

ASP Objects

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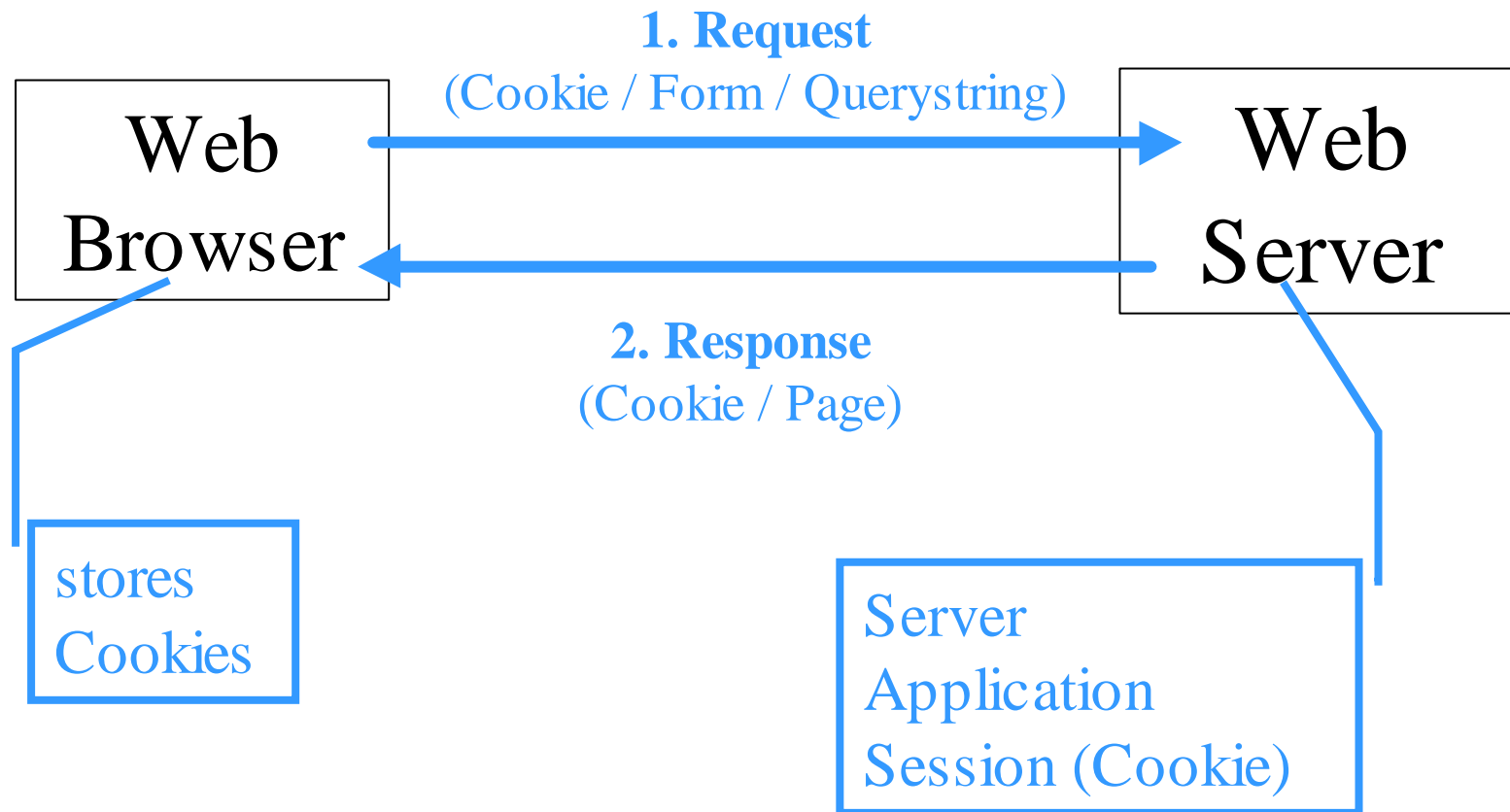
Contents

- Simple interaction (request/response)
- Cookies
- Forms, QueryStrings
- Other ASP objects

ASP Objects

- Request (info from the Web visitor)
- Response (output of the ASP page)
- Server (utility functions: encoding...)
- Application
- Session (persistent storage of a series of requests by the same visitor)

Simple Interaction (Request/Response)



Using Cookies

- HTTP is a stateless protocol
- Little information can be stored at the client side (Cookies). The Browser sends this info. to the server with every request

- Set a Cookie

```
Response.Cookies("greeting") = "Howdy"
```

- Get a Cookie

```
gotGreetingC = Request.Cookies(" greeting ")
```

Using Forms

- The Viewer can transmit data using HTML Forms (POST Method) in Web pages

Example: form.asp

```
<html><head>Example Form</head><body>  
<form method="Post" action="form.asp">  
<p>  
<input type="text" name="box1"  
  value="<%UCase(Request.Form("box1"))%>">  
  
<input type="Submit" name="button1"  
  value="Submit">  
</p>  
</form></body></html>
```

Using QueryStrings

- Visitors may transfer data using forms with the GET-Method or encoded in the URL e.g.
`http://www.test.org/test.asp?fn=Michael
&sn=Hahsler`

Example:

```
For Each name In Request.QueryString
    Response.Write Request.QueryString(name) &_
        "<br>" & vbCrLf
Next
```

Using ServerVariables

```
<table border="1" cellpadding="3">
  <tr><th>Key</th><th>Value</th></tr>
<%
For Each key In Request.ServerVariables
  val=Request.ServerVariables(key)
  Response.Write "<tr>" & vbCrLf &_
    "  <td>"& key &"</td>"& vbCrLf &_
    "  <td>"& val &"&nbsp;&"</td>"& vbCrLf&_
    "</tr>" & vbCrLf
Next
  %>
</table>
```


Response Object

- With the Response Object it is possible to:
 - Change the content type
 - buffer the output
 - redirect the browser
 - set additional header fields...

- Redirect:

```
Response.Redirect "/default.html"
```

Server Object

- **Methods**
 - CreateObject
 - MapPath
 - HTMLEncode (replaces special characters e.g. & -> &)
 - URLEncode (escapes for URL use)
- **Properties**
 - ScriptTimeout (in seconds)

Application Object

- Space to store data for all ASP files within one folder tree

```
Application.Contents ("mot") = "Be happy!";
```

```
Application.Lock
```

```
Application("hits") = Application("hits")+1
```

```
Application.Unlock
```

Session Object

- The first time a visitor requests a ASP page, the server creates a persistent Session object (20 minutes timeout). The Session object provides storage for data about a visitor.
- Properties:
 - Contents
 - SessionID
 - Timeout