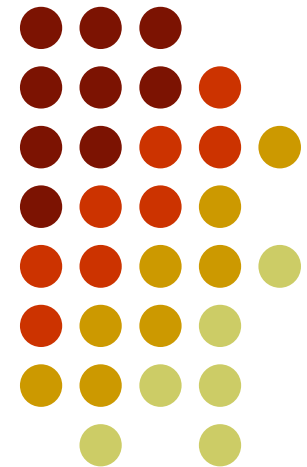


Java Server Pages Intro

By Orlin Genchev



Outline



- **Reminder**
 - Java, Tomcat, Java Servlets
- **Eclipse IDE**
- **Java Server Pages (JSP) Basics**
- **First JSP page**
- **Custom Tags**

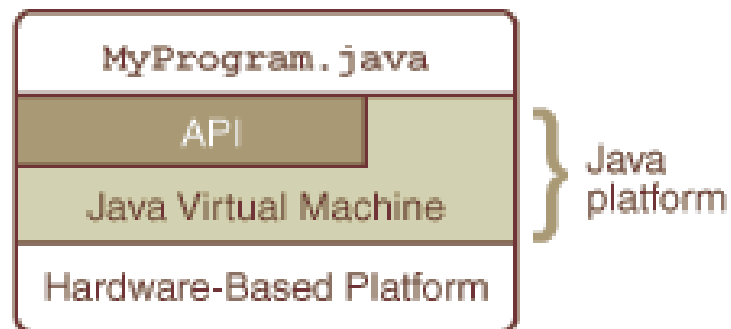


Reminder - Java

- Java Technology


- Object oriented, Multi-platform
- Setup
 - JDK (J2SDK), Classpath  , Eclipse IDE

- Platform





Reminder - Tomcat

- Tomcat
 - Web server – open source
 - Servlet Container
 - Mapping
 - File Structure 






Reminder - Servlets

- Java Classes generate HTML
- Efficient
- Convenient
 - Headers
 - Cookies
 - Sessions
- Portable 

Eclipse IDE



- Why choose this IDE?
 - Open-source
 - Customizable
 - Popular = more information on Google!
- Installation – unzip
- Setup
- Servlet Project 

Recap



- Reminder
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Java Server Pages (JSP)



- What is JSP?
 - HTML with embedded Java
 - Servlet in the back
 - Speed issue
 - Dynamic behavior
 - Java on the server, HTML on the client

JSP Syntax



- Basic JSP tags

Comment	<code><%-- comment --%></code>	Comments in JSP file, but not in resultant document
Declaration	<code><%! ... %></code>	Declares methods or variables
Expression	<code><%= ... %></code>	Executes the expression in tags
Scriptlet	<code><% ... %></code>	Defines a code fragment

JSP Example



```
1
2 <HTML>
3     <HEAD><TITLE>JSP Test</TITLE></HEAD>
4     <BODY BGCOLOR="#FDF5E6">
5         <H1>JSP Test</H1>
6         Time: <%= new java.util.Date() %>
7     </BODY>
8 </HTML>
```

JSP and ASP



```
1
2 <HTML>
3     <HEAD><TITLE>JSP Test</TITLE></HEAD>
4     <BODY BGCOLOR="#FDF5E6">
5         <H1>JSP Test</H1>
6         Time: <%= new java.util.Date() %>
7     </BODY>
8 </HTML>
```

```
1
2 <HTML>
3     <HEAD><TITLE>ASP Test</TITLE></HEAD>
4     <BODY BGCOLOR="#FDF5E6">
5         <H1>ASP Test</H1>
6         Time: <%= Now() %>
7     </BODY>
8 </HTML>
```

JSP and PHP



```
1
2 <HTML>
3     <HEAD><TITLE>JSP Test</TITLE></HEAD>
4     <BODY BGCOLOR="#FDF5E6">
5         <H1>JSP Test</H1>
6         Time: <%= new java.util.Date() %>
7     </BODY>
8 </HTML>
```

```
1
2 <HTML>
3     <HEAD><TITLE>PHP Test</TITLE></HEAD>
4     <BODY BGCOLOR="#FDF5E6">
5         <H1>PHP Test</H1>
6         Time: <?php echo date("1, F d, Y h:i", time());?>
7     </BODY>
8 </HTML>
```


Custom Tags



- What is a custom tag?
 - A function supported by the server
 - `<tt:insert />`
 - `<head/>`
- How does it work?
- Why use custom tags?



Custom Tags

- How is a custom tag created?
 - Tag handler class
 - Tag library descriptor
 - XML – Extensible Markup Language
 - Easy sharing of data across different systems
 - Jsp page
 - Demo 

Wrap-Up



- Reminder
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References

- Printed

- **Marty Hall, Larry Brown. Core Servlets and Java Server Pages, Volume 1. 2004 (AUBG library)**

- Online

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- <http://java.sun.com>
- <http://tomcat.apache.org>
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Thank you!

Questions and Answers?