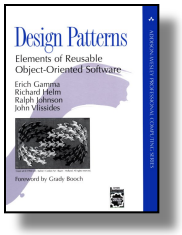
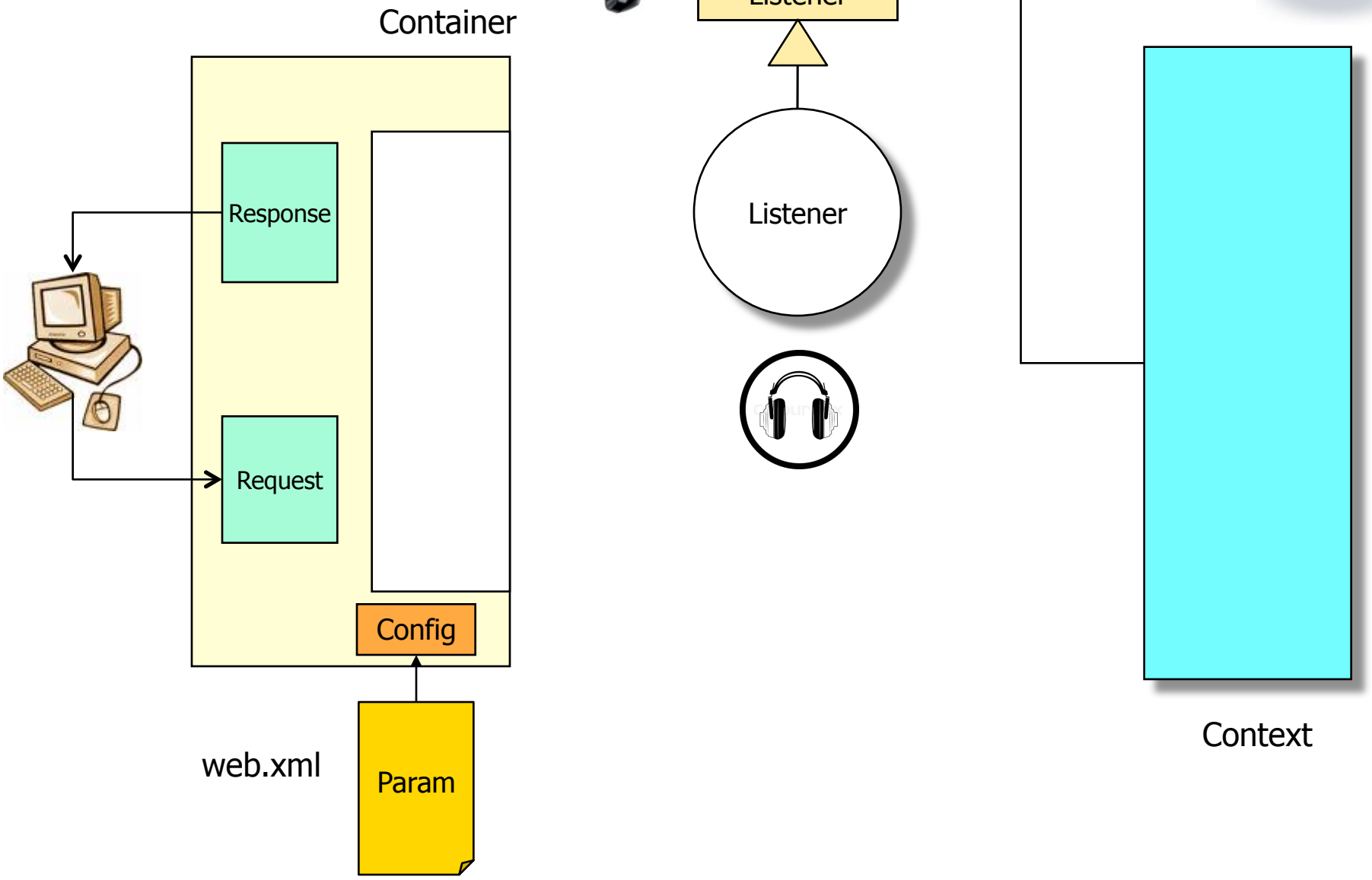


Architecture des Systèmes d'Information

Servlet Listener

Big Picture


Container
Response
Request
Config
web.xml
Param
Servlet
Listener
event
Listener
Context

