

Time to release your content from it's box!







Who am I?

0

- Luis Majano Computer Engineer
- Born in El Salvador ----->
- President of Ortus Solutions
- Manager of the IECFUG (www.iecfug.com)
- Creator of ColdBox, MockBox, LogBox, CacheBox, WireBox, ContentBox, or anything Box!
- Documentation Weirdo!
- @Imajano, @ortussolutions









Agenda

- ContentBox Overview + Technology
- ContentBox Modularity
- Deployment + Scalability
- Features
- Build Stuff





ContentBox

- Modular CMS
- Powered by The ColdBox MVC Platform
- Built to scale, cluster and deploy securely
- Extensible via CFML + Groovy*
- Two License Types:
 - Professional Open Source Apache 2
 - Commercial
- Public release August 2012





www.gocontentbox.org



Professional Open Source



- Training
- Content Migrations & Strategy
- Support & Mentoring Plans
- Architecture & Design Sessions
- Module/Theme Development
- Merengue dancing is optional

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ContentBox Modularity

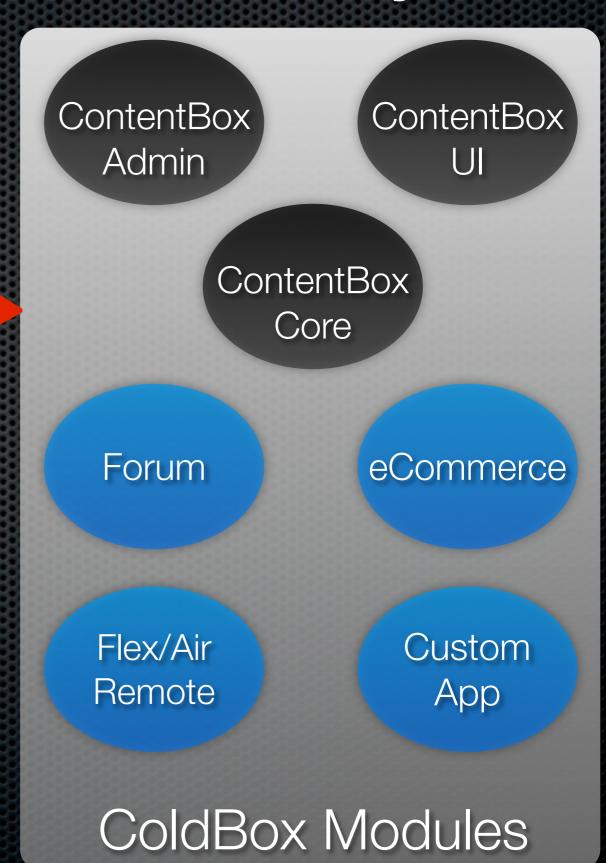
ANY
ColdBox MVC
Application

Events

Custom Security

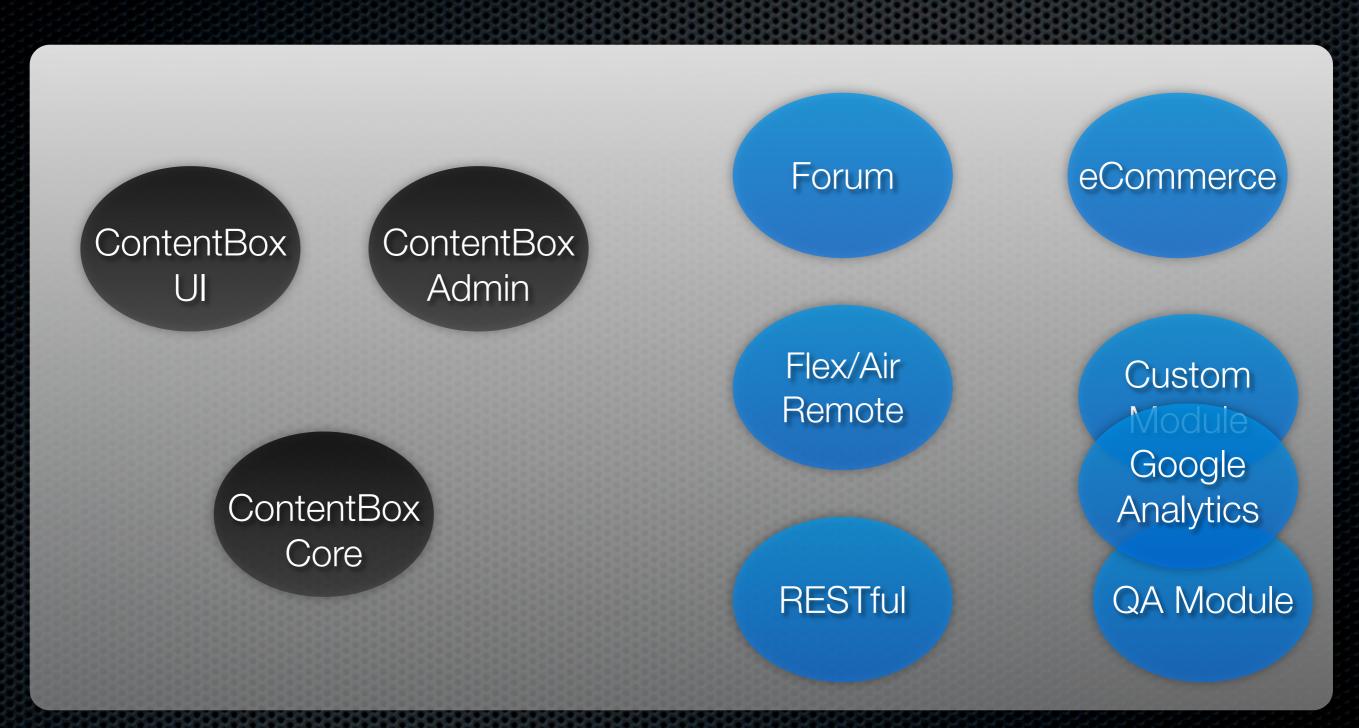
Plugins

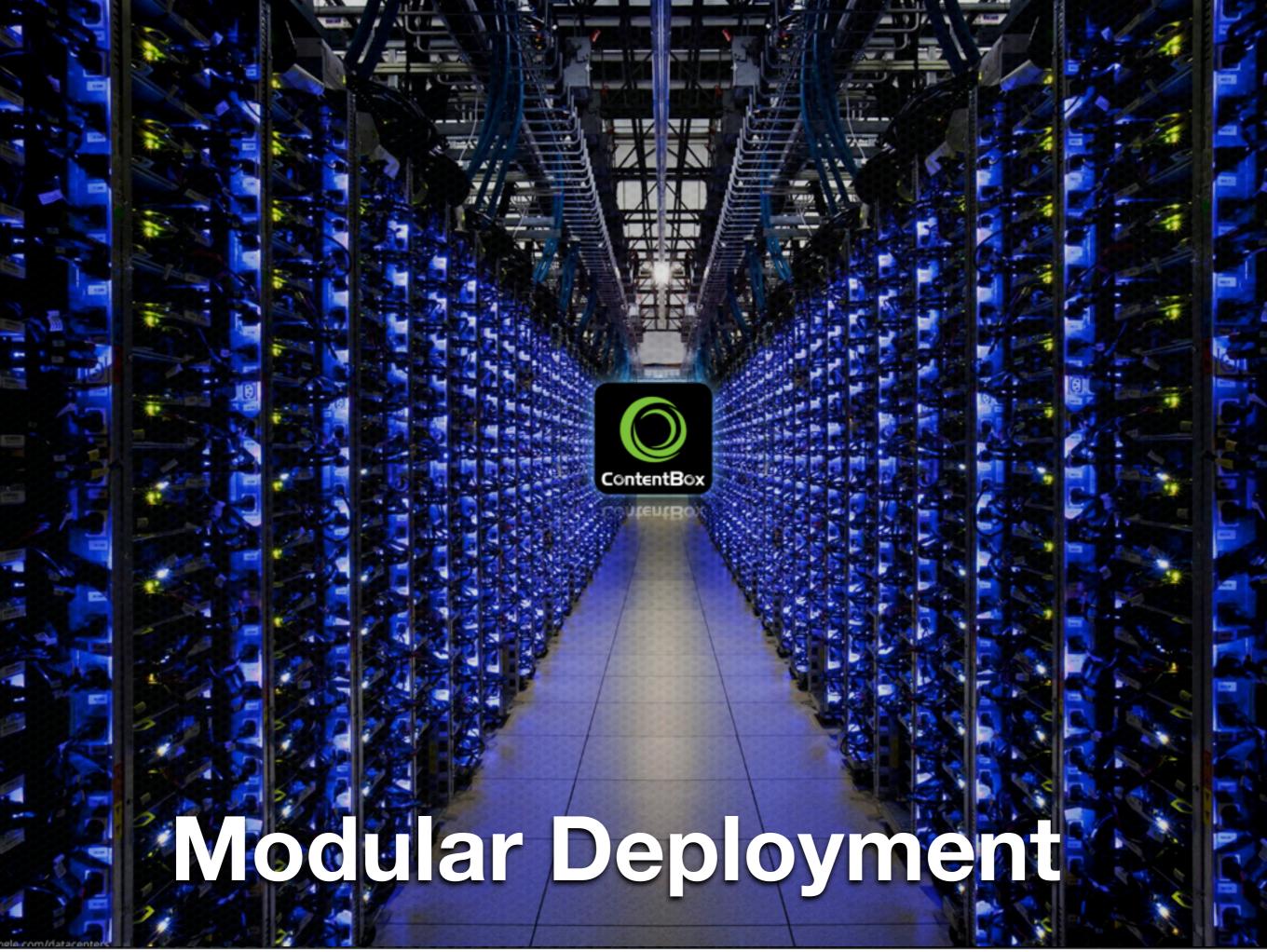
Model





Modular Architecture







Traditional Deployment

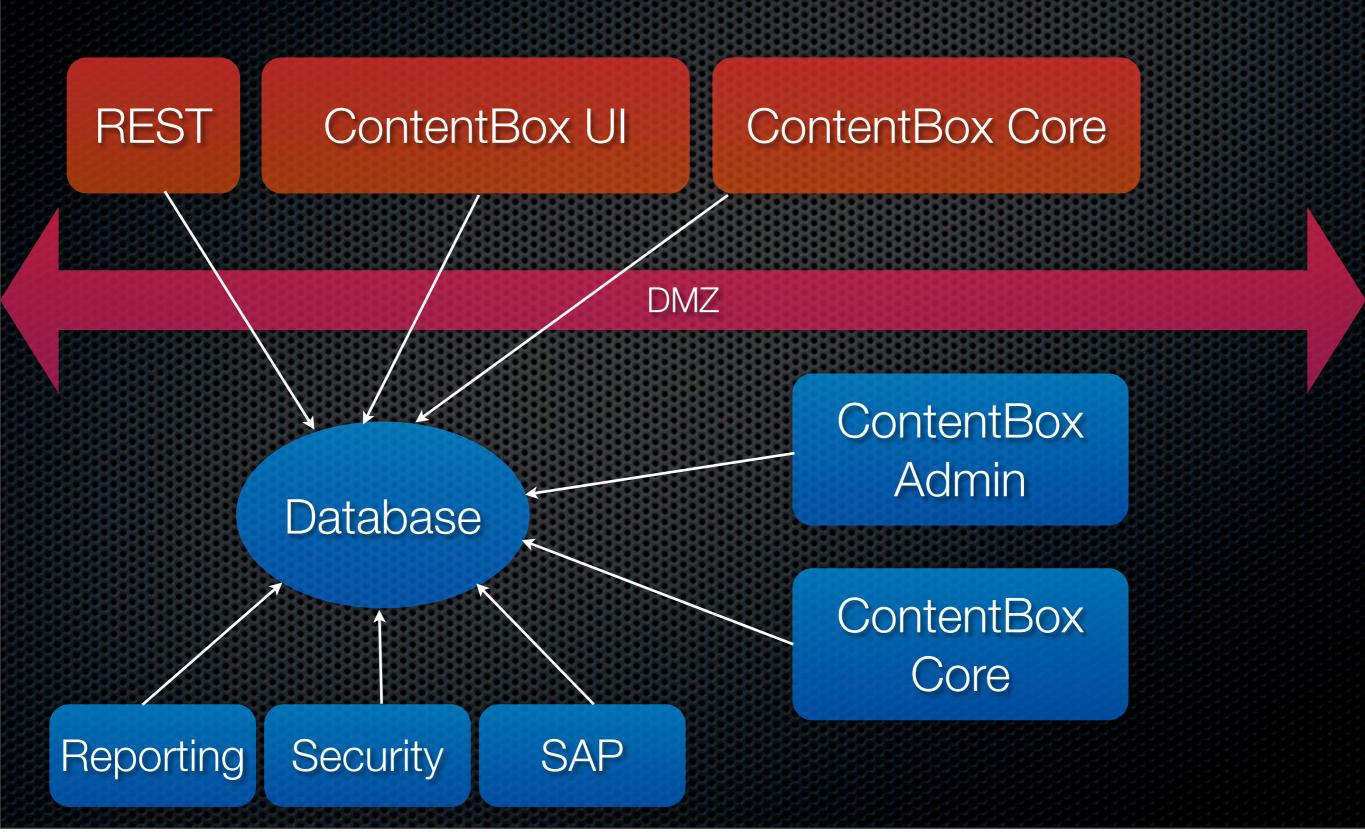
Monolithic APP, ADMIN, TOOLS, API

DMZ

Database



Modular Segregated Deployment









What can we extend?

- Powered by ColdBox MVC
- Dependency Injection & AOP
- > 100 events to listen to
