

Active Server Pages

(ASP)



Content

- Internet Server Application Programming Interface
- ASP Objects Model
- Properties, Collections, Methods, Events
- ActiveX Data Objects
- Examples



Sources

Weissinger A. Keyton. *Active Server Pages v kostce. Pohotov referenn prruka*. 1. vyd. Praha : Computer Press, 1999. 391 s. ISBN 80-7226-199-1

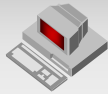
Plech, V. *Databze na Webu*. 1. vyd. Praha : GComp, 2000. 244 s. ISBN 80-85649-82-9.

<http://www.activeserverpages.cz/>

<http://www.asp.cz/>



Internet Server Application Programming Interface



Web browser

1. Connect to a Web server →
2. OK you're connected ←
3. I want this ASP file →
4. Execute
5. Results or error information ←
6. Disconnect me →



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Objects Model

- **Objects**
 - Application
 - ObjectContext
 - Request
 - Response
 - Server
 - Session
- **Directives**



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Application

- **Collections**
 - Contents (Objects, Variables)
 - StaticObject tag <OBJECT>
- **Methods**
 - Lock
 - Unlock
- **Events**
 - OnStart
 - OnEnd

(Defined in GLOBAL.ASA File)



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ObjectContext

- **Methods**

- SetComplete
- SetAbort

- **Events**

- OnTransactionCommit
- OnTransactionAbort



Request

- **Properties**

- TotalBytes

- **Collections**

- ClientCertificate
- Cookies
- Form (method POST)
- QueryString (method GET)
- ServerVariables

stranka.asp?par1=data1&par2=data2a&par2=data2b&...

- **Methods**

- BinaryRead



Response

- **Properties**

- Buffer (False/True for Flush)
- CacheControl (Public/Private)
- Charset („ISO-LATIN 1“, ...)
- ContentType („text/plain“, ...)
- Expires
- ExpiresAbsolute
- IsClientConnected
- PICS (for NetNanny, ...)
- Status („1xx“, ...)



Response (2)

- **Collections**

- Cookies

- **Methods**

- AddHeader
- AppendToLog
- BinaryWrite
- Clear
- End
- Flush
- Redirect
- Write



Server

- **Properties**

- ScriptTimeout

- **Methods**

- CreateObject (on server)
- HTMLEncode
- MapPath
- URLEncode



Session

- **Properties**

- CodePage
- LCID
- SessionID
- Timeout

- **Collections**

- Contents
- StaticObject

- **Methods**

- Abandon

- **Events**

- Session_OnEnd
- Session_OnStart



Directives

<%@ DIRECTIVE = Value%>

- **CODEPAGE** (1252, ...)
- **ENABLESESSIONSTATE**
(True - store Session information)
- **LANGUAGE** (VBScript, ...)
- **LCID** (Date/Time format)
- **TRANSACTION** ("Required", "Requires_New", "Supported", "Not_Supported")



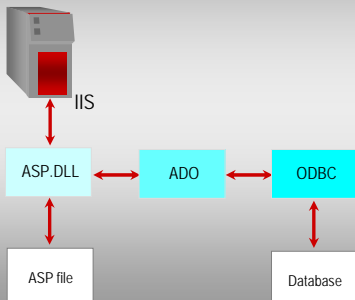
Directives (2)

<!-- #directive Parameter -->

- **#config**
- **#echo** (Request.ServerVariables)
- **#exec**
- **#lastmod**
- **#size**
- **#include PathType=FileName**