Listeners

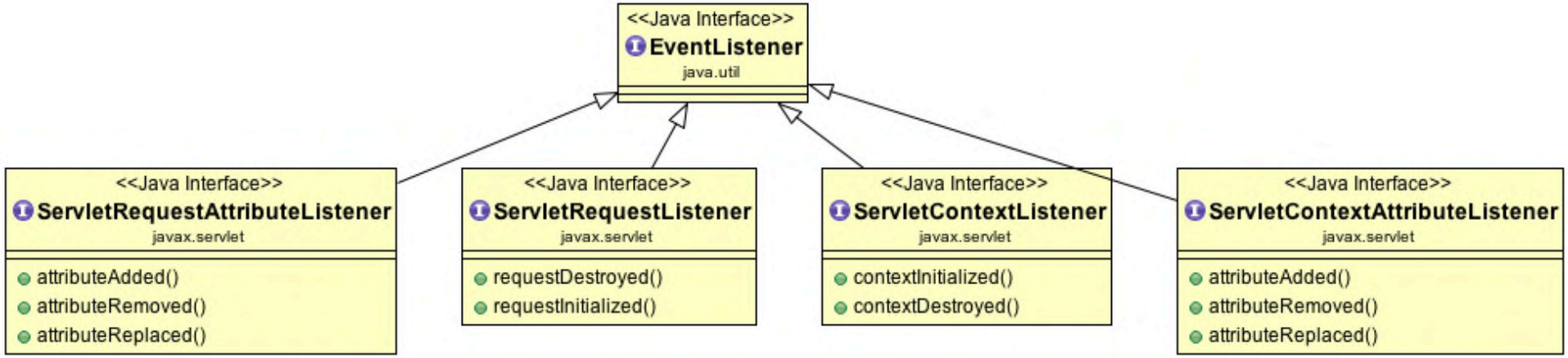
<<Java Interface>>
ServletRequestListener
javax.servlet
requestDestroyed()
requestInitialized()

<<Java Interface>>
ServletRequestAttributeListener
javax.servlet
attributeAdded()
attributeRemoved()
attributeReplaced()

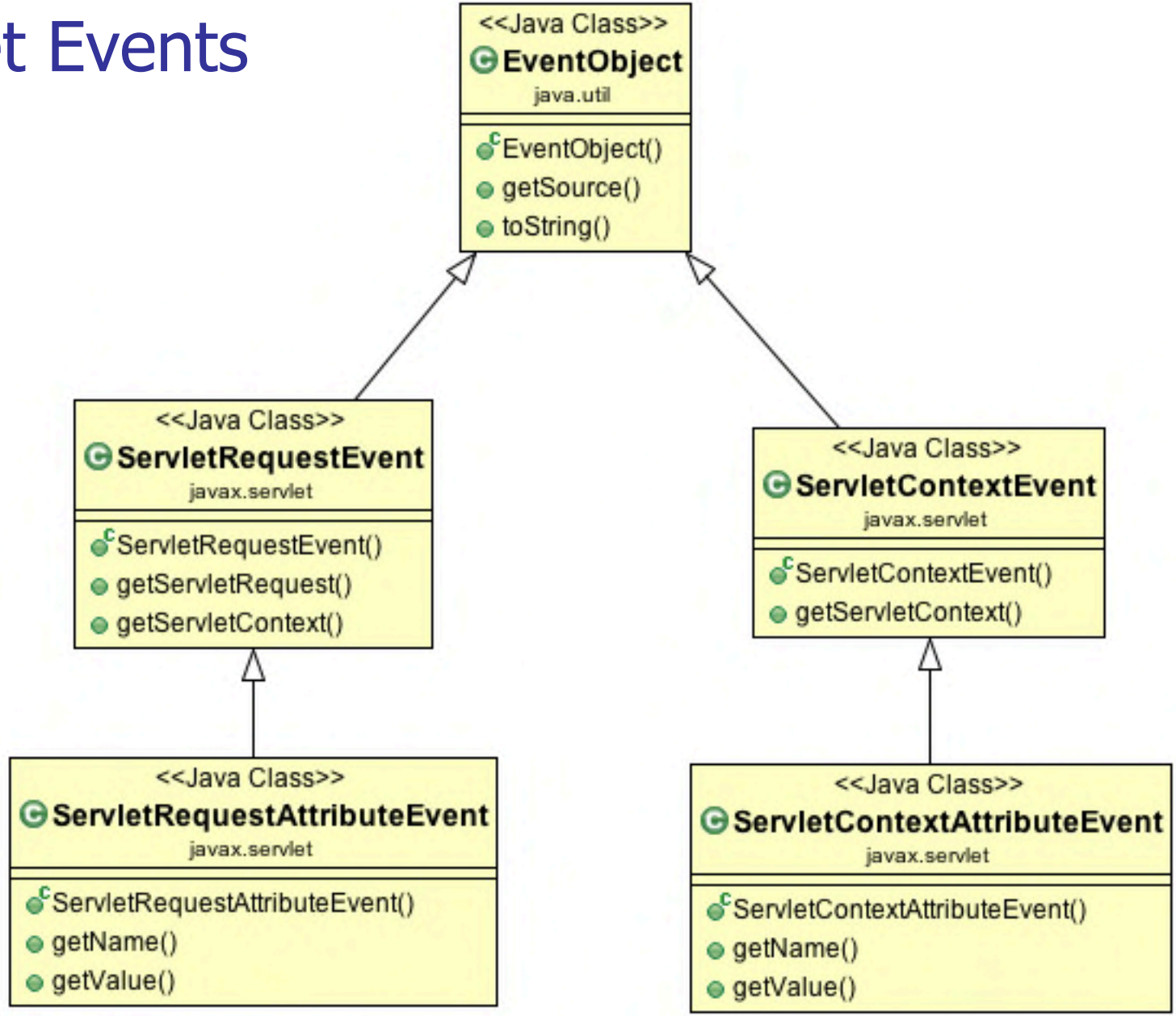
<<Java Interface>>
ServletContextListener
javax.servlet
contextInitialized()
contextDestroyed()

