



# Java Servlets

## - Learn Web Applications with Java

# Java Servlets - Filters

Presented by



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# Servlet Filters

Filters let us to intercept the request.

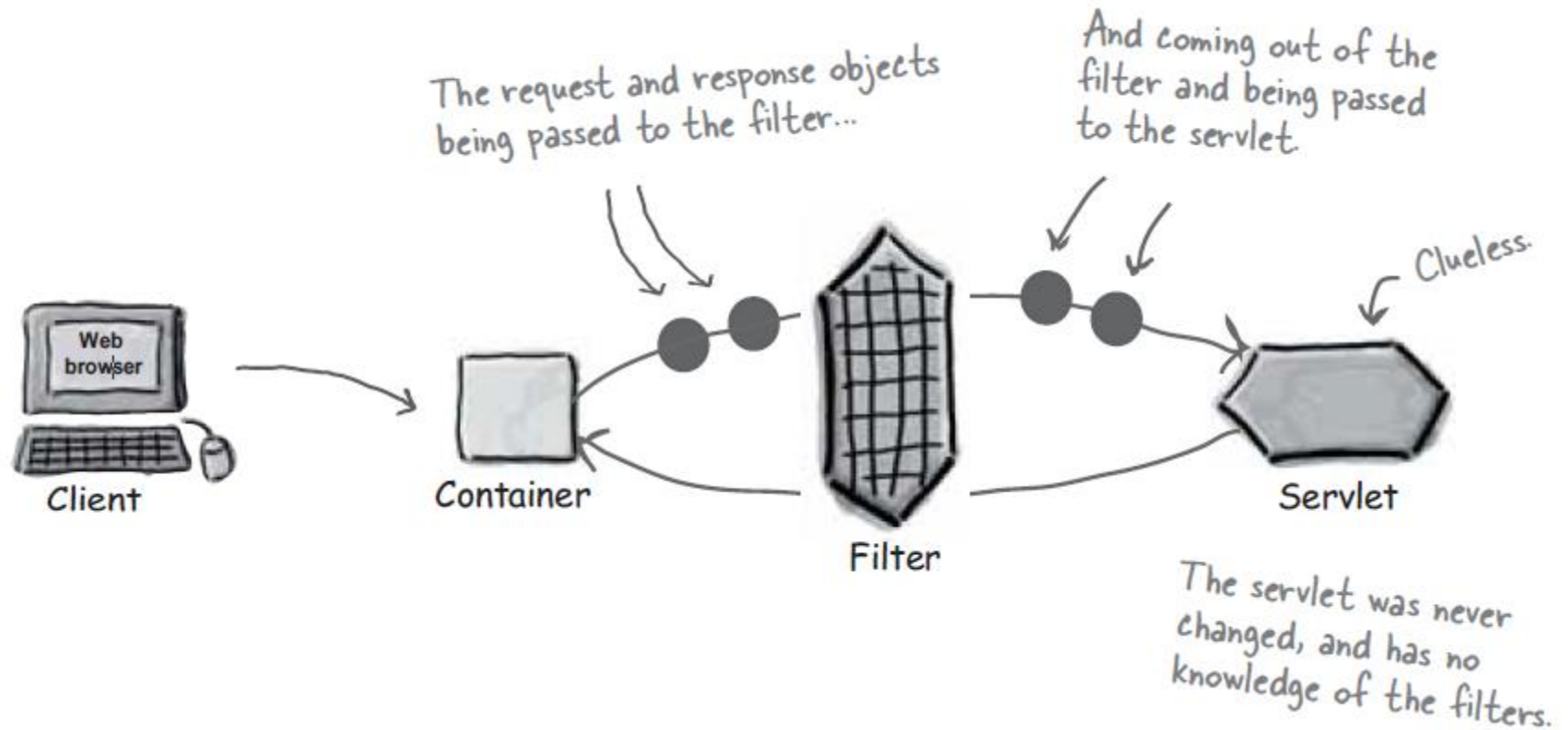
Dynamic components, usually associated with servlets.

They intercepts the requests before sending to a servlet.

