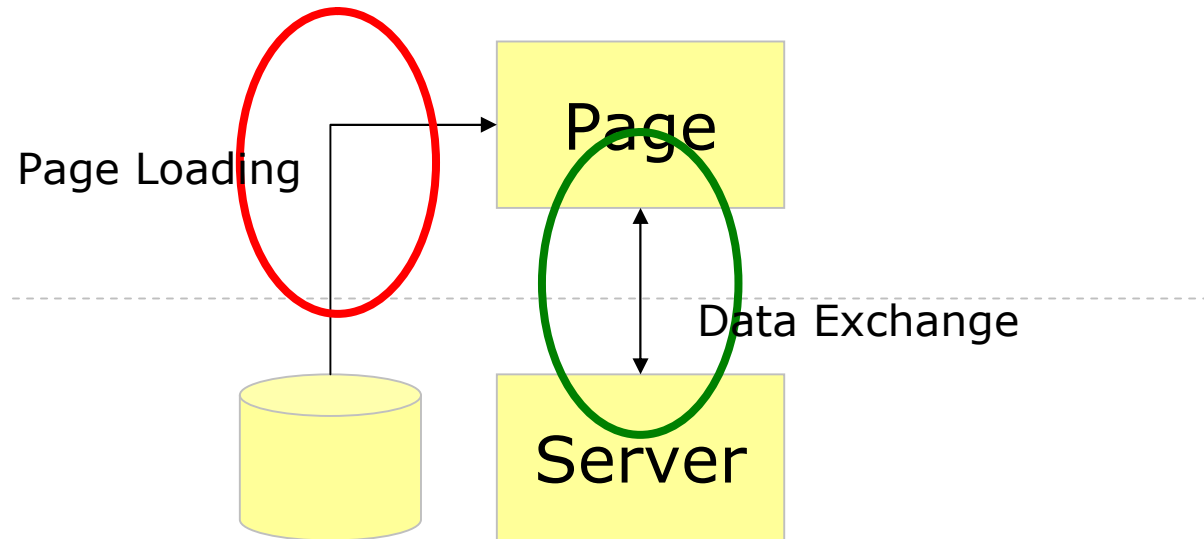
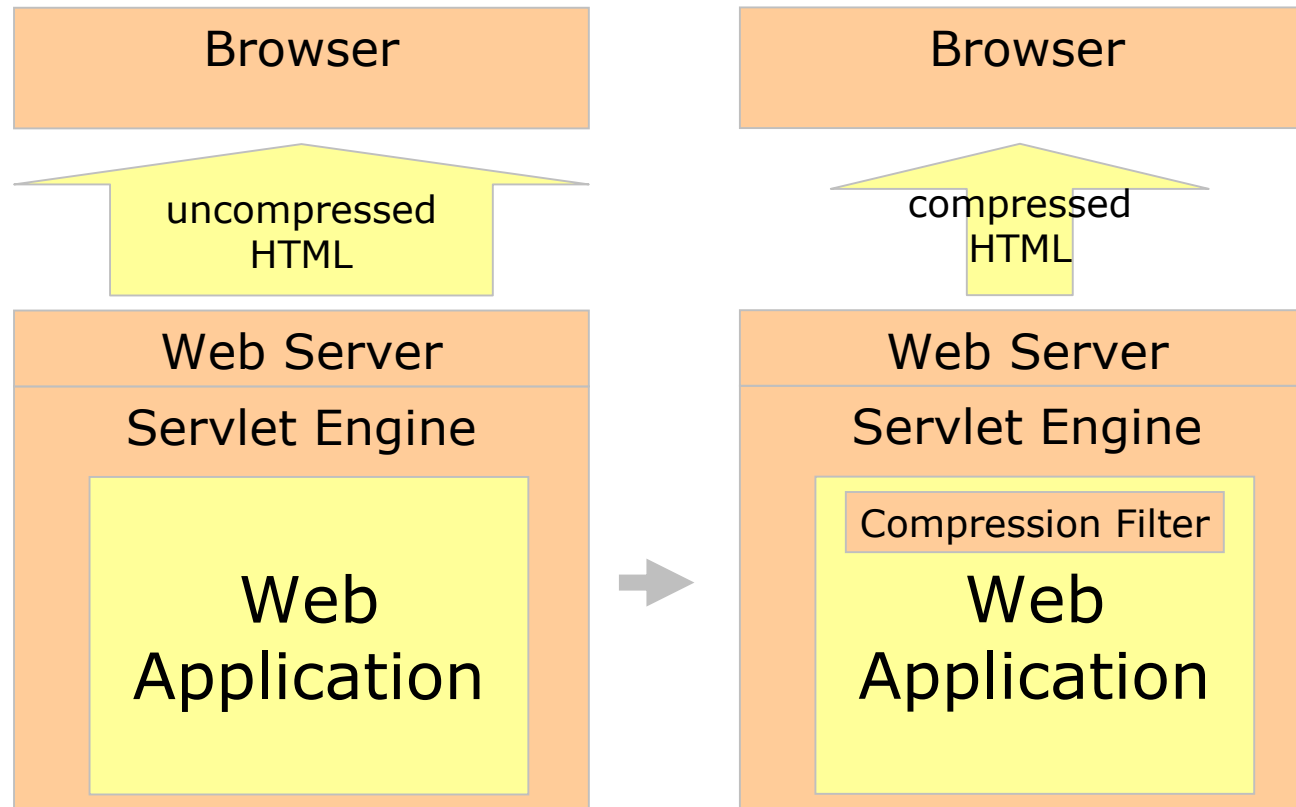


Adding Compression Filter

- Casabac pages are loaded from the server into the browser client – and then themselves exchange their content data through hidden frame communication with the server.