<<Java Interface>>
ServletContextAttributeListener
javax.servlet
attributeAdded()
attributeRemoved()
attributeReplaced()

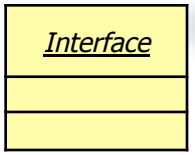
Listeners


<<Java Interface>>
EventListener
java.util
<<Java Interface>>
ServletRequestAttributeListener
javax.servlet
attributeAdded()
attributeRemoved()
attributeReplaced()
<<Java Interface>>
ServletRequestListener
javax.servlet
requestDestroyed()
requestInitialized()
<<Java Interface>>
ServletContextListener
javax.servlet
contextInitialized()
contextDestroyed()
<<Java Interface>>
ServletContextAttributeListener
javax.servlet
attributeAdded()
attributeRemoved()
attributeReplaced()

Servlet Events



Package javax.servlet.http : Interface



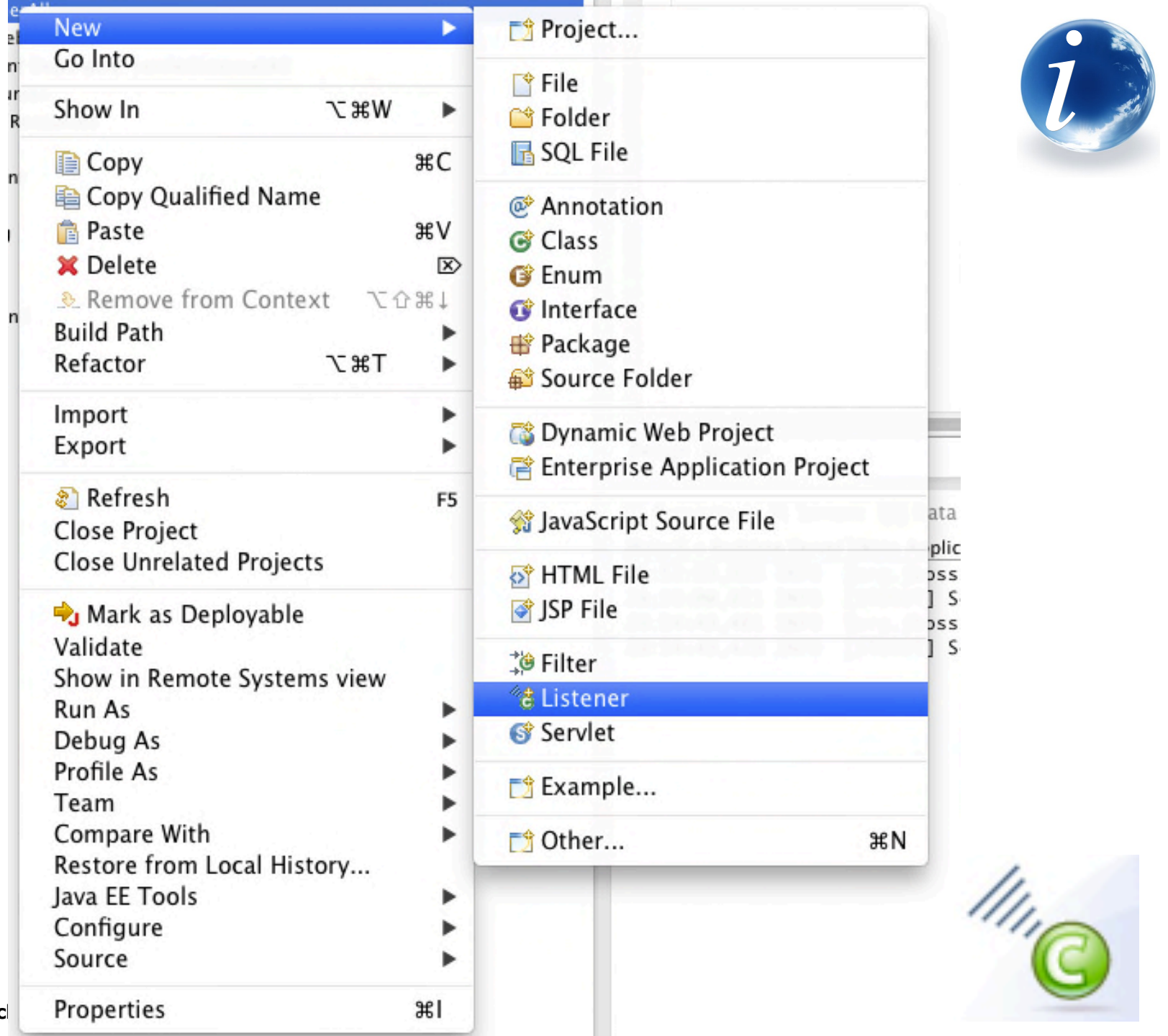
HttpSessionActivationListener	Objects that are bound to a session may listen to container events notifying them that sessions will be passivated and that session will be activated.
HttpSessionAttributeListener	This listener interface can be implemented in order to get notifications of changes to the attribute lists of sessions within this web application.
HttpSessionBindingListener	Causes an object to be notified when it is bound to or unbound from a session.
HttpSessionListener	Implementations of this interface are notified of changes to the list of active sessions in a web application.

