



# CFEclipse Reloaded

FR5D: CFEclipse Reloaded

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CF

CF.Objective()

# What this presentation IS about

- Getting into the features of CFEclipse
- Using some of the more advanced features
- Customising and getting under the covers of the IDE
- Some other tools to help you develop better

# What this not is about

- Getting to know Eclipse and CFEclipse
- Installing CFEclipse
- A Feature Tour
- How to code ColdFusion
- You should already be using CFEclipse
- And be a pretty L337 CF Developer!
  - (if not, I am sure you are handsome/  
gorgeous)

# Who is Mark Drew?

- CFEclipse's Lead Developer
- Product Manager at Design UK  
<http://www.designuk.com> developing  
LavaSuite CMS/CRM/eCommerce
- UK ColdFusion User Group's Co-Manager
- A ColdFusion Developer since '97  
and Web developer since '94
- A CFEclipse and ColdFusion  
Evangelist



No, it didn't hurt..

 **CFEclipse**

# Topics

- A Quick Recap of CFEclipse
- Snippets and SnipEx
- Running Unit Tests from CFEclipse
- Using and Customising the Frameworks Explorer
- Editing Tag and Syntax Dictionaries

# Topics continued...

- A quick look at other tools to help you get CF development done
  - Adobe's ColdFusion 8 Extensions for Eclipse
  - Ant
  - Subversion
  - Mylyn
  - Aptana

# A quick recap... What is CFEclipse?

- A plugin for Eclipse to enable ColdFusion development specific features
- Tag Completion, Syntax Highlighting, Multiple versions ColdFusion, Snippets, embedded browser
- File Explorer, FTP, SFTP support
- And a lot of other features that you *\*should\** be aware of already!

# SNIPPETS

CF

CF.Objective()

# Snippets are Super!

- Snippets are re-usable blocks of code
- They can be accessed from the Snippets View, or by using (Apple) Ctrl+J and a trigger text
- Trigger Texts enable unlimited expendability (well, there are limits, but who has 1.4 million snippets?)
- They can have variables placed in them so text is replaced with whatever you like
- They can be entered multiple with a few simple key strokes (e.g. triggertext\*3)
- Variables can be added by using “`$${<variablename>}`”

# Other variables you can use

```
$$ {DATE}
$$ {MONTH}
$$ {TIME}
$$ {DATETIME}
$$ {DAYOFWEEK}
$$ {CURRENTFILE} - Current file name (just the file)
$$ {CURRENTFOLDER} - Current folder (The path to the containing
folder)
$$ {CURRENTPATH} - Current path (full file name)
$$ {CURRENTPRJPATH} - Just the folder
$$ {USERNAME} - Current user
$$ {MONTHNUMBER} - Month as a number
$$ {DAYOFMONTH} - Day of month as a number
$$ {DAYOFWEEKNUMBER} - Day of week (the week starts on Sunday)
$$ {DATETIME24} - DateTime24 - a 24 hour clock version of datetime.
$$ {YEAR} - Current year.
```

# Snippets Demo Time



(if you see the mouse, its demo time!)

# SnipEx

- Remote Snippet Repositories
- Connects to CFEclipse
- Appears in your current Snip View



# SnipEx: remote snippets

- Setting up a SnipEx server
- Connecting to it from CFEclipse
- Adding your own Snippets

# SnipEx Demo time



# Unit tests in ColdFusion

- Two main frameworks for ColdFusion Specific unit testing:
  - cfcUnit <http://www.cfcunit.org/cfcunit/>
  - CFUnit <http://cfunit.sourceforge.net/>
- Both are good frameworks
- Sean Corfield provided a façade for cfcUnit
  - <http://www.corfield.org/blog/index.cfm>
- Other frameworks available mx:Unit (but not included in CFEclipse)

# Unit Testing Demo



# Frameworks Explorer



And more...

# Frameworks Explorer

- Provides a view to navigate ColdFusion Frameworks
- Can support any XML configured Framework (or file in your project)
- It is very configurable and provides ways to add your own actions to the explorer

# Using the Frameworks Explorer



# Customising the Frameworks Explorer

- Configured through three XML files
  - frameworks.xml
  - actions.xml
  - labels.xml
- Located under
  - <eclipse install>/plugins/  
org.cfeclipse.cfml.frameworks.x.x.x/config

# Frameworks.xml

- Manages which frameworks are supported by the explorer

frameworks

config

folders

framework \* n

files

file

ignore

include

# Labels.xml

- Defines which icons and text to display for a node

```
<labels>
  <framework id="framework_cs">
    <node name="framework_cs" image="frameworks_cs.gif"/>
    <node name="coldspring.xml" image="frameworks_cs.gif"/>
    <node name="bean" image="bean_obj.gif" text="{id}: {class}"/>
    <node name="constructor-arg" image="constructor_arg.gif" text="{name}"/>
    <node name="property" image="field_public_obj.gif" text="{name}"/>
    <node name="entry" image="variable_tab.gif" text="{key}"/>
  </framework>

```



# Actions.xml

- The actions.xml file defines what you can do when you right click on a node in the Explorer Tree
- Actions that are available are:
  - AddChild: Adds a node below the currently selected node
  - GoToFile: Opens a file
  - InsertText: Inserts some text into the current editor
- Actions are passed some text, the text can be built up with functions and the snippet syntax

# Functions

- To build up the text passed to the actions, you can use some in-built functions to help you:
  - `xpath(<path>, delimiter)`: performs an xpath function on the frameworks explorer xml
  - `listfiles("list of files", "delimiter")`: Lists files in a path
  - `fwfilepath()` : the path to the framework file
  - `{attribute}` inserts an attribute from the selected node