- Create custom content types
- Custom security & search

- Modules
- Widgets
- Layout Themes
- Extend the UI+Administrator
- Geek Panel







ContentBox Modules

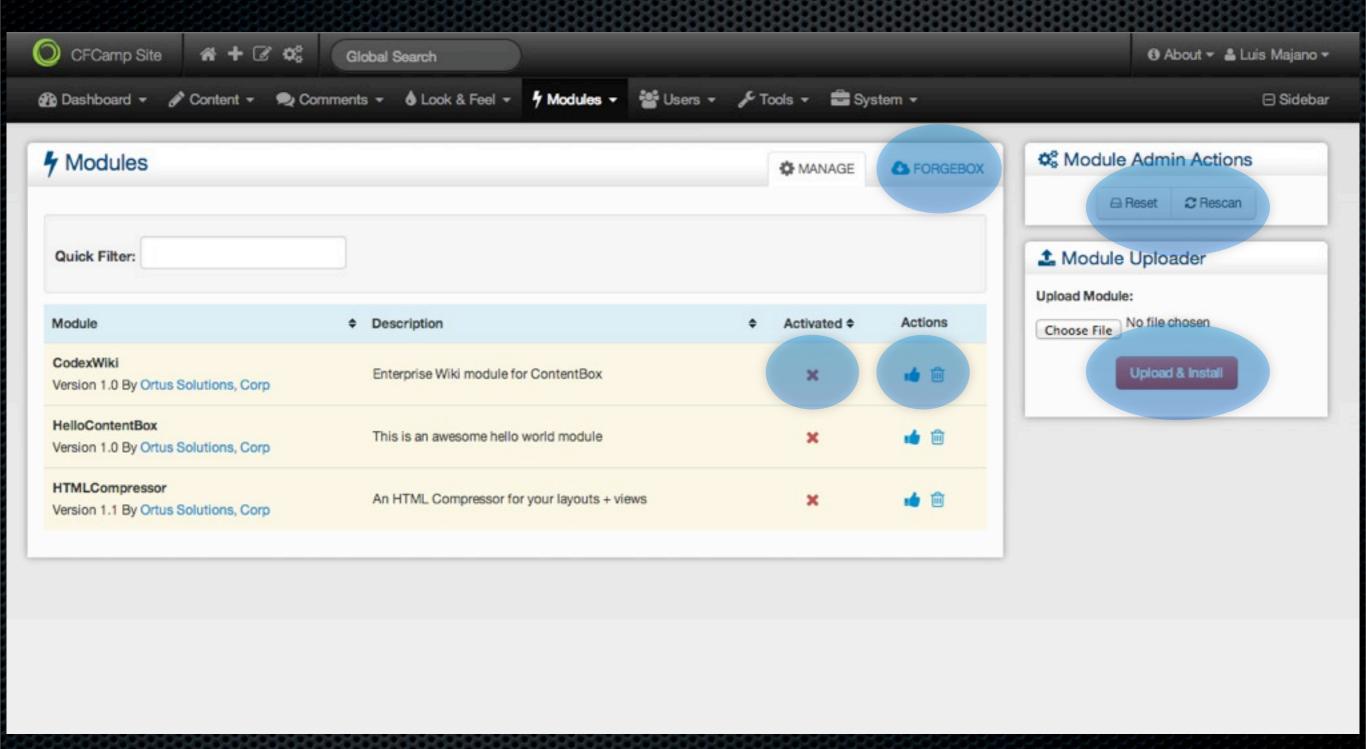
- Extended ColdBox Modules
- Managed by ContentBox Admin
 - Activated/Deactivated
 - Installed/Uninstalled
- Mini self-contained applications
- Extend ContentBox or Application
- Module Composition >1 module
- ContentBox is a collection of modules
- wiki.coldbox.org/wiki/Modules.cfm







