Eclipse and CFEclipse

Eclipse - A project aiming to provide a universal toolset for development.

CFEclipse - a plugin for Eclipse that provides an Integrated Development Environment for the **ColdFusion** Programming Language.

NECFUG Meeting

February 26, 2008 6:30pm
Ryan Stille
Mike Henke

Who the heck are these guys?

Ryan Stille

- Works at CF WebTools
- Leads the NECFUG
- Has been using Eclipse on and off for a year

Mike Henke

- Working with CF since 99
- Using Eclipse since 3.0 (2004)
- Currently working for Vente, an Experian company
- Very interested in Acceptance and Unit testing
- Learning OO / Frameworks
- Automating tasks

What We will Cover

- Installation of Eclipse
- Key Terms
- Resources
- Features

- Installation of Plugins
- Layout of IDE
- Possibilities of Eclipse
- Hang ups

Eclipse is an IDE for "anything, and nothing at all"
from Eclipse IDE Pocket Guide

What We will Not Cover

- How to pickup Girls using Eclipse
- Eclipse doing your day trading
- Eclipse teaching you Chinese
-

Top 5 Crazy Eclipse Plugins

Plugin - Plug-ins are structured bundles of code and/or data that contribute function to *Eclipse* like *CFEclipse*

- **ZDT - study Mandarin Chinese**
- Eclipse Games - minesweeper, snake, etc
- mp3 player - listen to music
- **EclipseTrader - online stock trading system**
- GmailClipse - check your gmail account

Find Other Eclipse plugins - http://www.eclipseplugincentral.com
List was abridged from **http://tinyurl.com/2ksfec**

Some are free and other cost

Intro

Lets get started, but hold on

Eclipse may not be for you

A lot of people try Eclipse but switch back to their original IDE, then try again eventually (and again, and again)

- *Yes, Eclipse/CFEclipse has a learning curve.*
- *Yes, it (Eclipse) forces you to work differently.*
- *Yes, it's (CFEclipse) a bit buggy at times and has it's quirks.*

"But *for me*, once you take the time to adjust your work habits, it is THE best environment for developing ColdFusion code."
- Jim Preist from http://tinyurl.com/374q9a

Possibilities of Eclipse

Tight integration between systems

- **Debugger** - FusionDebug / CF8 Debugging
- **Ant** - is a software tool for automating software build processes
- **Source control** - Subversion, CVN
- **Mylyn** - Task-Focused Interface, reduces information overload and makes multi-tasking easier
- **SQL Editors** - SQL Explorer, Data Tools Platform
- **XML Editors** - XML Buddy, Aptana, WTP
- **HTML/CSS Editor** - Aptana, Web Tools Platform Project
- **Flex Builder**
- **Tasktop** - enables you to take control of the enormous volumes of information that make up your workday.

Eclipse

Finally Let's Do Some Stuff

Installation Of Eclipse

Unzip - thats it.

Create shortcut of exe

Demo/Hands-On

Getting started

Most people start by downloading one of the five different packages. (We started with the Classic)

	Java	JEE	C/C++	RCP/Plugin	Classic
RCP/Platform	✓	✓	✓	✓✓	✓✓
CVS	✓	✓	✓	✓	✓✓
EMF	✓	✓		✓	
GEF	✓	✓		✓	
JDT	✓	✓		✓	✓✓
Mylyn	✓	✓		✓	
WST	✓	✓		✓	
PDE		✓		✓✓	✓✓
Datatools		✓			
JST		✓			
CDT			✓		

Legend:

✓✓ Included (with Source)

✓ Included

✓ Partially Included

Okay so what did we just accomplish?

Using Workspace
When you first start Eclipse, you need to define a **workspace** .

Once you open your workspace, you will be presented with the main window called the **workbench**.

There are three different types of resources in the **workbench** :
projects , *folders* , and *files* .