# AddChild

- Adds a node under the currently selected node

```
<action framework="framework_mg"  
        node="controller"  
        class="org.cfecclipse.cfml.frameworks.actions.AddChild"  
        label="Add Message Listener"  
        type="right_click">  
    <![CDATA[  
        <message-listener message="$$${message}" function="$$${function}" />  
    ]]>  
</action>
```

# GoToFile

- Opens the framework file

```
<action framework="framework_fbx"  
  node="circuit"  
  class="org.cfecclipse.cfml.frameworks.actions.GoToFile"  
  label="Open File"  
  type="double_click" />
```

# GoToFile

- Opens the file defined by the path passed in

```
<action framework="framework_mg"
  node="include"
  parent="views"
  class="org.cfecclipse.cfml.frameworks.actions.GoToFile"
  label="Open Include"
  type="right_click">
  <![CDATA[
  xpath("/root/framework_root/framework_cs/ -
  bean[@id='modelGlueConfiguration']/ -
  property[@name='viewMappings']/value/text()", "") - |
  /{template}
  ]]>
</action>
```

# InsertText

- Inserts the text defined in the action into the current editor

```
<action framework="framework_cs"
        node="bean"
        class="org.cfecclipse.cfml.frameworks.actions.InsertText"
        label="Insert Generic Bean"
        type="right_click">
  <![CDATA[
    <cfset $$name = $$BeanHandlerName.getBean("{id}")>
  ]]>
</action>
```

# Customising the Syntax Dictionaries

- Syntax Dictionaries provide code completion to the editor
- Define tags, functions and scopes for different versions of ColdFusion as well as HTML, JavaScript and SQL
- Found in:
  - `<eclipse install>/plugins/org.cfeclipse.cfml.x.x.x/dictionary`

# Customising the Syntax Dictionaries

- dictionaryconfig.xml defines what languages CFEclipse will support
- Various dictionary nodes define the locations of the dictionary files themselves
- Big bad slide coming up!

```
<dictionary_config>
  <dictionary id="CF_DICTIONARY">
    <version key="cf8" label="Coldfusion 8">
      <grammar location="cf8.xml" />
      <grammar location="user.xml" />
    </version>
    <version key="cfmx701" label="Coldfusion 7.01">
      <grammar location="cfml7.xml" />
      <grammar location="user.xml" />
    </version>

    ...etc ...
  </dictionary>

  <dictionary id="JS_DICTIONARY">
    <version key="ecma" label="ECMA Javascript">
      <grammar location="js.xml" />
    </version>
  </dictionary>

  <!-- note that this will get loaded into the CFML dictionary -->
  <dictionary id="SQL_DICTIONARY">
    <version key="mssql" label="Microsoft(R) SQL Server">
      <grammar location="sqlkeywords.txt" />
    </version>
  </dictionary>

  <dictionary id="HT_DICTIONARY">
    <version key="xhtml" label="XHTML">
      <grammar location="html.xml" />
    </version>
  </dictionary>
</dictionary_config>
```

# The Dictionary XML files

- Define tags, functions and scopes
- dictionary
  - tags
    - tag entries
  - functions
    - function entries
  - scopes
    - scope entries

# A Quick look at the dictionaries



# Other tools that play well with CFEclipse

- Adobe's ColdFusion 8 Extensions
- Ant
- Subclipse
- Mylyn
- Aptana
- FlexBuilder (for Flex)
- WST (for HTML and Web J2EE apps)

# ColdFusion 8 Extensions for Eclipse

- Provide step debugging capabilities
- A number of wizards for CFCs, AJAX and applications
- Database Connectivity
- File Connectivity through RDS
- Available at:
  - <http://www.adobe.com/support/coldfusion/downloads.html#cfdevtools>

# Ant

- Allows the automation of builds/processes and processes
- A XML based language file, similar to ColdFusion
- Lots of functionality available through external libraries
- Available from:
  - <http://ant.apache.org/>

# Subclipse

- Integration of Eclipse into a Subversion Source repository
- Check in/Check out + all the other functions you need for version control
- Available from:
  - <http://subclipse.tigris.org/>

# Mylyn

- Changes the UI to be Task Focused
- Connects to Bugzilla, Trac and JIRA Tasks repositories
- Removes the clutter from the UI and shows you just the files you need
- Eclipse project
- Available from:
  - <http://www.eclipse.org/mylyn/>

# Aptana

- Full featured IDE as well as a plugin supporting HTML, JavaScript, CSS, FTP Synching, Rails, AIR, iPhone, PHP and more
- Available from:
  - <http://www.apтана.com>

# Summary

- Able to code efficiently with Snippets and SnipEx
- Run Unit Tests
- Used and Customised the Frameworks Explorer
- Modifying the Syntax Dictionaries
- Used other tools to get stuff done

# Resources

CFEclipse : <http://www.cfeclipse.org>

Mark Drew : <http://www.markdrew.co.uk>

Adobe:

<http://www.adobe.com/support/coldfusion/downloads.html#cfdevtools>

<http://www.adobe.com/products/flex/>

Eclipse:

<http://www.eclipse.org>

<http://www.eclipse.org/webtools/>

<http://www.eclipse.org/mylyn/>

Ant: <http://ant.apache.org>

Subclipse/Subversion:

<http://subclipse.tigris.org>

<http://subversion.tigris.org>

Aptana: <http://www.apтана.com>

# Q and A

- You ask the Questions
  - I shall answer them (If I can!)
  - We all run out and get coding!
- 
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  - <http://www.markdrew.co.uk>