

Do inferno ao céu com



fugindo do JAR e do Classloader Hell

Do inferno ao céu com OSGi



@steppat

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... define um sistema dinâmico de componentes para plataforma Java ...

OSGi - Mercado



	sem osgi	osgi, mas escondido	osgi e visível	solução própria
Apache Geronimo	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Apache Tomcat	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Eclipse Virgo	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Glassfish	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
JBoss Application Server	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
JOnAS	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
WebLogic	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
WebSphere	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>



JAR + Meta-Informações



Eclipse Equinox, Apache Felix



Apache Karaf

Apache Karaf, Eclipse Virgo

Console, Maven, Provisioning...

Apache Aries, Eclipse Gemini

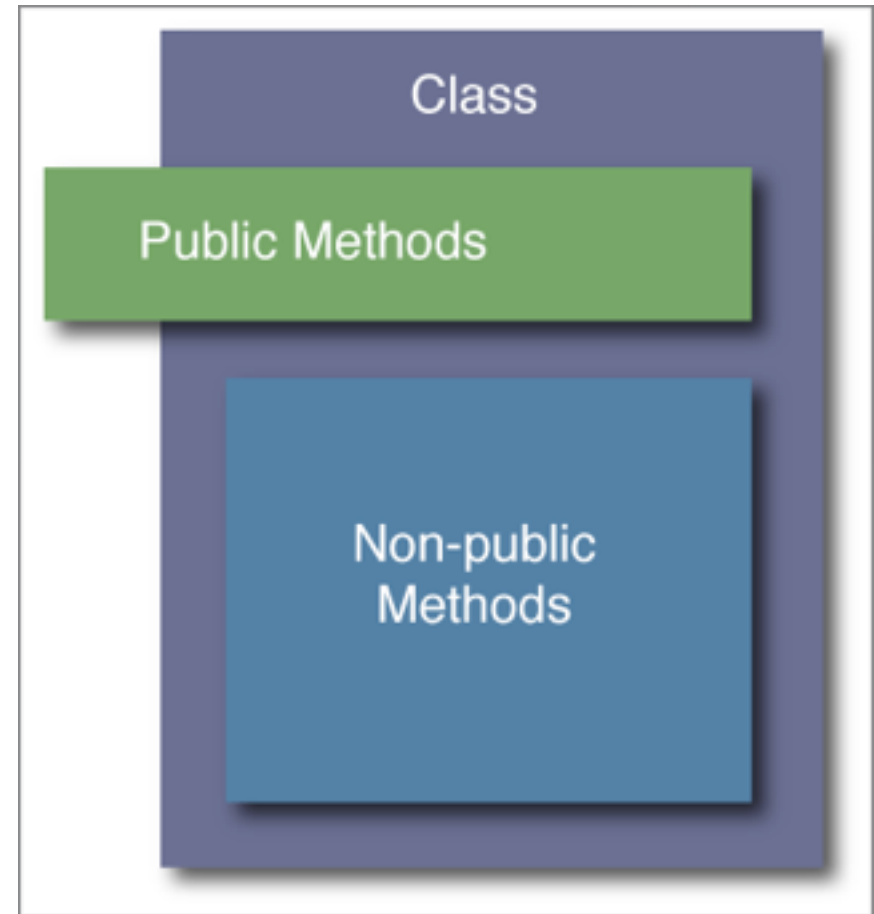
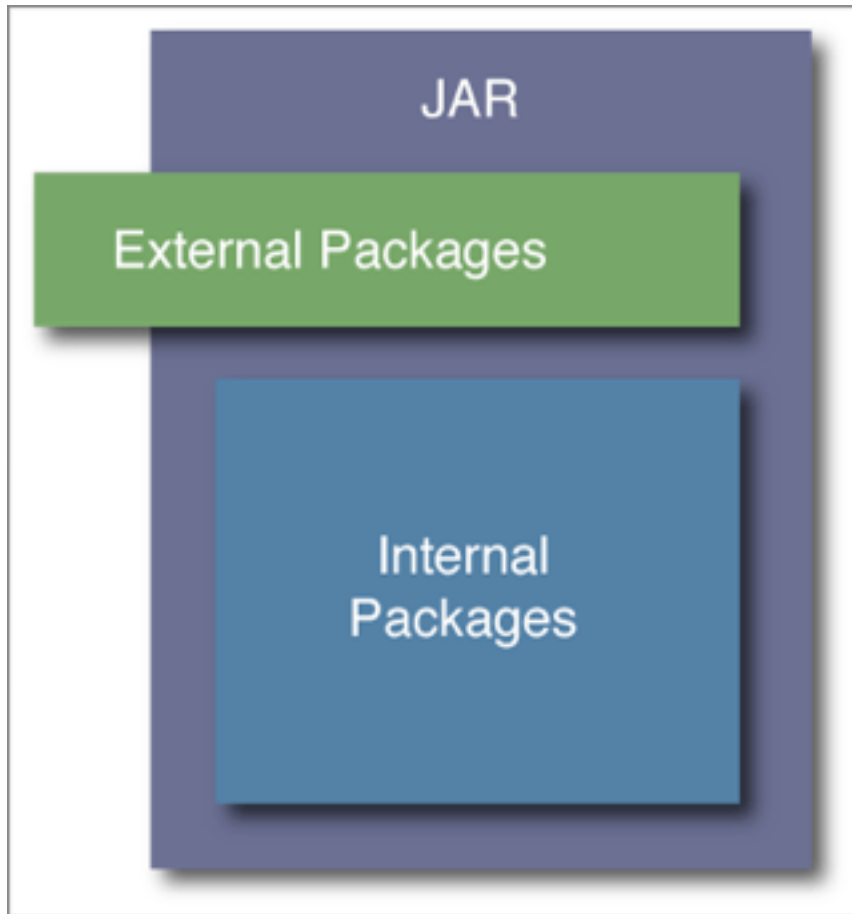
OSGi Enterprise