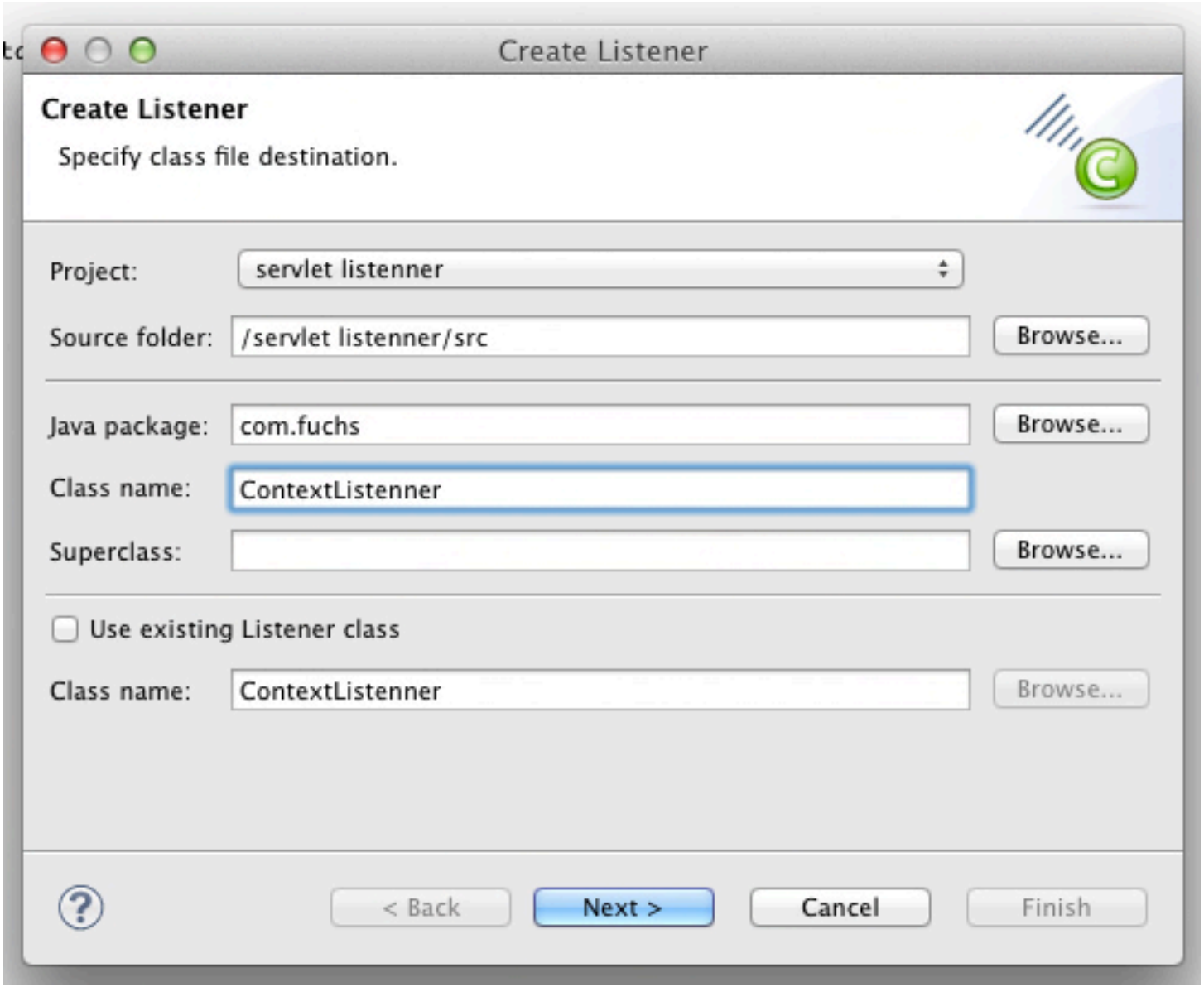
Package javax.servlet : Class

ServletContextAttributeEvent	This is the event class for notifications about changes to the attributes of the servlet context of a web application.
ServletContextEvent	This is the event class for notifications about changes to the servlet context of a web application.
ServletRequestAttributeEvent	This is the event class for notifications of changes to the attributes of the servlet request in an application.
ServletRequestEvent	Events of this kind indicate lifecycle events for a ServletRequest.

Package javax.servlet.http : Class

HttpSessionBindingEvent	Events of this type are either sent to an object that implements HttpSessionBindingListener when it is bound or unbound from a session, or to a HttpSessionAttributeListener that has been configured in the deployment descriptor when any attribute is bound, unbound or replaced in a session.
HttpSessionEvent	This is the class representing event notifications for changes to sessions within a web application


New
Go Into
Show In ⌥⌘W
Copy ⌘C
Copy Qualified Name
Paste ⌘V
Delete
Remove from Context ⌥⇧⌘↓
Build Path
Refactor ⌥⌘T
Import
Export
Refresh F5
Close Project
Close Unrelated Projects
Mark as Deployable
Validate
Show in Remote Systems view
Run As
Debug As
Profile As
Team
Compare With
Restore from Local History...
Java EE Tools
Configure
Source
Properties ⌘I
Project...
File
Folder
SQL File
Annotation
Class
Enum
Interface
Package
Source Folder
Dynamic Web Project
Enterprise Application Project
JavaScript Source File
HTML File
JSP File
Filter
Listener
Servlet
Example...
Other... ⌘N


