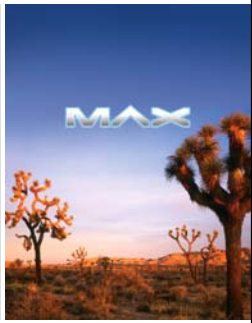



MAX 2006 Beyond Boundaries


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Leveraging The ColdFusion
Application Framework
WD201W
Oct 2006



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Past – Application.cfm

- Loaded before any ColdFusion page
- Consider it an automatic include
- Initialize global variables
- CF looks in current, then parent folders
- Uses <cfapplication> to define application

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Introduction


- Trilemetry Managing Partner
- Worked with ColdFusion since version 1.5
- Certified Adobe Trainer
- Certified Advanced CFMX Developer
- Created applications for the Getting Started Experience in CFMX7
- Co-writing Adobe curriculum for Flex
- annette@trilemetry.com



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Past – OnRequestEnd.cfm


- Loaded at the end of a CFM page
- Must be in same directory as Application.cfm page
- Will not execute if Application.cfm page does not exist
- Will not execute if cfabort, cfexit or error on calling page.
- Consider it an automatic include

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Overview

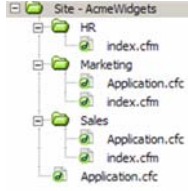
- The Old Days
- Introduction of Application.cfc
- ApplicationStart/End
- onSessionStart/End
- onRequestStart/End
- onRequest
- onError
- Using Inheritance
- Things to Consider




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Current – Application.cfc

- Same scoping as Application.cfm
- Located the same as Application.cfm
- More formalized structure
- Code executes based on pre-defined events
- Additional capabilities
 - Inheritance
 - Minimized locking
- Takes priority over Application.cfm
- onRequestEnd.cfm will not execute with Application.cfc



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Application.cfc

- Settings
 - Name
 - ApplicationTimeout
 - ClientManagement/ClientStorage/SetClientCookies
 - LoginStorage
 - ScriptProtect (new in CFMX7)
 - SessionManagement/SessionTimeout
 - setDomainCookies
 - <cfsetting> (showdebugoutput, requesttimeout, enablecfoutputonly)
- Use the *this* scope
 - Acts like the Variables scope
 - Makes the variable global to the application

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Application.cfc Methods

- onApplicationStart
- onApplicationEnd
- onSessionStart
- onSessionEnd
- onRequestStart
- onRequestEnd
- onError
- onRequest

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Application.cfc

```

<cfcomponent>
  <cfset this.name = "MAX2006">
  <cfset this.applicationTimeout = createTimeSpan(0,2,0,0)>
  <cfset this.sessionManagement = true>
  <cfset this.sessionTimeout = createTimeSpan(0,0,20,0)>
  <cfsetting enablecfoutputonly = true>
</cfcomponent>

```

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onApplicationStart/End

- Description
 - Runs when application starts and ends (duh).
 - There is no output when the application ends.
 - Initializing Application Variables
 - No need for locking!
 - onApplicationStart returns a Boolean
- Usage
 - Logging
 - Test availability of databases
 - Save data to database
- Skip to example 3...

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Inheritance

- Extends keyword
 - Flexibility to manage your application and subapplications.
 - Set properties and methods at top level application.cfc, then inherit at lower levels.
 - Methods can be overwritten at lower level
- The Super keyword
 - Pointer to the methods in the parent CFC.
 - Use when the current CFC has the same method name as the inherited method from the parent CFC.
- Skip to example 2...

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onRequestStart/End

- Description
 - Runs when request starts and ends (duh).
 - Just like Application.cfm and onRequestEnd.cfm.
 - Variables set in the method do not exist in your page.
 - Variables set in the page do not exist in the method.
 - Use the Request scope to share data.
 - Uses *targetPage* parameter
 - onRequestStart returns a Boolean
- Usage
 - Security
 - Initialize request variables
- Skip to example 4...

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onRequest

- Description
 - Allows specific control over the request.
 - Method does not return a value
 - You must cinclude the file!
 - Must implement onRequestStart and onRequestEnd when using this method
 - Copies methods, variables to Variables.
 - Breaks Flash Remoting and Web Services.
 - Workaround
- Usage
 - Modify/Filter a page request
 - Display page based on specific conditions
- Skip to example 5...

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Things to Consider

- Loading UDFs
- Converting from Application.cfm to Application.cfc

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onSessionStart/End

- Description
 - Runs when session starts and ends (duh).
 - Initialize session variables
 - No need for locking!
 - No output when the session ends.
 - Returns no value
 - Accept two arguments -- SessionScope and ApplicationScope
 - **NOT** run when application ends/server shuts down!
- Usage
 - Logging
 - How long did my session last?
- Skip to example 6...

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Resources

- http://www.adobe.com/support/training/instructor_led_curriculum/advanced_cfm_dev.html
- <http://ray.camdenfamily.com>
- <http://www.macromedia.com/cfusion/knowledgebase/index.cfm?id=9ce734f4>
- http://www.corfield.org/blog/index.cfm?do=blog_entry&entry=C84AF-0E78-FC9F-6975A16624A1E3C1
- ColdFusionMX7 Documentation!

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onError

- Runs when an error occurs (duh).
- Error can not display in
 - onApplicationEnd
 - onSessionEnd
- Does not override try/catch
- onError called with cfabort
 - Work around
- Skip to example 7...

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