Apache Felix, Eclipse Equinox

OSGi Runtime

JRE

Visibilidade e Encapsulamento

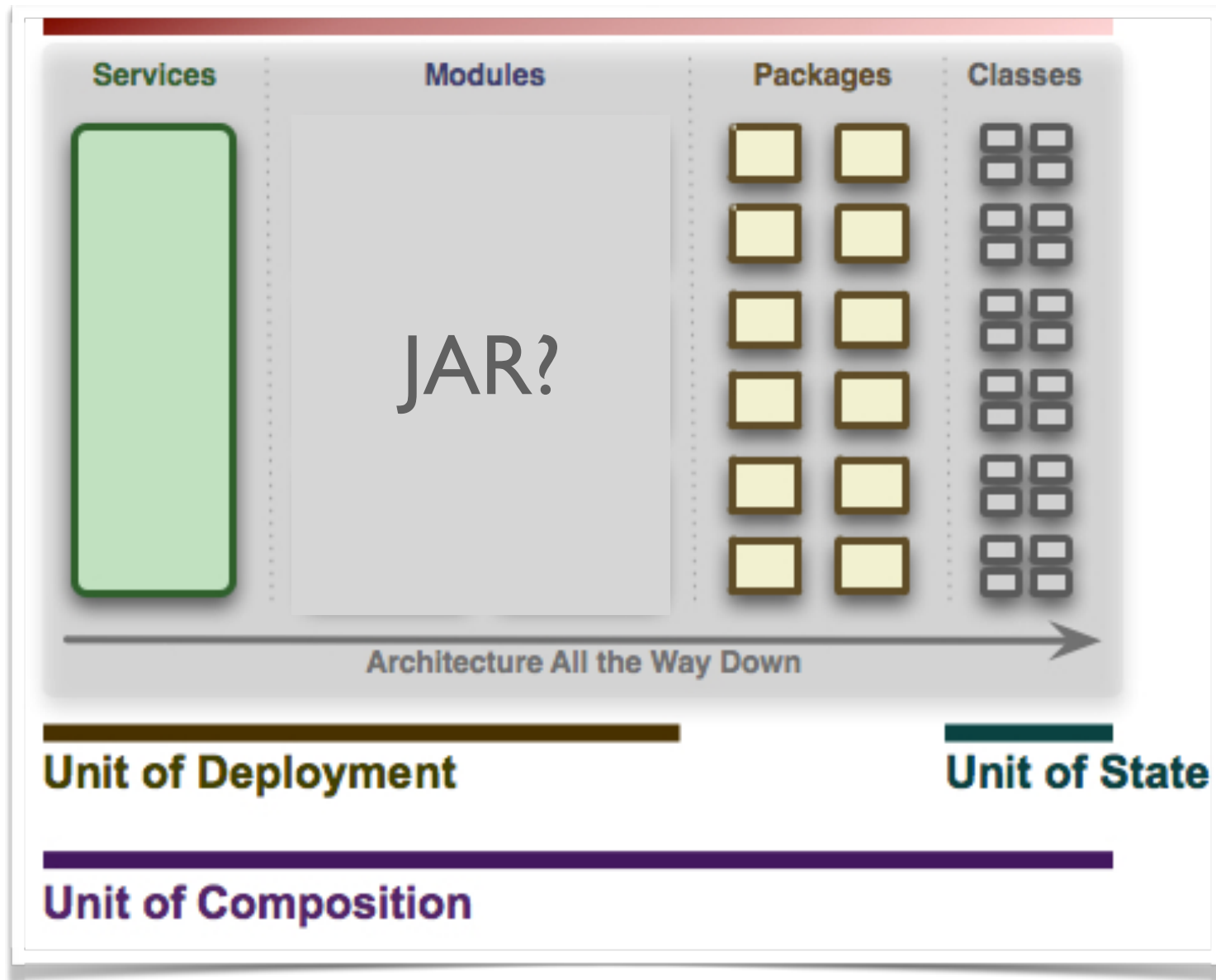




VRaptor 4.0.0 - 335 classes publicas

Guava 18.0 - 1157 classes publicas