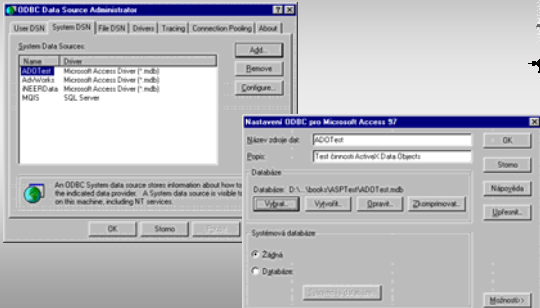
ActiveX Data Objects



Open DataBase Connectivity



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Example 1-1



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```
<HTML>
<HEAD>
  <META HTTP-EQUIV="Content-Type"
    CONTENT="text/html; charset=windows-1250">
  <TITLE>Hledání bloku programu SIPRO</TITLE>
</HEAD>
<BODY BGCOLOR="#FFFFFF"
  background="images/podklad.gif">
<%
  Session.timeout = 1
  If IsObject(Session("Bloky programu SIPRO_conn")) Then
    Set conn = Session("Bloky programu SIPRO_conn")
  Else
    Set conn = Server.CreateObject("ADODB.Connection")
    conn.open "Bloky programu SIPRO","Admin",""
    Set Session("Bloky programu SIPRO_conn") = conn
  End If
  %>
```

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Example 1- 2



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```
<%
  sql = "SELECT * FROM [TBloky] "
  Set rs = Server.CreateObject("ADODB.Recordset")
  rs.Open sql, conn, 3, 3
  %>
<FORM METHOD="GET" ACTION="F2.ASP">
  Výběr bloku podle názvu: <SELECT NAME="[Typ]">
<%
  On Error Resume Next
  do while Not rs.eof
  %>
  <OPTION VALUE="&rs.Fields("Název_bloku").Value%">
  <&rs.Fields("Název_bloku").Value%>
<%
  rs.MoveNext
  loop%>
</SELECT>
```

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Example 1-3

```
<INPUT TYPE="Submit" VALUE="Spustit dotaz">
</FORM>

<HR>
<P align=center><A href="Welcome.htm">Zpět na hlavní
stránku</A>
</BODY>
</HTML>
```



Example 2-1

```
<HTML>
<HEAD>
  <META HTTP-EQUIV="Content-Type"
  CONTENT="text/html;charset=windows-1250">
  <TITLE>Blok programu SIPRO</TITLE>
</HEAD>
<BODY BGCOLOR="#FFFFFF" background="images/podklad.gif">
<%
Session.timeout = 1
If IsObject(Session("Bloky programu SIPRO_conn")) Then
  Set conn = Session("Bloky programu SIPRO_conn")
Else
  Set conn = Server.CreateObject("ADODB.Connection")
  conn.open "Bloky programu SIPRO","Admin",""
  Set Session("Bloky programu SIPRO_conn") = conn
End If
%>
```



Example 2-2

```
<%
sql = "SELECT * FROM [TBloky] WHERE
(((TBloky.Název_bloku)=" & Request.QueryString("[Typ]"
& "''))"
Set rs = Server.CreateObject("ADODB.Recordset")
rs.Open sql, conn, 3, 3
%>

<H1 align=center>Popis bloku programu SIPRO</H1>
<%
On Error Resume Next
IF rs.eof then
%>
<HR><H2>Nebyl nalezen požadovaný blok:
<%=Request.QueryString("[Typ]")%></H2>
```



Example 2-3

```
<%
else
rs.MoveFirst
do while Not rs.eof
%>
<H2>Název bloku: <%=rs.Fields("Název_bloku").Value%></H2>
<P><IMG src="<%=rs.Fields("Blok_Image").Value%>">
<TABLE BORDER=0>
<TR><TD WALIGN="TOP"><B>Popis bloku:</B></TD><TD
WALIGN="TOP"> <%=rs.Fields("Popis").Value%></TD></TR>
<TR><TD WALIGN="TOP"><B>Funkce:</B></TD><TD WALIGN="TOP">
<%=rs.Fields("Funkce").Value%></TD></TR>
<TR><TD WALIGN="TOP"><B>Parametry:</B></TD><TD
WALIGN="TOP"> <%=rs.Fields("Parametry").Value%></TD></TR>
<TR><TD WALIGN="TOP"><B>Použití:</B></TD><TD WALIGN="TOP">
<%=rs.Fields("Použití").Value%></TD></TR>
</TABLE>
```

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Example 2-4

```
<%If not rs.Fields("Char_Image").Value="" then%>
<P><B>Schéma:</B> <IMG
src="<%=Server.HtmlEncode(rs.Fields("Char_Image").Value)%>"
">
<%else%>
<P>Blok nemá schéma.
<%End if%>
<%
rs.MoveNext
loop
End if
%>
<HR>
<P align=center><A href="F2start.asp">Jiný typ bloku</A> |
<A href="Welcome.htm">Zpět na hlavní stránku</A>
</BODY>
</HTML>
```

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Professional Home Pages

(PHP)

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Sources

<http://www.php.net/manual/>

<http://www.pcsvet.cz/php/>

- Rasmus Lerdorf, 1994 (Personal Home Page Tools)



Insert to page

```
<? echo "Hello world!" ?>
```

```
<?php echo "Hello people!" ?>
```

```
<script language="php">  
echo "Hi, how are you? I am fine!";  
</script>
```



... to be continued