

# Directive 지시어

- A. <%@ page ..... %>
- B. <%@ include ..... %>
- C. <%@ taglib ..... %>

교사 최선경

# A. `<%@ page import=" " %>`

ex4\_Direc - projDirective/WebContent/index\_page.jsp - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- projDirective
  - Deployment Descriptor: projDirective
  - JAX-WS Web Services
  - Java Resources
    - src
    - WebContent/WEB-INF/lib
    - Libraries
  - JavaScript Resources
  - build
  - WebContent
    - err
      - error\_500.jsp
    - images
      - pic.jpg
    - META-INF
      - MANIFEST.MF
    - view
      - footer.jsp
      - header.jsp
    - WEB-INF
      - lib
        - jstl-1.2.jar
      - index\_include.jsp
      - index\_page\_err.jsp
      - index\_page.jsp
      - index\_taglib.jsp
  - Servers

Insert title here

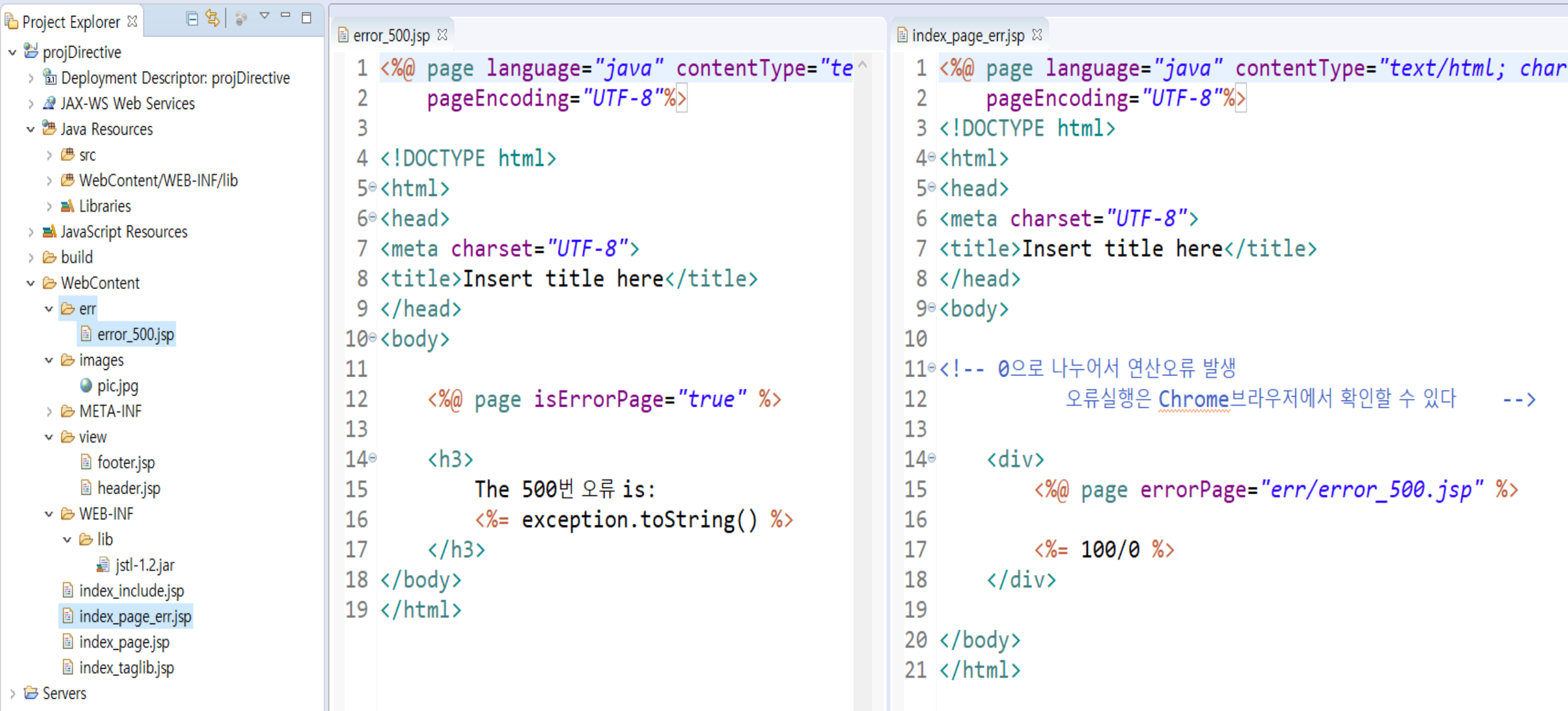
rojDirective/index\_page.jsp

Today is: Mon Mar 21 05:04:28 KST 2022

Index\_page.jsp

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="UTF-8">
7   <title>Insert title here</title>
8 </head>
9 <body>
10
11   <!-- 자바의 import와 유사하게 기능을 사용할 수 있다. -->
12   <div>
13     <%@ page import="java.util.Date" %>
14     Today is: <%= new Date() %>
15   </div>
16
17 </body>
18 </html>
```

# A. <%@ page errorPage=" " %>



The screenshot displays an IDE interface with a Project Explorer on the left and two code editors on the right.

**Project Explorer:**

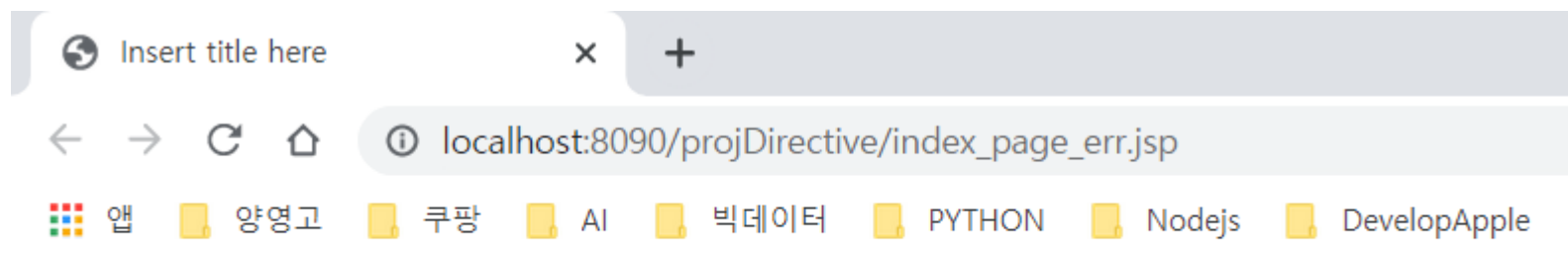
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**error\_500.jsp:**

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" %>
2     pageEncoding="UTF-8"%>
3
4 <!DOCTYPE html>
5 <html>
6 <head>
7 <meta charset="UTF-8">
8 <title>Insert title here</title>
9 </head>
10 <body>
11
12     <%@ page isErrorPage="true" %>
13
14     <h3>
15         The 500번 오류 is:
16         <%= exception.toString() %>
17     </h3>
18 </body>
19 </html>
```