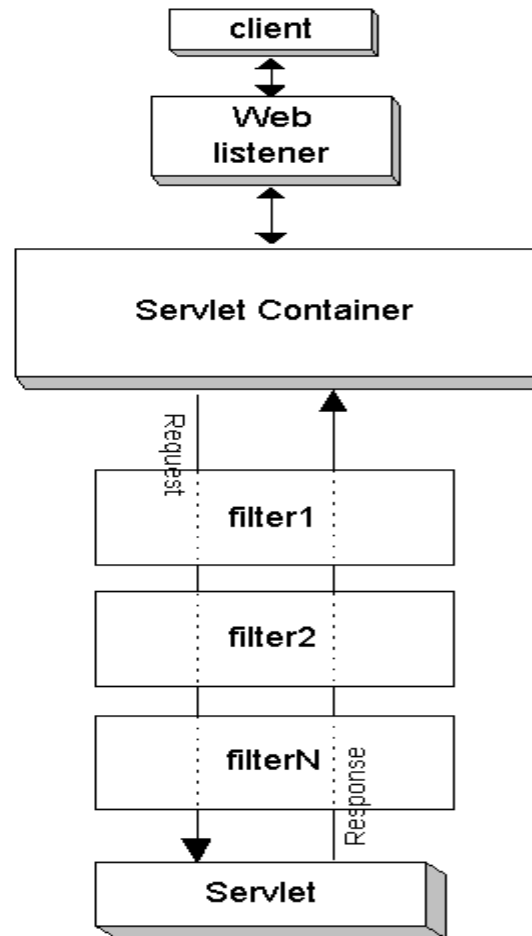
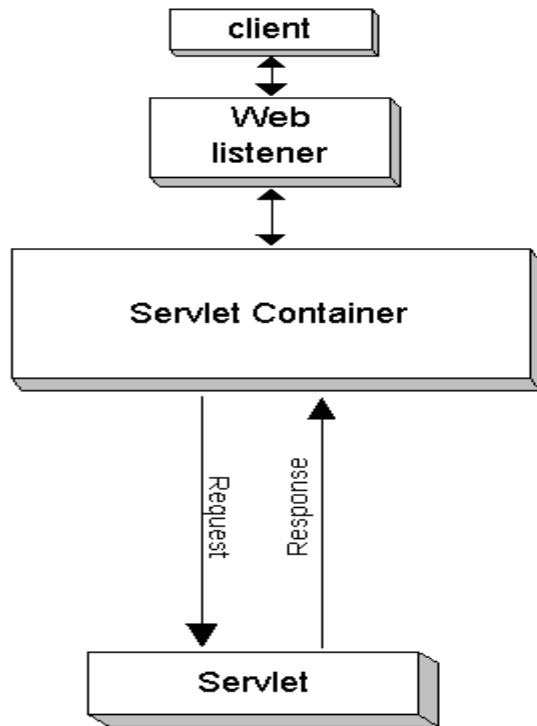
The container decides when to invoke the filters , based on the declarations  
In the Deployment Descriptor.



# Servlets Filters



# Servlets Filters



**\*\*Example**



# Filter life cycle

## The Container manages their lifecycle

Just like servlets, filters have a lifecycle. Like servlets, they have **init()** and **destroy()** methods. Similar to a servlet's **doGet()/doPost()** method, filters have a **doFilter()** method.



# Example - Filter

```
public class HelloWorldFilter implements Filter{
```

```
    public void init(FilterConfig fltrCnfg) throws ServletException {}
```

```
    public void doFilter(ServletRequest req, ServletResponse resp,  
        FilterChain chain) throws IOException, ServletException {
```

```
        PrintWriter out=resp.getWriter();
```

```
        //Before Servlet
```

```
        out.print("I Filtered the request...!");
```

```
        // Navigates to servlet
```

```
        chain.doFilter(req, resp); //sends request to next resource, i.e, servlet
```

```
        //After servlet
```

```
        out.print("That's the power of filters..!");
```

```
    }
```



# Example - Servlet

```
public class HelloWorldServlet extends HttpServlet {  
    public void doGet(HttpServletRequest request, HttpServletResponse response)  
        throws ServletException, IOException {  
  
        response.setContentType("text/html");  
        PrintWriter out = response.getWriter();  
  
        out.print("<br>Welcome to the world of Servlet Filters..!<br>");  
  
    }  
}
```

**\*\* Absolutely no clue about the filter**



# Deployment Descriptor

```
<filter>
```

```
  <filter-name>HelloWorldFilter</filter-name>
```

```
  <filter-class>HelloWorldFilter</filter-class>
```

```
</filter>
```

```
<filter-mapping>
```

```
  <filter-name>HelloWorldFilter</filter-name>
```

```
  <url-pattern>/HelloWorldServlet</url-pattern>
```

```
</filter-mapping>
```





