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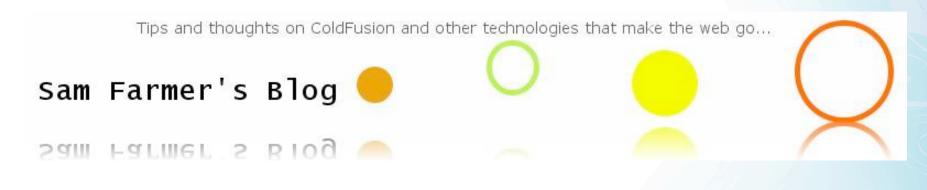
Intro to CFML as a language

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About Me

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Overview

Good to Know
Operators
Data Types
Query
Types of Files



Comments

Three dashes

Never sent to browser



Escaping

"

```
Always double:
    ##
     <cfoutput>Here is a pound sign: ##</cfoutput>
    "
```

<cfset aString = "a quote "" in a string">

cf@united

ColdFusion Starts at 1

Loops, arrays, everything



Setting Variables & Strings

Use cfset

- <cfset variables.myName = "Sam">
- <cfset variables.fullName = variables.myName &
 "Farmer">
- <cfset variables.a = 5>
- <cfset variables.b = (variables.a * 5) + 10>

CF works out the type



To Pound or Not To Pound

Pound Signs Needed:

in cfoutput

passing variables to attributes

<cfoutput>#variables.myName#</cfoutput>

<cfswitch expression="#variables.myName#">

<cfset variables.myNameUpper =
 Ucase(variables.myName)>

CF very forgiving



Operators

<cfif [not | !] a OPERATOR b>

equal	eq	is
not equal	neq	is not
contains		
does not contain		
greater than	gt	
greater than or equal to	gte	ge
less than	It	
less than or equal	Ite	



Cfif

- <cfif variables.myName eq "Sam">
 do something
- <cfelseif variables.myName eq "Fred">
- <cfelse>
 something else
- </cfif>



Variables Scopes

ColdFusion puts variables into scopes
Better performance
Easier debugging



Variable Types & Order of Evaluation

query column names	When looping over a query
var	Set in the var scope, local to the function
thread local	When using cfthread
arguments	Arguments passed into a function
variables	Set and accessed in a cfm or cfc file
thread global	When using cfthread
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Variable Types & Order of Evaluation 2

cgi	Information sent with every request like users IP, browser type, etc
cffile	Variables set when uploading a file
url	Passed in the query string or from get forms
form	From post forms
cookie	From cookies set with cfcookie
client	Client variables allow sharing of user sessions across clustered configs



Always scoped variable types

Available everywhere

Request	Lasts for, and unique to, a request
session	When using session variables, unique to a user
application	Accessed across the whole application, same values for an application
server	Rarely used, some information about the server configuration, same value for a server



Complex Data Types

Structure

Array

List

Query



Structures

```
Everything is a structure!
Like map or associative array
<cfset variables.myStruct =
    {mon="Monday",tue="Tuesday"}>
Key functions:
    StructDelete
    StructKeyExists
    StructSort
```



Arrays

<cfset variables.myArray = ["Monday","Tuesday"]>
Key Functions:

ArrayLen

ArrayToList

ListToArray

ArraySort

ArraySum



Old Structure and Array Syntax

Pre ColdFusion 8:

- <cfset variables.myStruct = StructNew()>
- <cfset variables.myStruct.mon = "Monday">
- <cfset variables.myStruct.tue = "Tuesday">
- <cfset variables.myArray = ArrayNew(1)>
- <cfset variables.myArray[1] = "Monday">
- <cfset variables.myArray[2] = "Tuesday">



Lists

```
<cfset variables.myList =</pre>
    "Monday, Tuesday, Wednesday">
Delimiter: Comma by default, other popular ones | ~
Key functions:
    ListAppend
    ListChangeDelims
    ListFindNoCase
    ListFirst
    ListLast
```



CF Administrator

http://localhost[:8500]/cfide/administrator

Debugging

Datasources



Query

Comes back from cfquery
Kind of array of structures
Query of Queries
Make Own queries
Returned from other tags as well like cfdirectory



Forms

Get vs Post

Get = URL Scope

Post = Form Scope

cfform



cfqueryparam

Always, always use with data from users



Types of Files

.cfm

Original

Include

Custom tag

ColdFusion Components (cfc)



CF Include

cfinclude template=""

Uses the variables scope of the original file



Custom Tag

Very powerful feature Especially for presentation Passed values are attributes Caller scope to pass back

<cf

<cfmodule



CF Component (CFC)

Introduced in version 6
Collection of Functions
Use as Library or Objects



User Defined Functions

Write your own functions cffunction

name=""

access="public | private | remote"

Var scope
Always, always, always



Q&A

