JEE Web Technologies Comparison

Absolutely! Here's a detailed comparison between **JSP** and **JSTL**, now with **real examples** to help you visualize the differences clearly:

VS JSP vs JSTL – With Examples

Feature	JSP	JSTL
Purpose	Build structure/content, allows Java code	Perform logic using tags (cleaner, no Java)
Туре	View templating	Tag library inside JSP
Syntax	Uses HTML + can embed Java	Uses tag-based XML-like syntax
Usage	HTML layout + can contain loops/logic (not ideal)	Conditions, loops, formatting, etc.
Maintainability	Can be messy if it has lots of Java code	Cleaner and easier to read

1. Display Data (Simple)

✓ JSP:

```
<%
    String name = "Alice";
    out.print("Hello, " + name);
%>
```

✓ JSTL:

```
jsp

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<c:set var="name" value="Alice"/>
Hello, ${name}
```

JSTL + EL is much cleaner than using `out.print`.

• 2. Conditional Display (if-else)

X JSP:

```
You are a minor.
%
  }
%>
```

✓ JSTL:

JSTL keeps logic out of Java, more readable and easier to maintain.

3. Loop Through List (for-each)

X JSP:

✓ JSTL:

(Assume the list `items` is already set as a request attribute by a servlet)

[2] JSTL `forEach` is declarative and avoids cluttered Java syntax in JSP.

4. Formatting (e.g., numbers or dates)

X JSP:



```
c%
    double price = 12345.678;
    java.text.DecimalFormat df = new java.text.DecimalFormat("#,###.00");
%>
Price: <%= df.format(price) %>
```

✓ JSTL:

```
jsp

<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<fmt:formatNumber value="12345.678" type="number" pattern="#,###.00"/>
```

JSTL `fmt` tag handles formatting without manual Java code.

Summary Table with Examples:

Aspect	JSP Example	JSTL Equivalent
Print value	`<%= name %>`	`\${name}`
Set variable	`<% String x = "Hi"; %>`	` <c:set value="Hi" var="x"></c:set> `
If condition	`if(age > 18)`	` <c:if test="\${age > 18}">`</c:if>
Loop	`for(String x : list)`	<pre>`<c:foreach items="\${list}" var="x">`</c:foreach></pre>
Format number	`DecimalFormat df =`	` <fmt:formatnumber></fmt:formatnumber> `

Would you like me to generate a mini sample project using Servlets + JSP + JSTL to demonstrate all of this in a working structure?