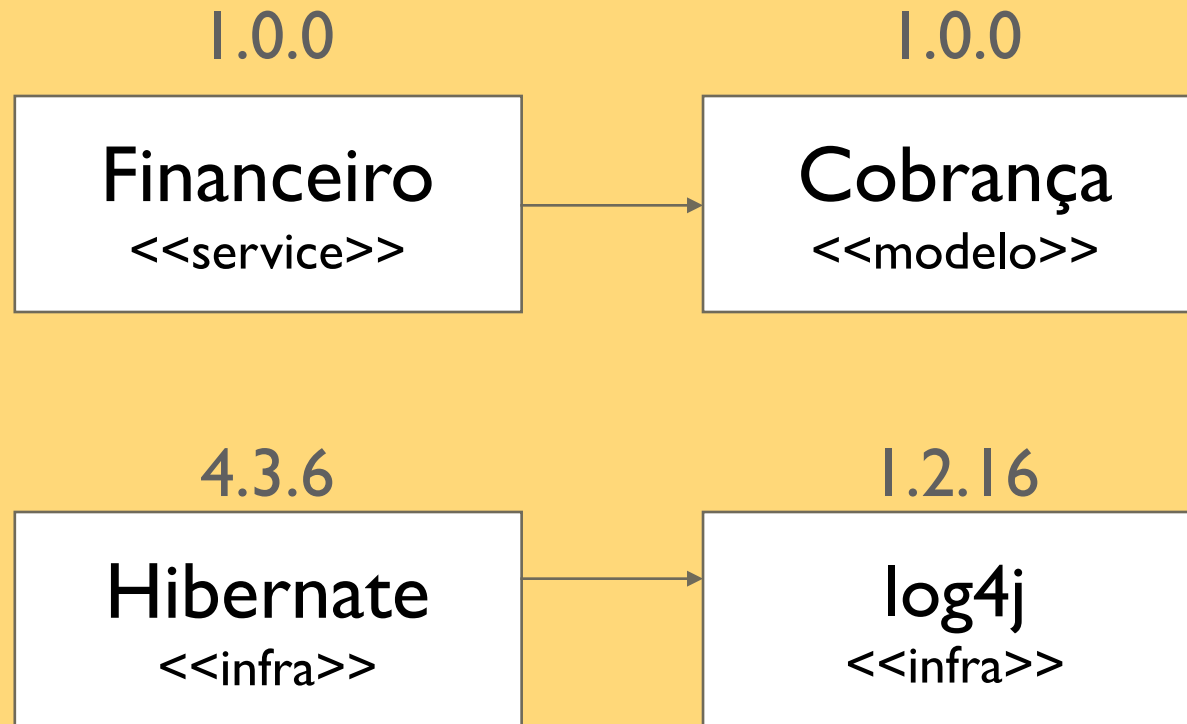
Granularidade





*com.sun.org.apache.xerces.internal.parsers.**

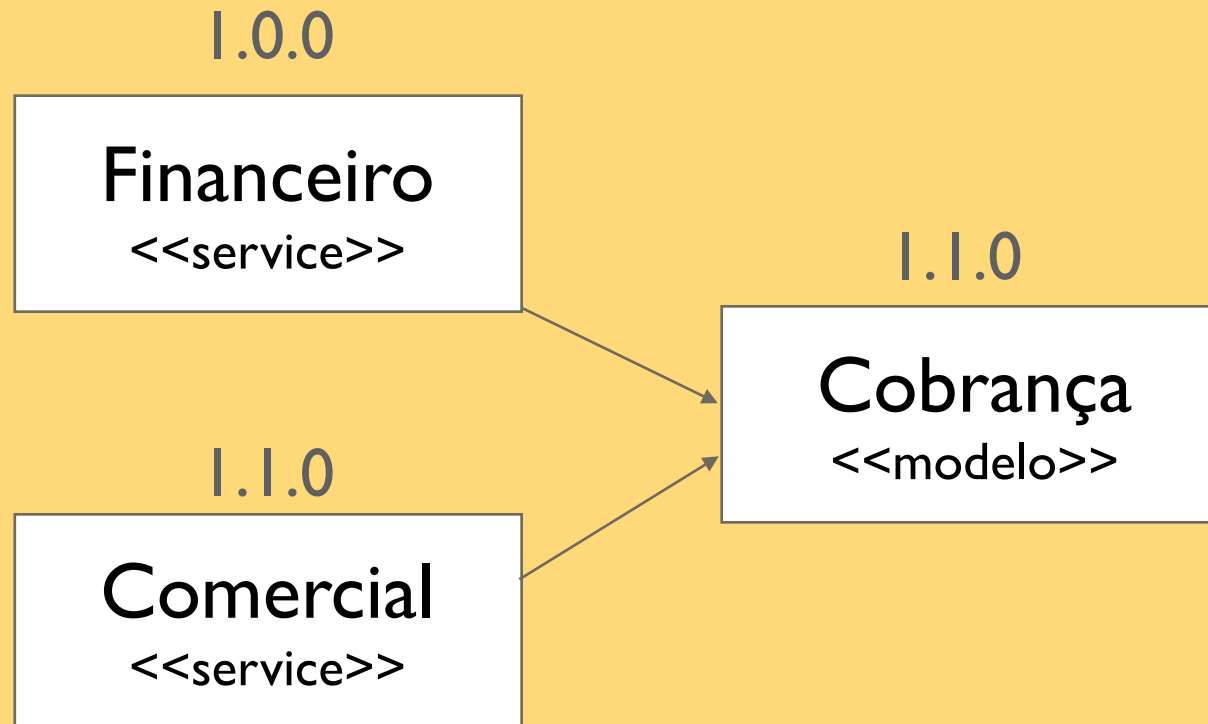
*jersey.repackaged.com.google.common.base.**