- While the „Data Exchange“ communication by default is compressed the „Page Loading“ communication is not compressed.
- This documentation shows how to also compress („zip“) the „Page Loading“ communication.



The generic filter framework that is part of the servlet 2.3 definition can be easily used to compress requests against one web application.

- Check prerequisite: you require a servlet engine supporting servlet standard 2.3
 - e.g. Tomcat ≥ 4
 - NOT: Tomcat 3.x or Websphere 4.x

- Download jspbook.jar from:

<http://www.onjava.com/onjava/2003/11/19/examples/jspbook.jar>

- Copy jspbook.jar into the WEB-INF/lib-directory of your web application

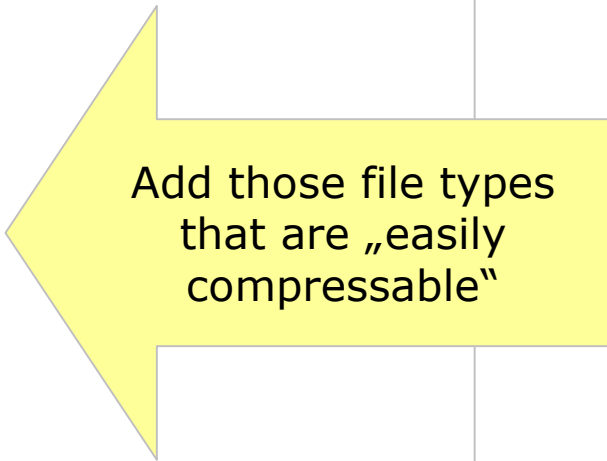
e.g. /tomcat/webapps/CasabacGUIServer/WEB-INF/lib/jspbook.jar

- Modify web.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/j2ee/dtds/web-app_2_3.dtd">
<web-app id="CasabacGUI Server">

  <filter>
    <filter-name>Compress</filter-name>
    <filter-class>com.jspbook.GZIPFilter</filter-class>
  </filter>
  <filter-mapping>
    <filter-name>Compress</filter-name>
    <url-pattern>*.jsp</url-pattern>
  </filter-mapping>
  <filter-mapping>
    <filter-name>Compress</filter-name>
    <url-pattern>*.html</url-pattern>
  </filter-mapping>
  <filter-mapping>
    <filter-name>Compress</filter-name>
    <url-pattern>*.bmp</url-pattern>
  </filter-mapping>
  <filter-mapping>
    <filter-name>Compress</filter-name>
    <url-pattern>*.js</url-pattern>
  </filter-mapping>

  <servlet id="Connector">
    <servlet-name>Connector</servlet-name>
    <servlet-class>com.casabac.server.Connector</servlet-class>
```



Add those file types
that are „easily
compressable“

- Files that should be compressed
 - HTML files
 - JS files
(Javascript libraries, Casabac uses this js-files in order to have shared Javascript libraries on client side)
 - BMP files (bitmaps)
 - PDF files
 - TXT files
- Files that should not be compressed
 - JPEG files
 - GIF files
 - ...and all files containing already content that is already compressed

Comparison

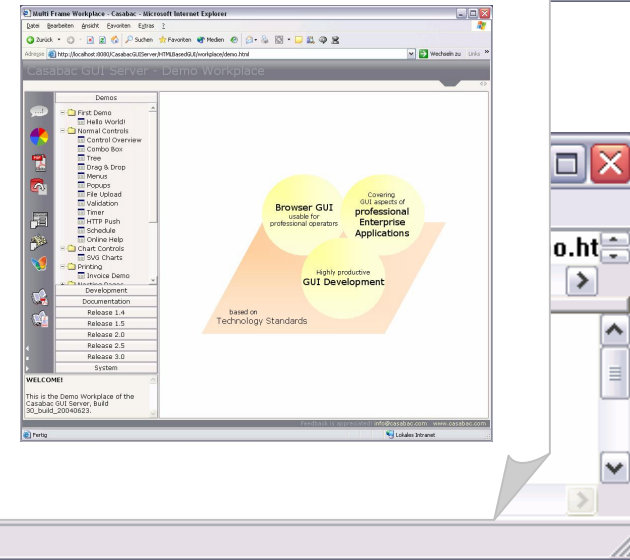
Source IP	Time	Status	Bytes In	Bytes Out
127.0.0.1	21:14...		23678	306438
127.0.0.1	21:14...		21077	99236
127.0.0.1	21:14...		0	0
127.0.0.1	21:14...	connected	455	1948
127.0.0.1	21:14...	connected	456	1122

appr. 400 kBytes
without compression

Source IP	Time	Status	Bytes In	Bytes Out
127.0.0.1	21:13...	connected	24487	139356
127.0.0.1	21:13...	connected	23388	88786

appr. 230 kBytes
with compression

Scenario:
Starting Casabac Demo
Workplace from Browser with
cleared cache



- Using filters inside a web-application is only one way to compress data being transferred by the http protocol!
- Other ways are
 - Using Apache web server „in front of Tomcat“ and letting Apache do the compression
- The set up of compression modules needs to be in synch with your general web infrastructure!

- <http://www.onjava.com/lpt/a/4361>