Create Listener
Create Listener
Specify class file destination.
Project:
servlet listenner
Source folder:
/servlet listenner/src
Browse...
Java package:
com.fuchs
Browse...
Class name:
ContextListenner
Superclass:
Browse...
Use existing Listener class
Class name:
ContextListenner
Browse...
< Back
Next >
Cancel
Finish

Create Listener

Create Listener

Select the application lifecycle events to listen to.

Servlet context events

- [ ] Lifecycle — javax.servlet.ServletContextListener
- [ ] Changes to attributes — javax.servlet.ServletContextAttributeListener

HTTP session events

- [ ] Lifecycle — javax.servlet.http.HttpSessionListener
- [ ] Changes to attributes — javax.servlet.http.HttpSessionAttributeListener
- [ ] Session migration — javax.servlet.http.HttpSessionActivationListener
- [ ] Object binding — javax.servlet.http.HttpSessionBindingListener

Servlet request events

- [ ] Lifecycle — javax.servlet.ServletRequestListener
- [ ] Changes to attributes — javax.servlet.ServletRequestAttributeListener

Select All | Deselect All

< Back | Next > | Cancel | Finish

Create Listener

Create Listener

Select the application lifecycle events to listen to.

Servlet context events

- [x] Lifecycle — javax.servlet.ServletContextListener
- [ ] Changes to attributes — javax.servlet.ServletContextAttributeListener

HTTP session events

- [ ] Lifecycle — javax.servlet.http.HttpSessionListener
- [ ] Changes to attributes — javax.servlet.http.HttpSessionAttributeListener
- [ ] Session migration — javax.servlet.http.HttpSessionActivationListener
- [ ] Object binding — javax.servlet.http.HttpSessionBindingListener