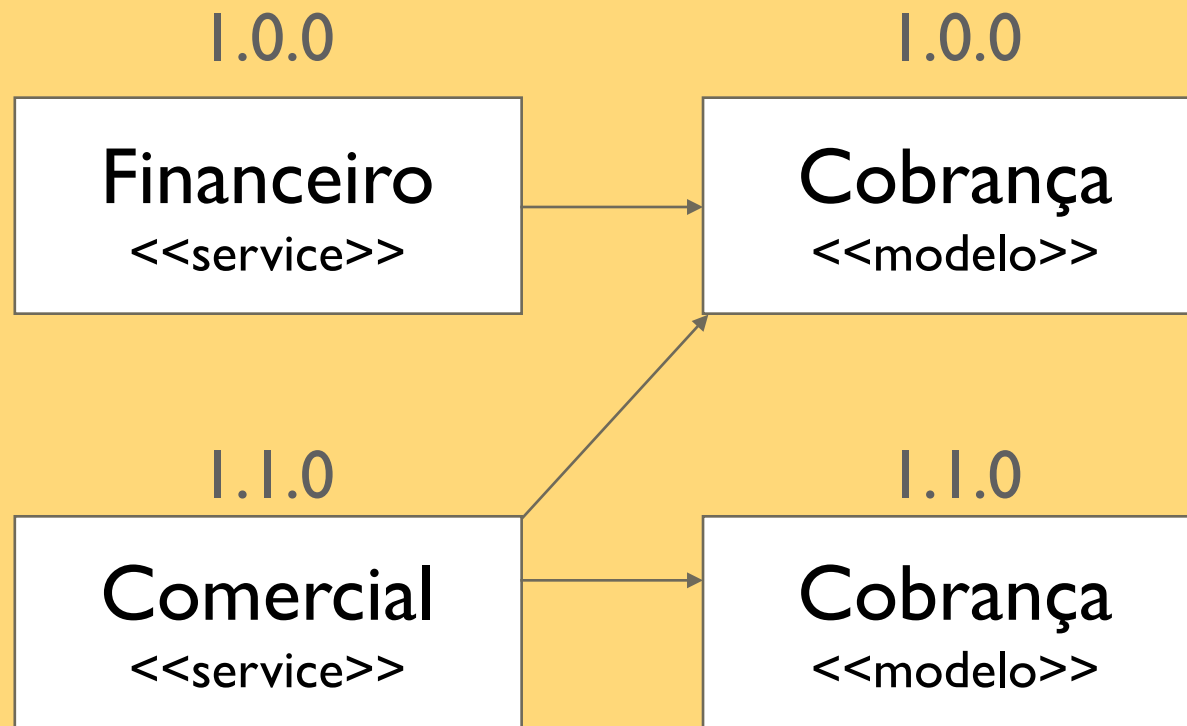


Demo I - *JAR Hell*

JAR Hell - Classpath

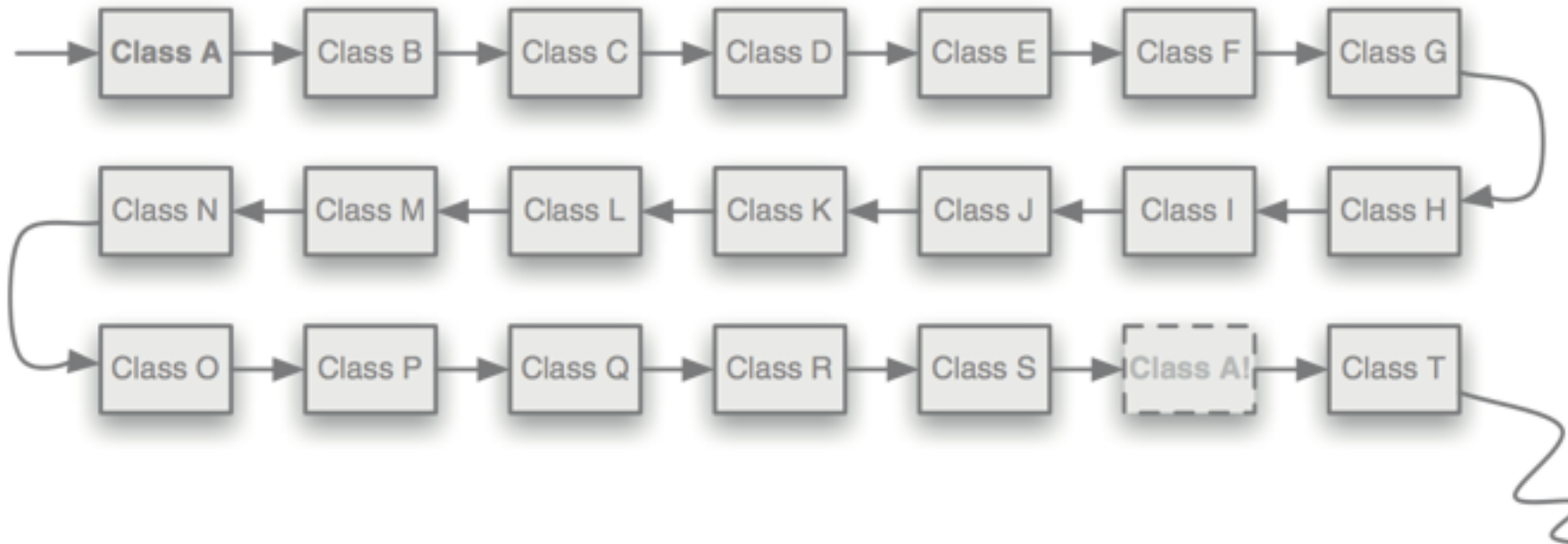


JAR Hell - o classpath



NoSuchMethodError, ClassNotFoundException, NoClassDefFoundError

JAR Hell - o classpath



OSGi - Bundle Loader, Runtime Versioning



JAR



OSGi



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...)

