

CSE 403

The Mythical Servlet

Goals

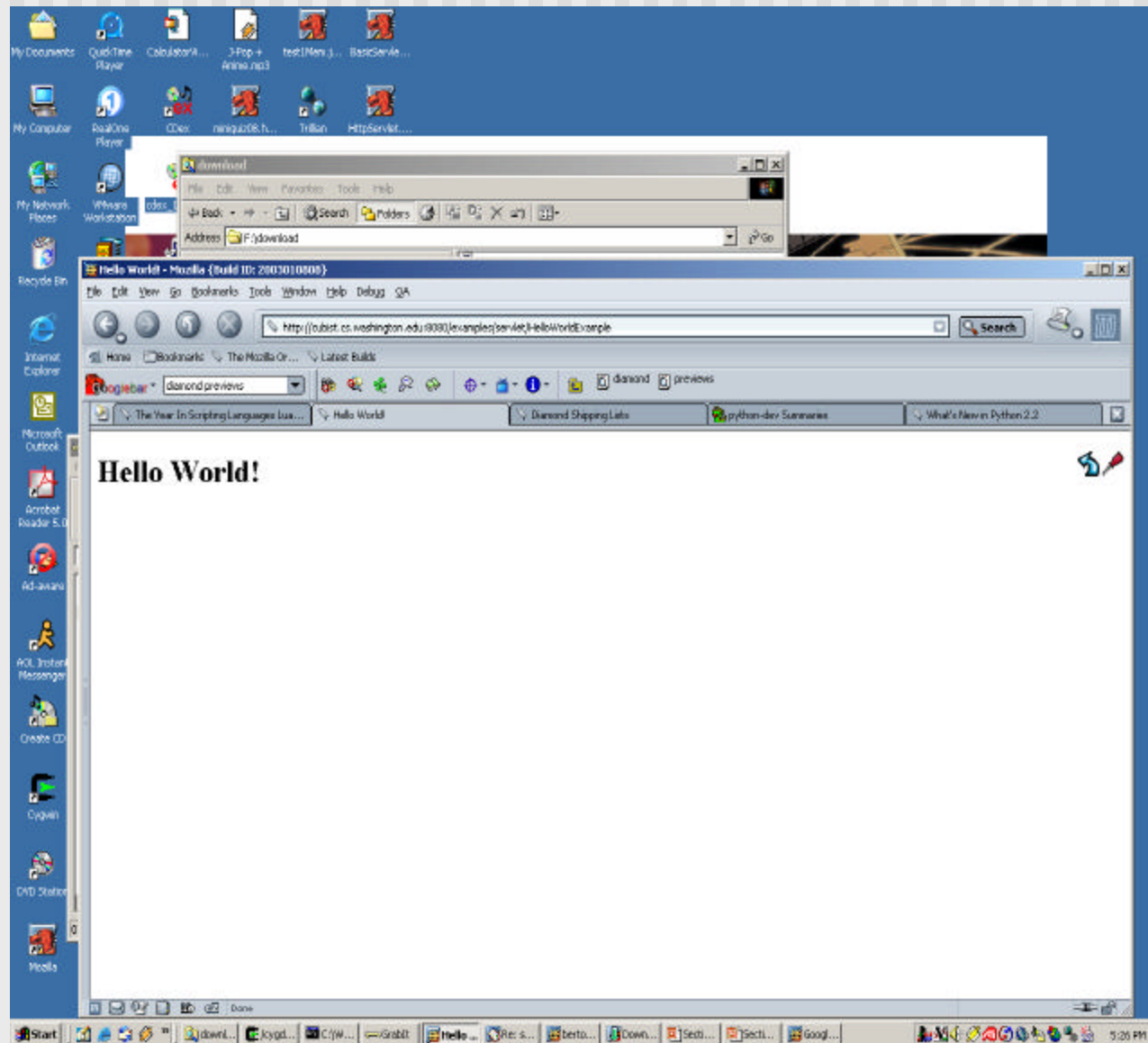
- Introduce basic servlet terminology
- Formally introduce homework 2
- Walkthrough of build & deployment
- Group discussion of *MMM*