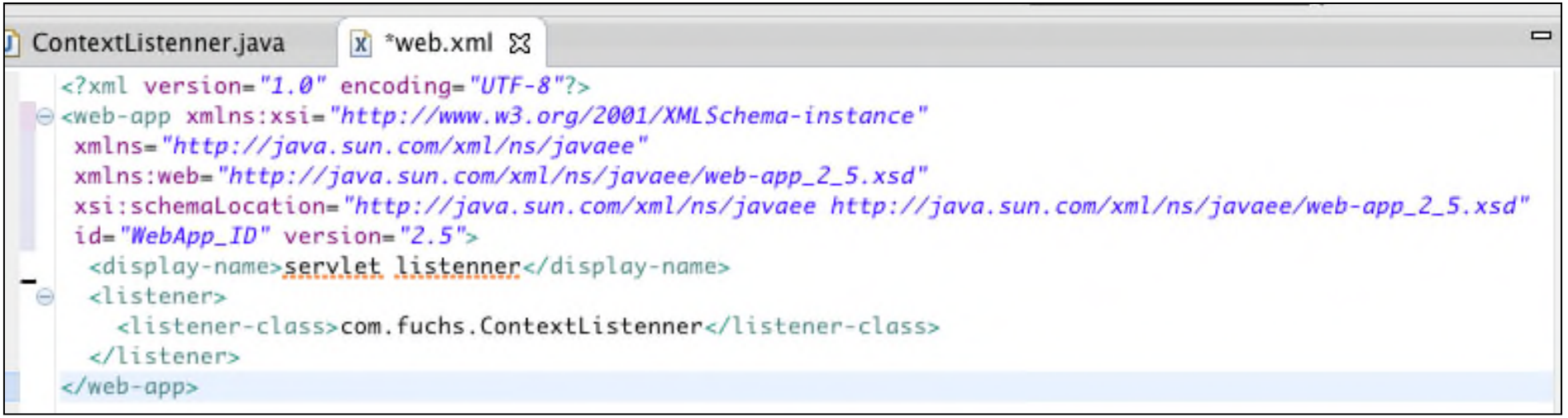
Servlet request events

- [ ] Lifecycle — javax.servlet.ServletRequestListener
- [ ] Changes to attributes — javax.servlet.ServletRequestAttributeListener

Select All | Deselect All

< Back | Next > | Cancel | Finish

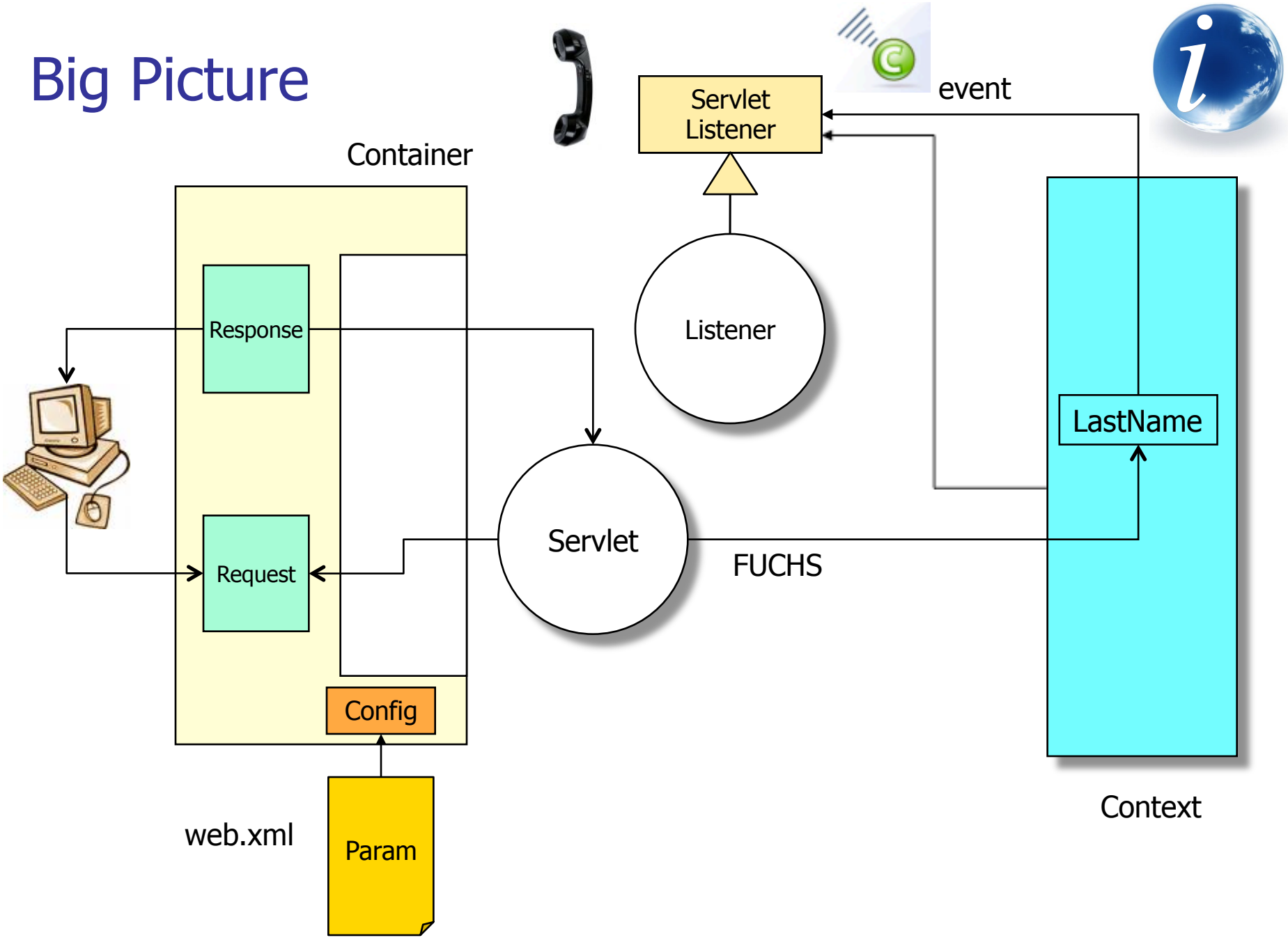
```java
package com.fuchs;

import javax.servlet.ServletContextEvent;

/**
 * Application Lifecycle Listener implementation class ContextListenner
 *
 */
public class ContextListenner implements ServletContextListener {


    public void contextInitialized(ServletContextEvent arg0) {
        System.out.println("ServletContextListener started");
    }


    public void contextDestroyed(ServletContextEvent arg0) {
        System.out.println("ServletContextListener destroyed");
    }

}
```