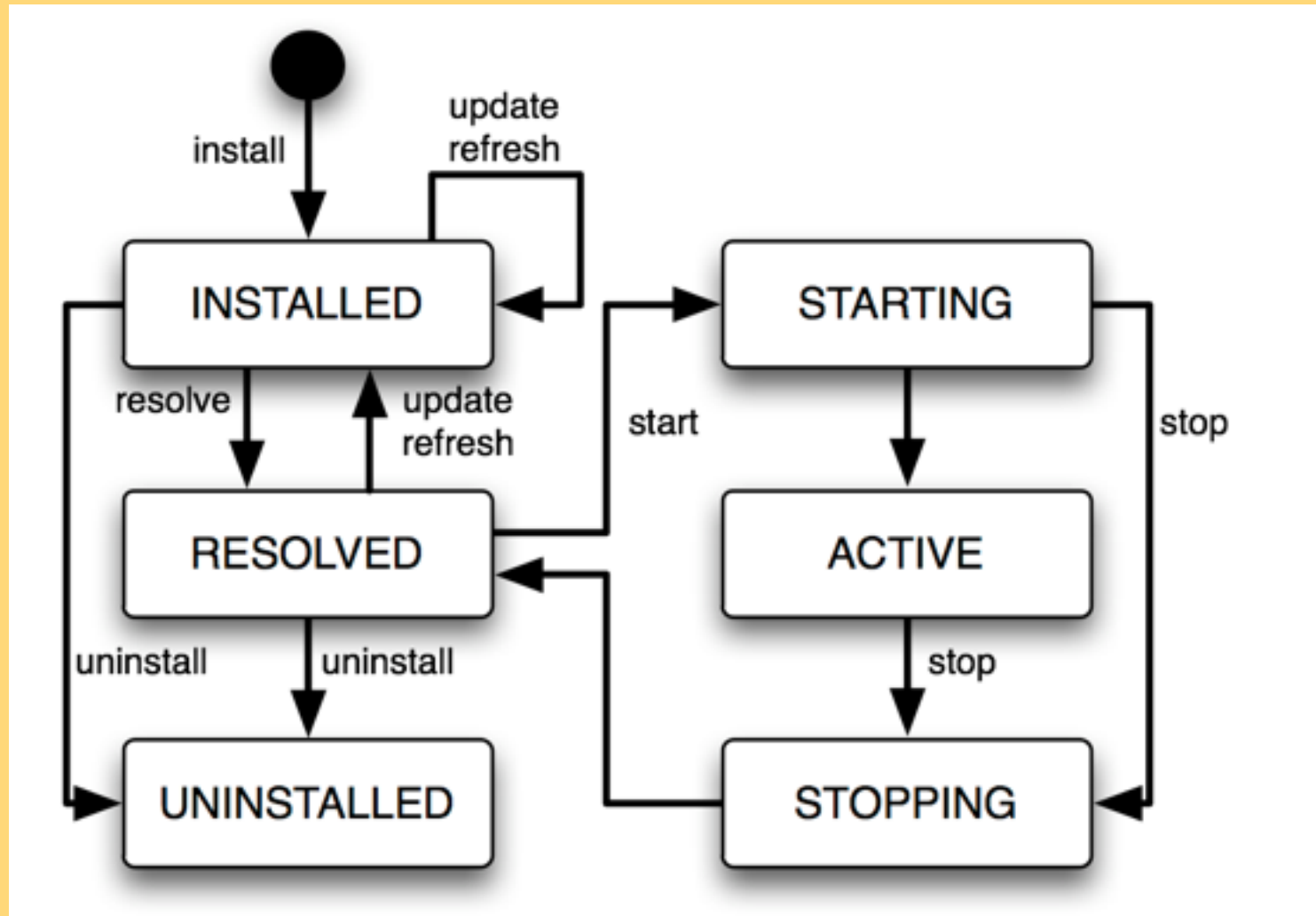


Demo 2

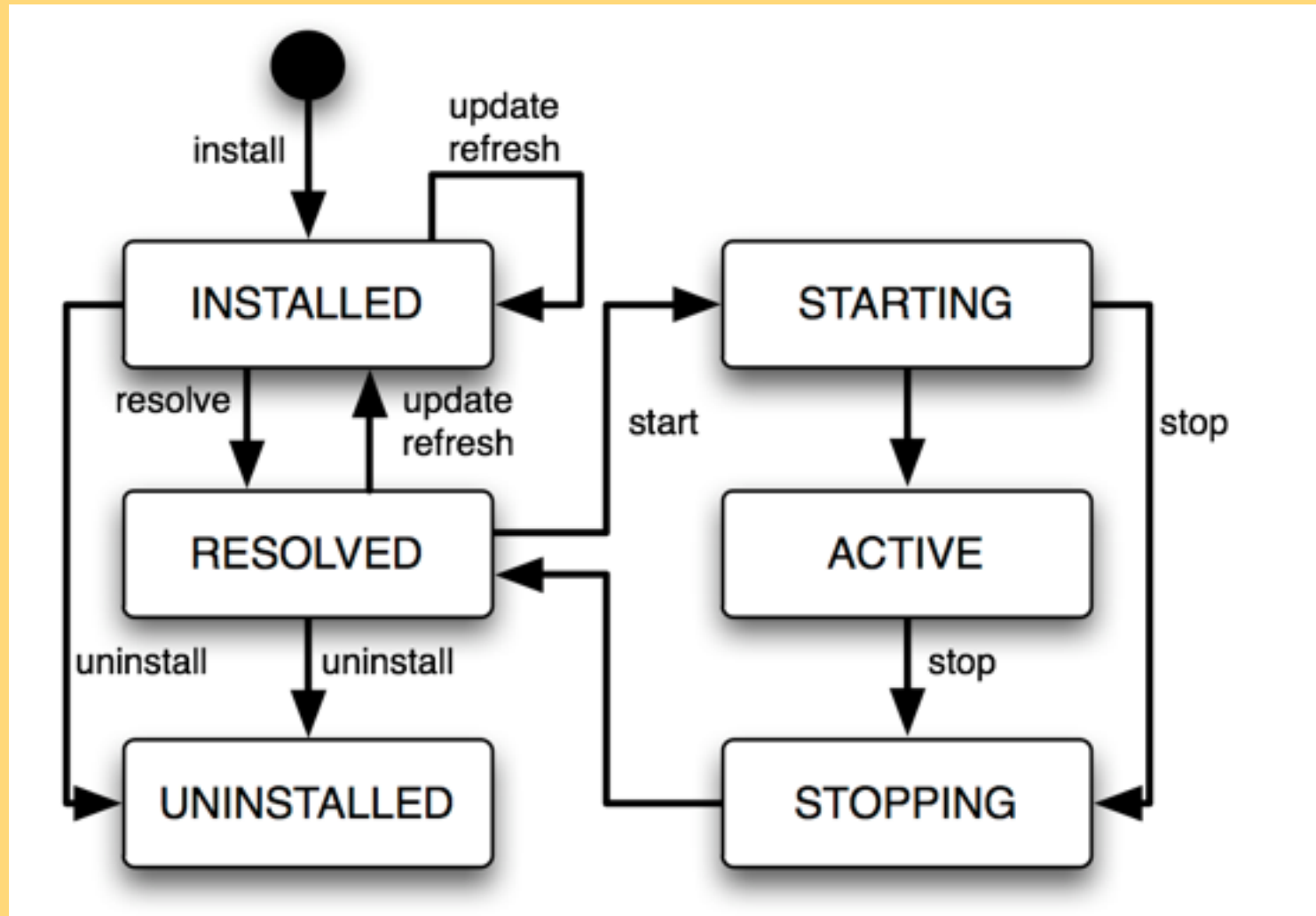
-

Bundles Lifecycle

OSGi - Bundle Lifecycle

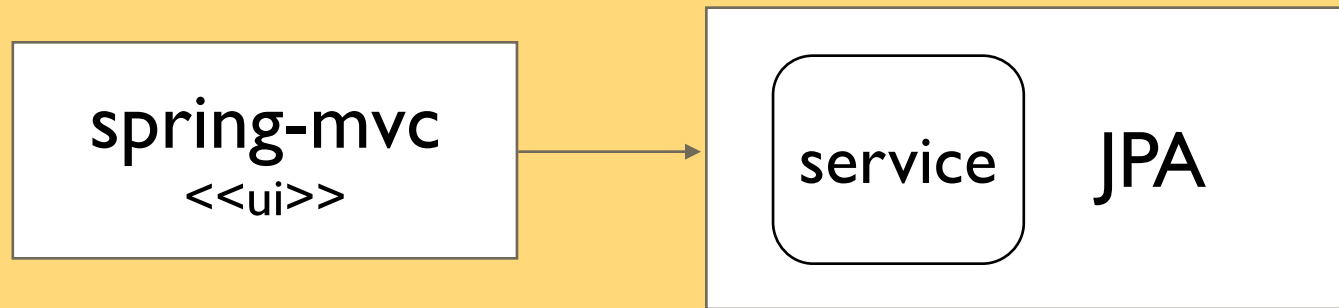


OSGi - Bundle Lifecycle