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



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

GenericServlet

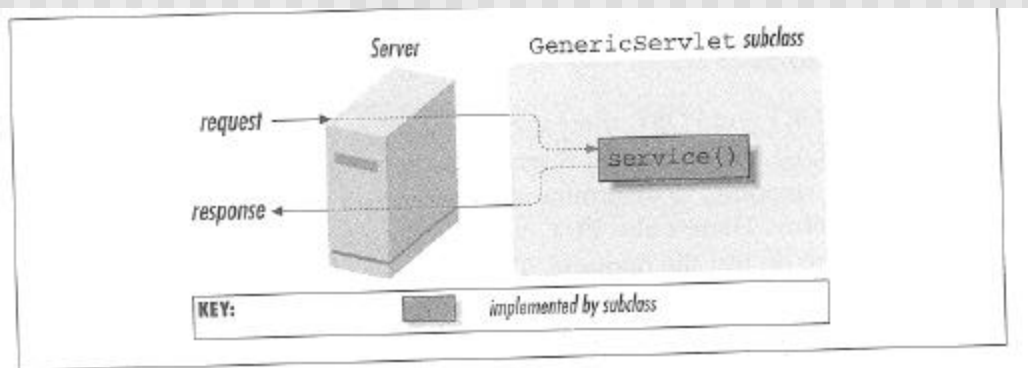


Figure 2-1. A generic servlet handling a request

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

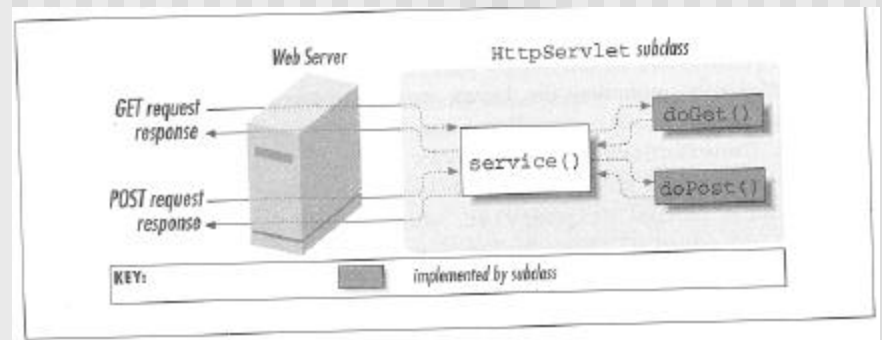


Figure 2-2. An HTTP servlet handling GET and POST requests

Image from *Java Servlet Programming* by Jason Hunter

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

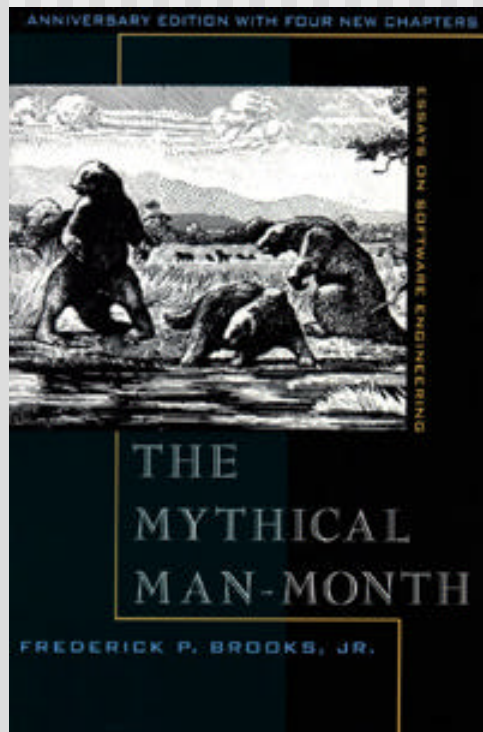
- retrieving information
- html/images
- parameters listed in URL

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

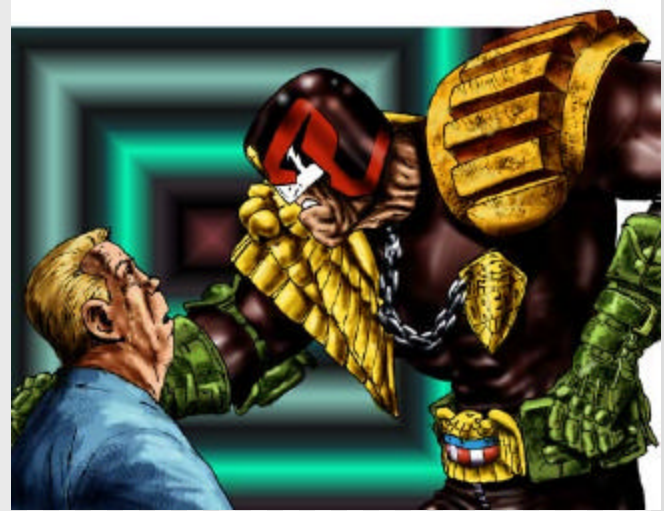
1/3 design

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