ContextListenner.java
*web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
id="WebApp_ID" version="2.5">
<display-name>servlet listenner</display-name>
<listener>
<listener-class>com.fuchs.ContextListenner</listener-class>
</listener>
</web-app>

```
JBoss 6.x Runtime Server [JBoss Application Server Startup Configuration] /System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Contents/Home/bin/java (2 févr. 2014 11:35:25)
20:52:59,929 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] deploy, ctxPath=/servletlistenner
20:53:00,021 INFO  [STDOUT] ServletContextListener started
```

```
JBoss 6.x Runtime Server [JBoss Application Server Startup Configuration] /System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Contents/Home/bin/jav
20:52:59,929 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] deploy, ctxPath=/servletlistenner
20:53:00,021 INFO  [STDOUT] ServletContextListener started
20:54:49,401 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] undeploy, ctxPath=/servletlistenner
20:54:49,429 INFO  [STDOUT] ServletContextListener destroyed
```

Big Picture


Container
Servlet Listener
event
Response
Listener
LastName
Request
Servlet
FUCHS
Config
web.xml
Param
Context

Attribute context listener

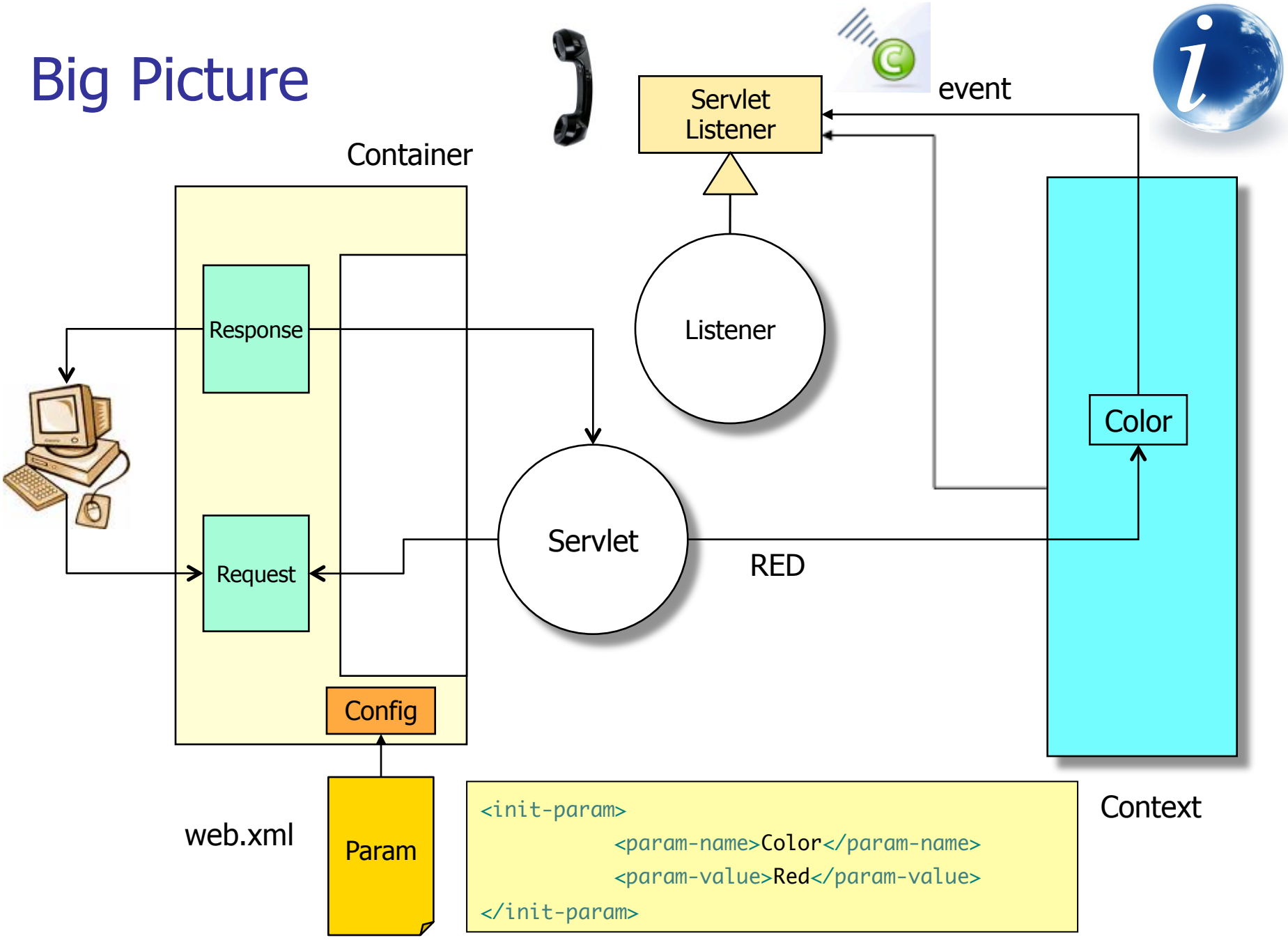
```java
import java.io.IOException;

/**
 * Servlet implementation class AttribEvent
 */
public class AttribEvent extends HttpServlet {
    private static final long serialVersionUID = 1L;


    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

        System.out.println( "Servlet Set context OK");

        PrintWriter out = response.getWriter();

        ServletContext context = getServletContext();

        getServletContext().setAttribute("lastName", "fuchs");

        out.println("My last name is " + context.getAttribute("lastName"));
    }
}
```

Context attribute listener

```java
import javax.servlet.ServletContextAttributeEvent;

/**
 * Application Lifecycle Listener implementation class AttribContextListener
 *
 */
public class AttribContextListener implements ServletContextAttributeListener, ServletContextListener {