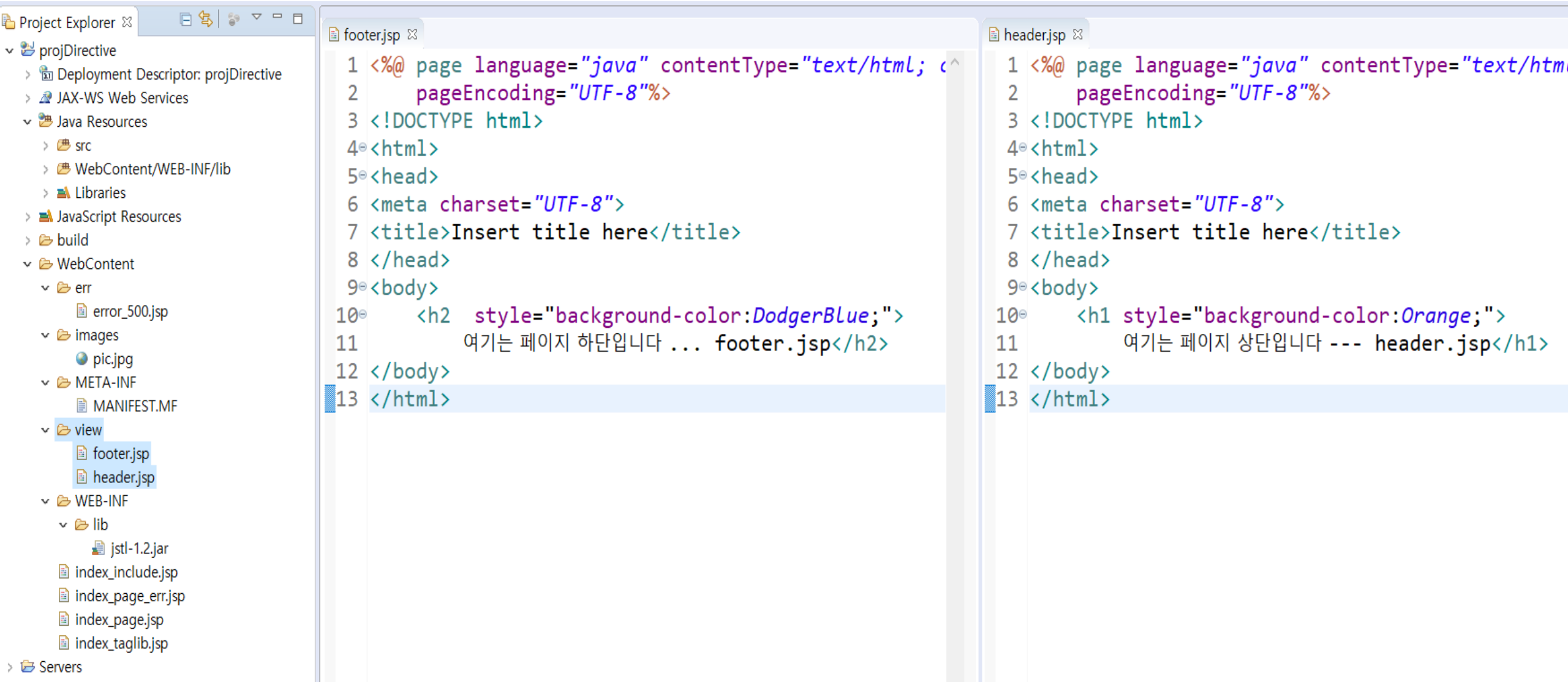
**index\_page\_err.jsp:**

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" %>
2     pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>Insert title here</title>
8 </head>
9 <body>
10
11 <!-- 0으로 나누어서 연산오류 발생
12         오류실행은 Chrome브라우저에서 확인할 수 있다 -->
13
14 <div>
15     <%@ page errorPage="err/error_500.jsp" %>
16
17     <%= 100/0 %>
18 </div>
19
20 </body>
21 </html>
```



**The 500번 오류 is: java.lang.ArithmeticException: / by zero**

## B. `<%@ include file = "포함할파일명" %>`

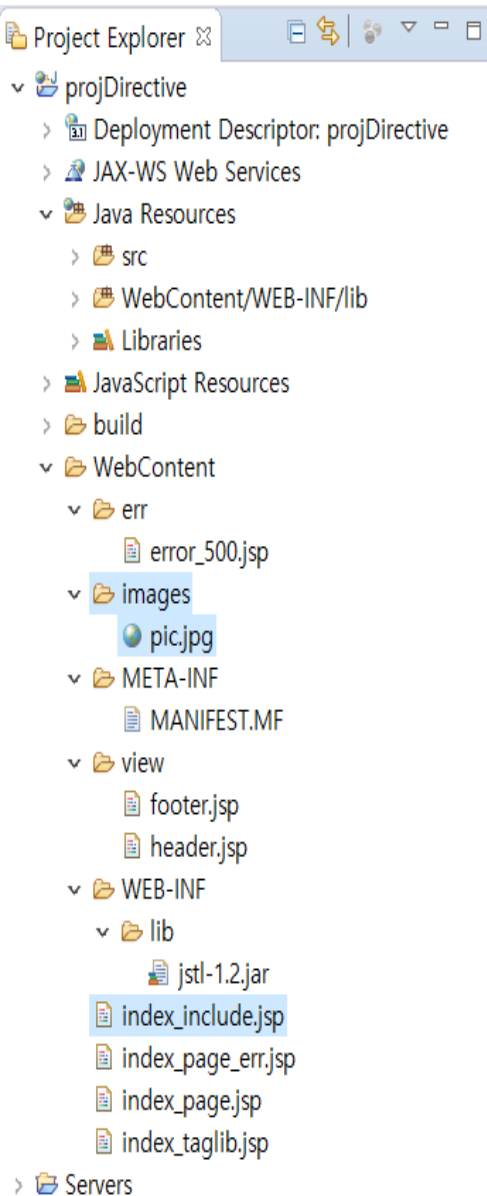


The screenshot displays an IDE interface with a Project Explorer on the left and two code editors on the right. The Project Explorer shows a project named 'projDirective' with various resources, including a 'view' folder containing 'footer.jsp' and 'header.jsp'. The 'footer.jsp' editor shows the following code:

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" %>
2     pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>Insert title here</title>
8 </head>
9 <body>
10     <h2 style="background-color:DodgerBlue;">
11         여기는 페이지 하단입니다 ... footer.jsp</h2>
12 </body>
13 </html>
```

The 'header.jsp' editor shows the following code:

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" %>
2     pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>Insert title here</title>
8 </head>
9 <body>
10     <h1 style="background-color:Orange;">
11         여기는 페이지 상단입니다 --- header.jsp</h1>
12 </body>
13 </html>
```



Insert title here

http://localhost:8090/projDirective/index\_include.jsp

여기는 페이지 상단입니다 --- header.jsp

본문 페이지입니다.



여기는 페이지 하단입니다 ... footer.jsp

\*index\_include.jsp