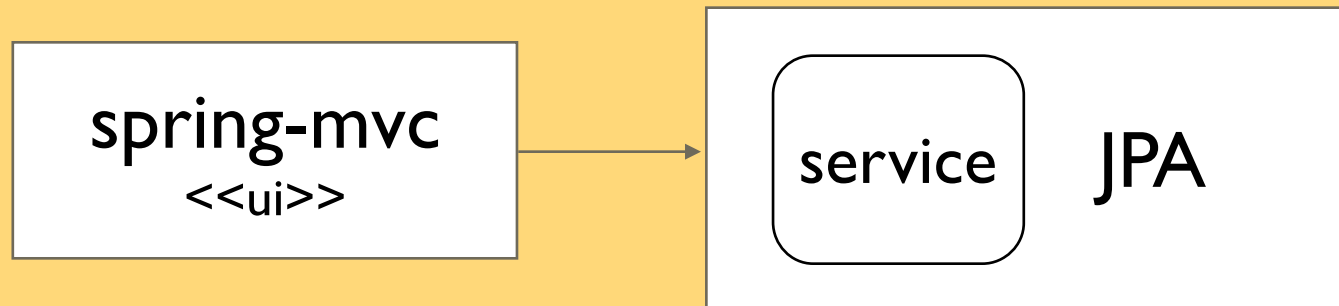


Apache Karaf





Apache Karaf



maven

```
<modelVersion>4.0.0</modelVersion>
<artifactId>model</artifactId>
<packaging>bundle</packaging>
```

cxfrt-transports-http » 3.0.1

Apache CXF Runtime HTTP Transport

Artifact

[Download \(BUNDLE \)](#) (248 KB)

POM File

[View](#)



Demo 3

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Spring MVC e JPA