    public void contextInitialized(ServletContextEvent arg0) {
        System.out.println("ServletContextListener started");
    }

    public void attributeAdded(ServletContextAttributeEvent arg0) {
        System.out.println("ServletContextListener Attribute added");
    }

    public void attributeReplaced(ServletContextAttributeEvent arg0) {
        System.out.println("ServletContextListener Attribute replaced");
    }

     public void attributeRemoved(ServletContextAttributeEvent arg0) {
        System.out.println("ServletContextListener Attribute removed");
    }

    public void contextDestroyed(ServletContextEvent arg0) {
        System.out.println("ServletContextListener Context destroyed");
    }

}
```

```
JBoss 6.x Runtime Server [JBoss Application Server Startup Configuration] /System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Contents/Home/bin/java
17:40:09,878 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] deploy, ctxPath=/attribEvent
17:40:09,892 INFO  [STDOUT] ServletContextListener started
17:40:10,794 INFO  [STDOUT] Servlet Set context OK
17:40:10,795 INFO  [STDOUT] ServletContextListener Attribute added
17:40:14,905 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] undeploy, ctxPath=/attribEvent
17:40:14,907 INFO  [STDOUT] ServletContextListener Context destroyed
17:40:15,011 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] deploy, ctxPath=/attribEvent
17:40:15,025 INFO  [STDOUT] ServletContextListener started
17:40:37,410 INFO  [STDOUT] Servlet Set context OK
17:40:37,411 INFO  [STDOUT] ServletContextListener Attribute added
17:40:51,659 INFO  [STDOUT] Servlet Set context OK
17:40:51,660 INFO  [STDOUT] ServletContextListener Attribute replaced
17:41:08,405 INFO  [org.jboss.web.tomcat.service.deployers.TomcatDeployment] undeploy, ctxPath=/attribEvent
17:41:08,407 INFO  [STDOUT] ServletContextListener Context destroyed
```

Big Picture


Container
Servlet Listener
event
Response
Listener
Color
Request
Servlet
RED
Config
web.xml
Param
<init-param>
<param-name>Color</param-name>
<param-value>Red</param-value>
</init-param>
Context