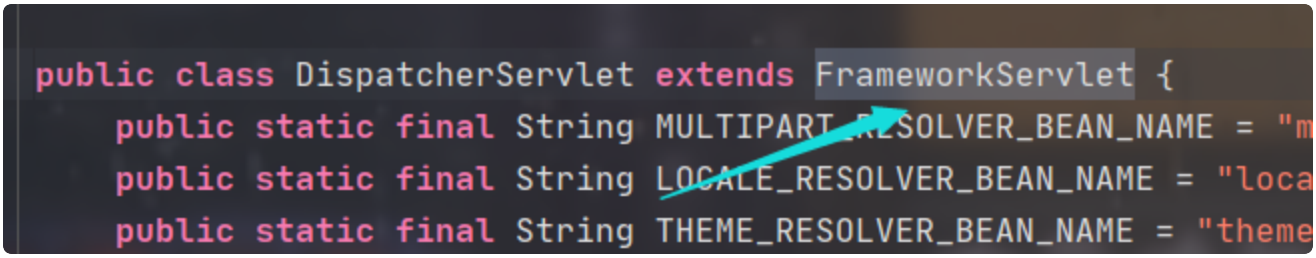
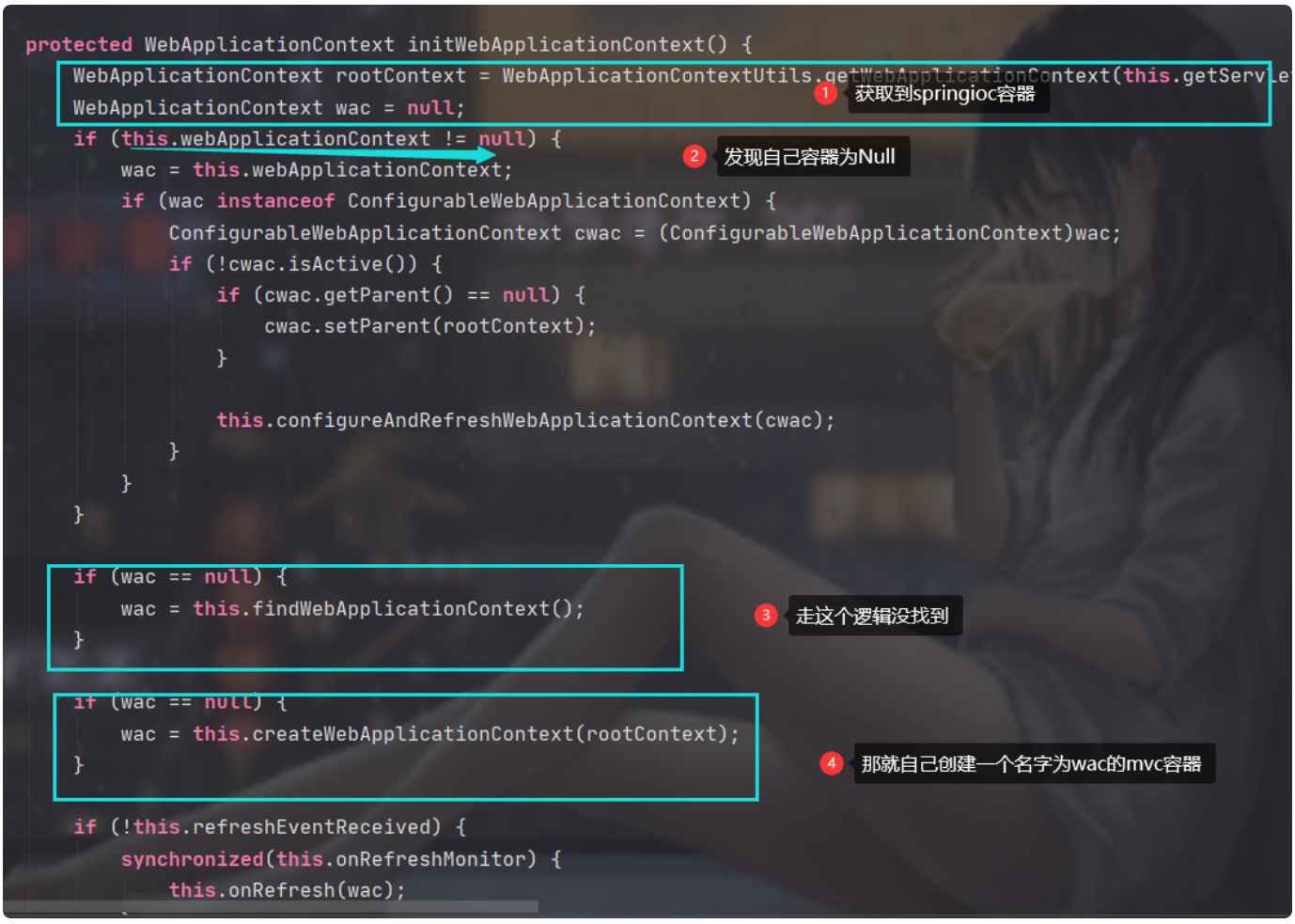
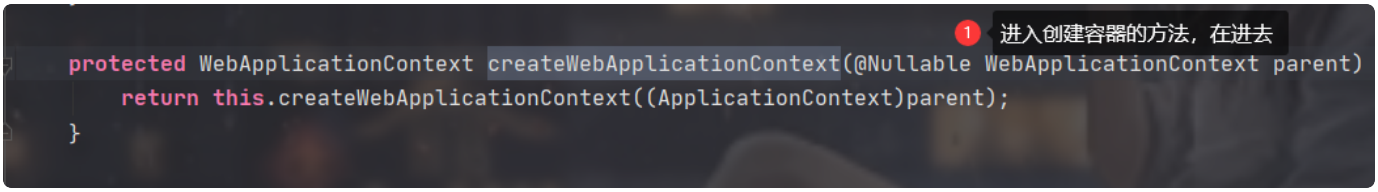
spring --- analyse

