

## CSE 403

### The Mythical Servlet

## Goals

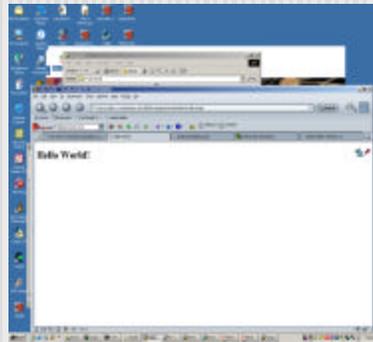
- Introduce basic servlet terminology
- Formally introduce homework 2
- Walkthrough of build & deployment
- Group discussion of *MMM*

## What is a Servlet?

- Server-side Java Program
- Equivalent to a CGI app
- Efficient
- Portable
- Powerful
- Stand-alone or extension
  - We're using Tomcat on [cubist.cs.washington.edu](http://cubist.cs.washington.edu)



## Demo Example



## Where do I find this stuff?

```
/*For generic , protocol independent
servlet functionality*/
import javax.servlet.*;

/*For servlets that will use the http
protocol (WWW Based)*/
import javax.servlet.http.*;
```

Tutorial @

<http://java.sun.com/webservices/docs/1.0/tutorial/doc/Servlets.html>

API @

[http://java.sun.com/j2ee/sdk\\_1.3/techdocs/api/javax/servlet/package-summary.html](http://java.sun.com/j2ee/sdk_1.3/techdocs/api/javax/servlet/package-summary.html)

## GenericServlet

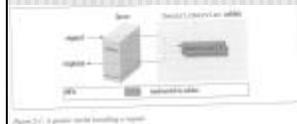
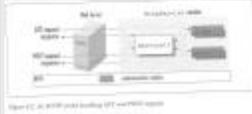


Image from Java Servlet Programming by Jason Hunter

- Protocol Independent
- Override `service()` when extended
- Must write one's own means of handling requests

## HttpServlet

- Extends `GenericServlet()`
- Override `doGet(...)` & `doPost(...)`
- Already understands http
- Majority of servlets extend



## HttpServlet Skeleton

```
import javax.servlet.*;
import javax.servlet.http.*;

public class ServletSkeleton extends HttpServlet {
    public void doGet(HttpServletRequest req,
        HttpServletResponse res)
        throws ServletException, IOException {}

    public void doPost(HttpServletRequest req,
        HttpServletResponse res)
        throws ServletException, IOException {}
}
```

## GET vs POST

### GET

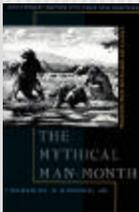
- retrieving information
- html/images
- parameters listed in URL

### POST

- send information
- uploads/forms
- parameters hidden within header

## HW2 Prep Walkthrough

## Did you do your reading?



What project inspired Brooks to write this book?

## Programming :) / :(

What joys does computer programming have?

What woes?

## Project Failure

What are some common reasons for project failure?

What is Brooks'?

All programmers are optimists:

"All will go well"

## Scheduling

1/3 design

1/6 coding

1/4 component testing

1/4 system testing

## Brooks' Law



**Adding manpower to a late software project will make it later.**

Why?

## The Surgeon Model