Demo/Hands-On

Creating a Project
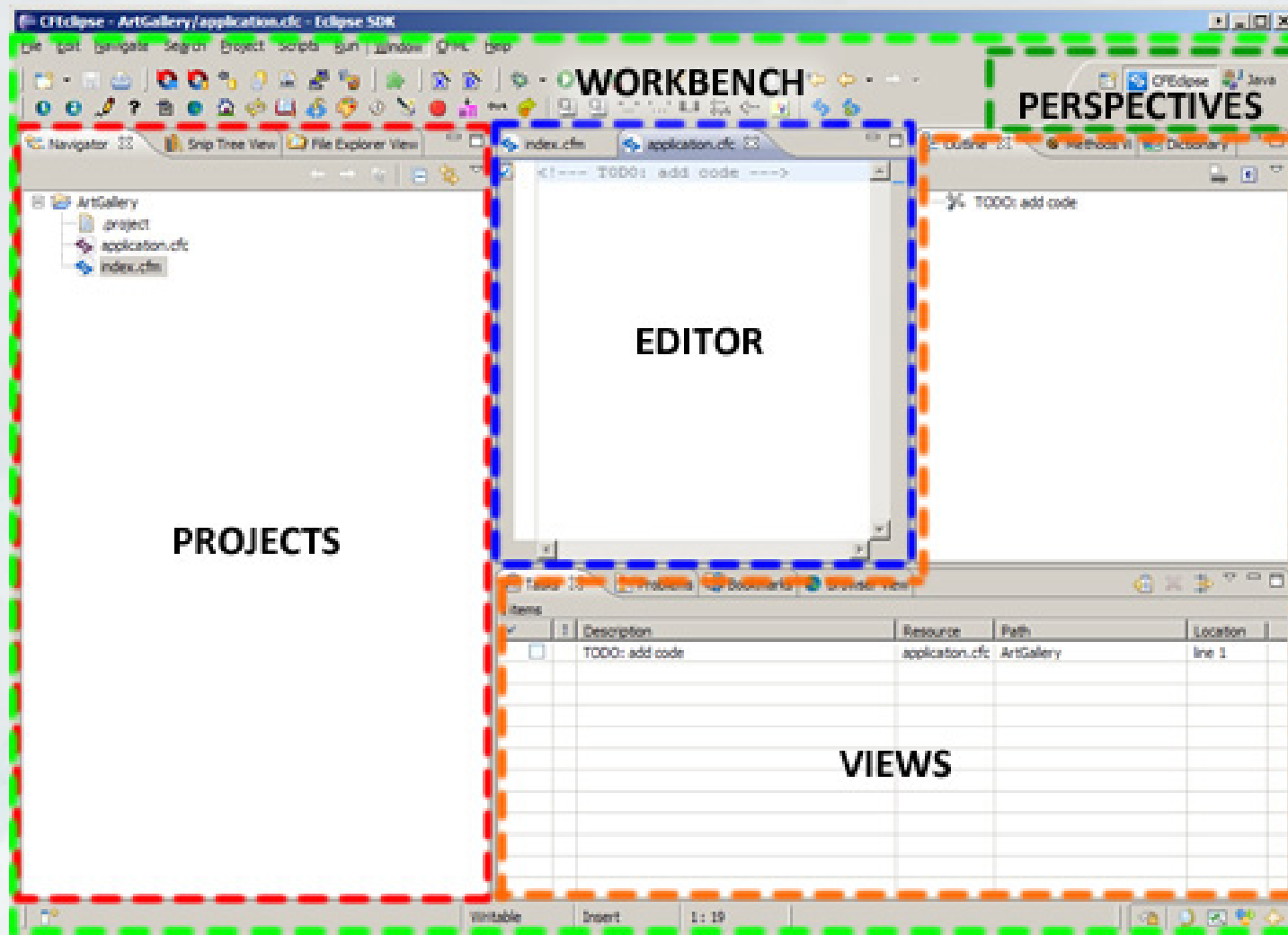**workbench** just a directory to hold your *projects*, *files*, *and folders*

Projects are the largest structural unit used by the Workbench .
Folders and *files* can be opened, closed, or created **within the project**

**import project with cfm files

Demo/Hands-On

Eclipse terminology

From "Code ColdFusion applications fast with the Eclipse CFEclipse plug-in"
http://tinyurl.com/26y6gs

Setup Workbench & Perspectives

Workbench - The workbench is the main IDE window comprising menus, toolbars, and views combined in a functional group known as a *perspective.*

Perspectives - Each *Workbench* contains one or more perspectives. A perspective defines the initial set and layout of views.

