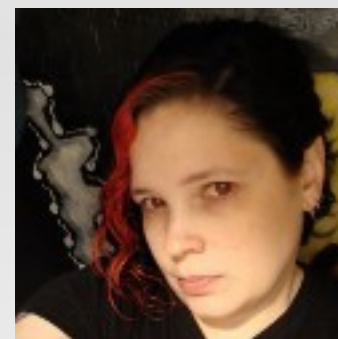# Dive Deeper

How to Trace Code to Its Source

NCDevCon 2012

Daria Norris

Who Am I?

- **15+ years ColdFusion**

- **12 yrs as an independent contractor**

- **Currently working for the Free Library of Philadelphia**

- **CodeBass Radio**

Write Once, Run Anywhere

- <cfinclude>

- Application.cfc

- User Defined Functions (UDFs)

- Objects (CFCs)

- Frameworks

- Debugging

- Stack Tracing

It all starts with .cfm

- Request runs linear
- Simple logic

<cfinclude>

- Granddaddy of code reuse
- Executes where it is included

User Defined Functions (UDFs)

- Small reusable chunks of code

- Extends ColdFusion's functionality

Application.cfc

(and Its Ugly Cousin)

- Application.cfm used to perform this function

- Executes at the start of every request

- ColdFusion searches up directory tree until it finds one of them

Application.cfc

- onApplicationStart

- onSessionStart

- onRequestStart

- … and other functions

Application.cfc

- onApplicationStart

- onSessionStart

- onRequestStart

- … and other functions

CFCs

- Collection of functions

- Object or <cfinvoke>

- Extends & the super scope

Frameworks

- Use design patterns like MVC

- Model Glue

- Framework One (FW/1)

- ColdBox

- ...many others

Debugging

- Turn on via the CF administrator

- <cftry> / <cfcatch>

- Error Messages

- <cfthrow>

Stack Tracing

- Records the underlying java methods

- Tools to help you dig deeper:

    - ColdFusion Enterprise Server Monintor

    - FusionReactor

    - Java Tools

Resources

Determining Which Function Called This Function (Using ColdFusion)

http://www.bennadel.com/blog/406-Determining-Which-Function-Called-This-Function-Using-ColdFusion-.htm

Finding Template Execution Stack in ColdFusion

http://www.bennadel.com/blog/116-Finding-Template-Execution-Stack-in-ColdFusion.htm

ColdFusion 10 Backport: CallStackGet & CallStackDump

http://misterdai.yougeezer.co.uk/2012/03/15/coldfusion-10-backport-callstackget-callstackdump/

Stack Trace

http://ketanjetty.com/coldfusion/monitor/stack-trace/

CF911: Stack Tracing CFML Requests to Solve Problems

http://carehart.org/presentations/#stack