AnnotationConfigApplicationContext(Class <?>... annotatedClasses)

this(); this(); 初始化BeanDefinition容器和IOC容器 this(); 注册BeanDefinition容器 public AnnotationConfigApplicationContext() { public AnnotationConfigApplicationContext() this.reader = new public GenericApplicationContext() { this.beanFactory = new public AnnotatedBeanDefinitionReader(BeanDefinitionRegistry DefaultListableBeanFactory();} registry) { public AnnotatedBeanDefinitionReader(BeanDefinitionRegistry public DefaultListableBeanFactory() {super();} registry, Environment environment) { AnnotationConfigUtils.registerAnnotationConfigProcessors(this.reg 先加载父类构造器 AnnotationConfigUtils public AbstractAutowireCapableBeanFactory() public static void registerAnnotationConfigProcessors(BeanDefinitionRegistry registry) { egisterAnnotationConfigProcessors(registry, null);} public AbstractBeanFactory() {} AnnotationConfigUtils#registerAnnotationConfigProcessors(or g. spring framework. be an s. factory. support. Be an Definition Registration of the support oFactoryBeanRegistrySupport y, java.lang.Object) bean Defs. add (register Post Processor (registry, def, CONFIGURATION_ANNOTATION_PROCESSOR_BEAN_NAME)); 初始化IOC容器 DefaultSingletonBeanRegistry private final Map<String, Object> singletonObjects AnnotationConfigUtils#registerPostProcessor registry.registerBeanDefinition(beanName, definition); = new ConcurrentHashMap<String, Object > (256); FactoryBeanRegistrySupport GenericApplicationContext#registerBeanDefinition private final Map<String, Object> factoryBeanObjectCache = new ncurrentHashMap<String, Object>(16); 注册BeanDefinition容 AbstractBeanFactory private final List < BeanPostProcessor > beanPostProcessors = new DefaultListableBeanFactory#registerBeanDefinition ArrayList < BeanPostProcessor > (); this.beanDefinitionMap.put(beanName, beanDefinition); this.beanDefinitionNames.add(beanName); AbstractAutowireCapableBeanFactory private final Map<String, BeanWrapper> factoryBeanInstanceCache = new Concurrent HashMap < String, BeanWrapper > (16); public AbstractAutowireCapableBeanFactory() { 初始化BeanDefinition容 DefaultListableBeanFactory private final Map<String, BeanDefinition> beanDefinitionMap = new Concurrent HashMap < String, Bean Definition > (256);

private volatile List < String> eanDefinitionNames = nev ArrayList < String > (256);

register(annotatedClasses); 注册 BeanDefinition容器

AnnotationConfigApplicationContext#register

AnnotatedBeanDefinitionReader#register

AnnotatedBeanDefinitionReader#registerBean

AnnotatedBeanDefinitionReader#registerBean(java.lan g.Class <?>, java.lang.String, java.lang.Class <? extends java.lang.annotation.Annotation>...)

Bean Definition Reader Utils #register Bean Definitio

GenericApplicationContext#registerBeanDefinition

DefaultListableBeanFactory#registerBeanDefinition this.beanDefinitionMap.put(beanName, beanDefinition); this.beanDefinitionNames.add(beanName);

refresh();将对象实例放到IOC容器中

AbstractApplicationContext#finishBeanFactoryInitialization

Configurable Listable Bean Factory # pre Instantiate Singletons

AbstractBeanFactory#getBean(java.lang.String)

AbstractBeanFactory#doGetBean

Default Singlet on Bean Registry #get Singlet on (java.lang. String), org.springframework.beans.factory.ObjectFactory<?>) singletonObject = singletonFactory.getObject();

AbstractBeanFactory#createBean

AbstractAutowireCapableBeanFactory#doCreateBean

AbstractAutowireCapableBeanFactory#createBeanInstance

AbstractAutowireCapableBeanFactory#instantiateBean

In stantiation Strategy # in stantiate (or g. spring framework. be a like the stantiation of the stantiatins.factory.support.RootBeanDefinition, java.lang.String, org.springframework.beans.factory.BeanFactory)

Bean Utils #instantiate Class (java.lang.reflect.Constructor < T >, java.lang.Object...)

java.lang.reflect.Constructor#newInstance

将对象实例放到IOC容器中

DefaultSingletonBeanRegistry#addSingleton protected void addSingleton(String beanName, Object singletonObject) { synchronized (this.singletonObjects) { this.singletonObjects.put(beanName, singletonObject); this.singletonFactories.remove(beanName); this.earlySingletonObjects.remove(beanName); this.registeredSingletons.add(beanName);