Within each *perspective,* there are many *views* .

Views - Windows providing one specific function, such as projects, file navigator, bookmarks, and many others.

switch between & create new/save
Eclipse online doc - http://tinyurl.com/yumqxc

Demo/Hands-On

Edit Area

allow us to create, edit, and save files

- Edit Area
  - tabs
  - divide and drop half top or bottom (can't drag outside of eclipse)
  - difference of right clicking on tab verses within edit area
  - min/max whole edit area icons and double click tab
  - setting line numbers

Editors don't overlap each other. *Functionality of Editors aren't combined* .   *show assigning ctrl 3, right click on file

Demo/Hands-On

Views

provide a structured presentation of a <u>file</u>, <u>project</u>, or other <u>resources</u>
- Arranging (placement/detach)
- Fast view
- Trim Stack
    - Toolbar (set of buttons)
    - configure (windows --> windows --> customize perspective --> commands)
- Menus
    - right-click on tab of view (system menu)
    - triangle in toolbar, more options

Demo/Hands-On

Features of Eclipse

Features of Eclipse
- Search
- Bookmark
- Back, Forward, Last Edit toolbar
- Link to Editor button
- Shortcuts
    - ctrl - 3 - Quick Access
    - ctrl shift l - List of Shortcuts
    - ctrl shift r - Find Resource
- Working Sets

Help --> Tips And Tricks
***setting line numbers

Demo/Hands-On

In Depth - Working Sets

Working Sets

Demo Eclipse.org - *Documents searching for Working Sets*

Create A Working Set

http://tinyurl.com/35oh28

Demo/Hands-On

CFEclipse

This is all cool, but I came here to learn about ColdFusion stuff

Installation of Plugins

two examples of installation

CFEclipse

.

Start Eclipse and navigate to Help->Software Updates->Find and Install.

http://cfeclipse.tigris.org/update

Demo/Hands-On

ColdFusion Extensions

drop over plugins folder

***eclipse -clean
http://tinyurl.com/2fjuqb

Features of CFEclipse

Features of CFEclipse
- **Dictionary - show view**

- CFUnit

- CF Framework

- **Snip Tree Views**

- Shortcuts
  - ctr-shift-d and ctr-shift-a

***setting line numbers (hey didn't we do that already)

Demo/Hands-On

In Depth - Snippets

Snippets
- Snippets are blocks of quote
- Inserted into your document by dbl-click or keyboard

Snipex Server
- Allows you to share snippets! How cool is that?
- CF Lib: http://www.cflib.org/snipex/snipex.cfc

Features of ColdFusion extensions

- CF8 Debugger

- RDS Dataview

- RDS Fileview

- CF Log View

Demo/Hands-On

In Depth - RDS Features

RDS

Conclusion

Only 4 more slides

Eclipse hang ups

Project workflow
Think of Projects as a "bucket" containing all of the files and folder for your website.

I can't open file directly by double-click?
Eclipse isn't really designed to open files directly from the Windows shell - it's oriented around "Projects".

***Main Idea is use <u>whatever</u> IDE you will be most productive with.

"Moving to eclipse was not an easy transition... but today I couldn't image (imagine) developing in anything else. Eclipse just offers so much in the way of extensibility.. ." Charlie Griefer from http://tinyurl.com/374q9a

Other Resources

- Eclipse Home - http://www.eclipse.org
- CFEclipse - http//www.cfeclipse.org
- http://www.eclipse.org/resources
- http://live.eclipse.org
- see other CFEclipse layouts - http://tinyurl.com/24hw5b

Demos
Using Eclipse Workspace - http://live.eclipse.org/node/469
UGTV - http://www.carehart.org/ugtv
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Books
Eclipse Pocket Guide - Oreily

Google Groups
http://groups.google.com/group/cfeclipse-users
http://groups.google.com/group/fusiondebug

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http://www.stillnetstudios.com

http://tinyurl.com/2exgkj

Bonus

Restoring deleted resources from local history

http://tinyurl.com/yu75q2