```
1 <%@ page language="java" contentType="text/html;  
2     pageEncoding="UTF-8"%>  
3 <!DOCTYPE html>  
4 <html>  
5 <head>  
6 <meta charset="UTF-8">  
7 <title>Insert title here</title>  
8 </head>  
9 <body>  
10  
11     <%@ include file="./view/header.jsp" %>  
12  
13     <h2>본문 페이지입니다.</h2>  
14       
16  
17     <%@ include file="./view/footer.jsp" %>  
18  
19 </body>  
20 </html>
```

C. <%@ taglib .... %>

JSTL 사용을 위해 다운받기

<https://mvnrepository.com> ▼

**Maven Repository: Search/Browse/Explore**

Powered by: Scala, Play, Spark, Akka and Cassandra. Copyright © 2006-2022 **MvnRepository**.

All rights reserved. Web site developed by @frodriguez



## Repository

- Central 84
- Sonatype 18
- Spring Lib M 14
- Spring Plugins 11
- Redhat GA 8
- Mulesoft 7
- IBiblio 5
- Apache Releases 4

## Group

- com.github 14
- org.apache 10
- javax.servlet 8
- org.glassfish 7

## Found 114 results

Sort: **relevance** | popular | newest1. **JSTL**

javax.servlet.jsp.jstl » jstl

JSTL

Last Release on May 14, 2015

8 usage

GPL | CDDL

2. **JSTL**

javax.servlet » jstl

JSTL

Last Release on Jun 23, 2011

1,842 usage

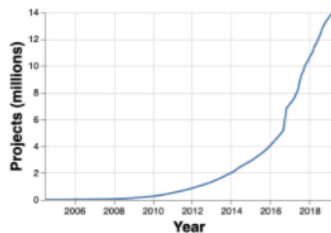
GPL | CDDL

3. **JSTL**

370 usage



## Indexed Artifacts (26.2M)



## Popular Categories

Aspect Oriented  
Actor Frameworks  
Application Metrics  
Build Tools  
Bytecode Libraries  
Command Line Parsers  
Cache Implementations  
Cloud Computing  
Code Analyzers  
Collections  
Configuration Libraries  
Core Utilities  
Date and Time Utilities  
Dependency Injection

Home » javax.servlet » jstl



## JSTL

JSTL

License	CDDL GPL 2.0
Categories	Java Specifications
Tags	servlet javax specs standard
Used By	1,842 artifacts

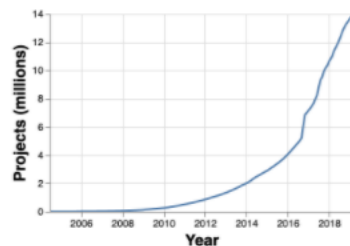
**Note:** This artifact was moved to:

javax.servlet.jsp.jstl » jstl

Central (11)

	Version	Vulnerabilities	Repository	Usages	Date
1.2.x	1.2		Central	1,392	Jun, 2011
	1.1.2		Central	400	Nov, 2005
1.1.x	1.1.1		Central	10	Nov, 2005
	1.1.0		Central	30	Nov, 2005

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Code Analyzers  
Collections  
Configuration Libraries  
Core Utilities

Home » javax.servlet » jstl » 1.2



## JSTL » 1.2

JSTL

License	CDDL GPL 2.0
Categories	Java Specifications
Date	(Jun 23, 2011)
Files	<a href="#">pom (356 bytes)</a> <a href="#">jar (404 KB)</a> <a href="#">View All</a>
Repositories	Central EBIPublic OneBusAway Pub Redhat GA WSO2 Dist
Used By	1,842 artifacts

Maven

Gradle

Gradle (Short)

Gradle (Kotlin)

SBT

Ivy

Grape

Leiningen

Buildr

```
<!-- https://mvnrepository.com/artifact/javax.servlet/jstl -->
<dependency>
  <groupId>javax.servlet</groupId>
  <artifactId>jstl</artifactId>
  <version>1.2</version>
</dependency>
```

☒ Include comment with link to declaration

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Insert title here

/e/index\_taglib.jsp

jstl을 이용한 기본 출력

변수cVal에 저장된값:

I love you~!!!

index\_taglib.jsp

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>Insert title here</title>
8 </head>
9 <body>
10
11 <div>
12 <!-- jstl 파일을 다운받아야 사용가능.
13      https://mvnrepository.com/ -->
14 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix = "c"%>
15
16 <p>
17   <c:out value="jstl을 이용한 기본 출력"/>
18 </p>
19
20 <p>
21   <c:set var="cVal" value="I love you~!!!"></c:set>
22   변수cVal에 저장된값: <h3 style="color:orange;">${cVal}</h3>
23 </p>
24 </div>
25
26 </body>
27 </html>
```