1.为什么说web.xml是父子容器的关系







```java
protected WebApplicationContext createWebApplicationContext(@Nullable ApplicationContext parent) {
    Class<?> contextClass = this.getContextClass();
    if (!ConfigurableWebApplicationContext.class.isAssignableFrom(contextClass)) {
        throw new ApplicationContextException("Fatal initialization error in servlet with name '" + this.getServletName() +
    } else {
        ConfigurableWebApplicationContext wac = (ConfigurableWebApplicationContext)BeanUtils.instantiateClass(contextClass)
        wac.setEnvironment(this.getEnvironment());
        wac.setParent(parent);
        String configLocation = this.getContextConfigLocation();
        if (configLocation != null) {
            wac.setConfigLocation(configLocation);
        }

        this.configureAndRefreshWebApplicationContext(wac);
        return wac;
    }
}
```

1 用工具类搞出一个自己的容器来，

2 并设置父容器，这里我的web.xml中没配置ioc容器，所以debug----parent属性为Null

3 具体debug效果看下一张图

```java
protected WebApplicationContext createWebApplicationContext(@Nullable ApplicationContext parent) {  parent: null
    Class<?> contextClass = this.getContextClass();  contextClass: "class org.springframework.web.context.support.XmlWebA
    if (!ConfigurableWebApplicationContext.class.isAssignableFrom(contextClass)) {
        throw new ApplicationContextException("Fatal initialization error in servlet with name '" + this.getServletName()
    } else {
        ConfigurableWebApplicationContext wac = (ConfigurableWebApplicationContext)BeanUtils.instantiateClass(contextClas
        wac.setEnvironment(this.getEnvironment());
        wac.setParent(parent);  parent: null
        String configLocation = this.getContextConfigLocation();  configLocation: "classpath:day04/day04-mvc-config.xml"
        if (configLocation != null) {
            wac.setConfigLocation(configLocation);  configLocation: "classpath:day04/day04-mvc-config.xml"
        }

        this.configureAndRefreshWebApplicationContext(wac);
        return wac;  wac: "WebApplicationContext for namespace 'dispatchServlet-servlet', started on Thu May 12 08:16:48
    }
}
```

- 为什么可以设置parent原因是请看下图

```java
public interface ConfigurableWebApplicationContext extends WebApplicationContext, ConfigurableApplicationContext {
    String APPLICATION_CONTEXT_ID_PREFIX = WebApplicationContext.class.getName() + ":";
    String SERVLET_CONFIG_BEAN_NAME = "servletConfig";

    void setServletContext(@Nullable ServletContext var1);

    void setServletConfig(@Nullable ServletConfig var1);

    @Nullable
    ServletConfig getServletConfig();

    void setNamespace(@Nullable String var1);

    @Nullable
    String getNamespace();
```

1 mvc容器类型，不仅实现了普通版的webApplicationContext
还实现了ConfigurableApplicationContext可以设置更多配置的


public interface ConfigurableApplicationContext extends ApplicationContext, Lifecycle, Closeable {
String CONFIG_LOCATION_DELIMITERS = ",; \t\n";
String CONVERSION_SERVICE_BEAN_NAME = "conversionService";
String LOAD_TIME_WEAVER_BEAN_NAME = "loadTimeWeaver";
String ENVIRONMENT_BEAN_NAME = "environment";
String SYSTEM_PROPERTIES_BEAN_NAME = "systemProperties";
String SYSTEM_ENVIRONMENT_BEAN_NAME = "systemEnvironment";
String SHUTDOWN_HOOK_THREAD_NAME = "SpringContextShutdownHook";
void setId(String var1);
void setParent(@Nullable ApplicationContext var1);
void setEnvironment(ConfigurableEnvironment var1);
ConfigurableEnvironment getEnvironment();
void addBeanFactoryPostProcessor(BeanFactoryPostProcessor var1);
void addApplicationListener(ApplicationListener<?> var1);