ContentBox Modules





Features

- ContentBox menu contributions
- Own events
 - ContentBox admin events
 - Application events
- Own Views
- Own domain model
- URL Mappings
- DI and AOP
- Environment detection
- Contain ContentBox Widgets
- ForgeBox Connection*



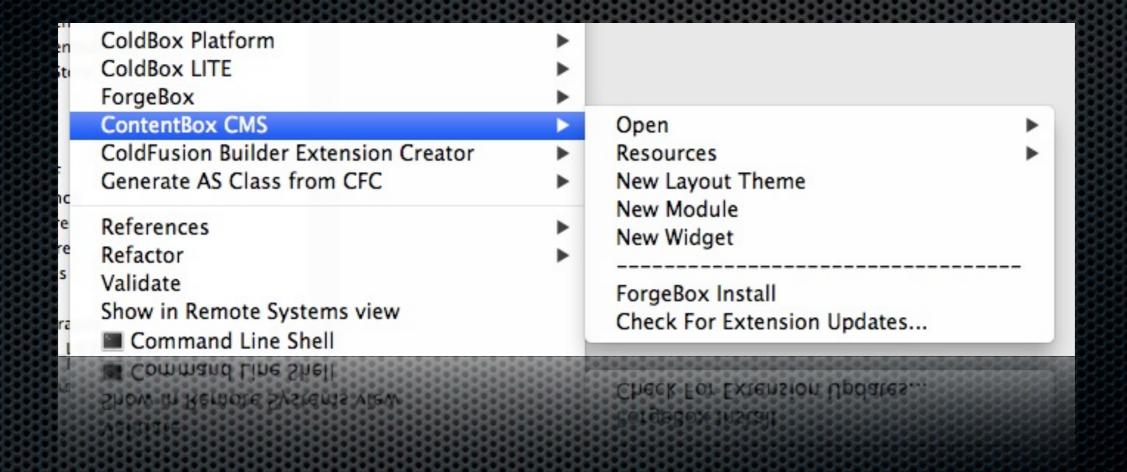


Interceptors





ContentBox Utilities





Anatomy of a Module

Also an interceptor

ModuleConfig.cfc (Mandatory)

handlers (optional)

layouts (optional)

views (optional)

plugins (optional)

interceptors (optional)

model (optional)



ModuleConfig

- Simple CFC Interceptor
- Fixed Properties
- Configure()
- Life cycle methods

```
this.title
this.author
this.webURL
this.description
this.version
this.viewParentLookup
this.layoutParentLookup
this.entryPoint
this.forgeboxSlug
```

```
component{
  function configure();
  function onLoad();
  function onUnload();

  function onActivate();
  function onDeactivate();
}
```

Important Services

- cbHelper@cb
- settingservice@cb
- adminMenuService@cb
- widgetService@cb
- pageService@cb
- entryService@cb
- contentService@cb
- customHTMLService@cb





CBHelper

- Used to build layout themes
- One stop shop for anything ContentBox
- API Docs
- Module Methods
 - buildModuleLink(module, linkTo, queryString, ssl)
 - setNextModuleEvent(module, event, queryString)







Extend: Widgets

- Based on ColdBox plugins
- Simple interface: renderit()
- Self-documenting
- Use in editors, layouts and as ColdBox Plugins

```
any function renderIt(required slug, defaultValue){
   var entry = entryService.findWhere({slug=arguments.slug});

   if( !isNull(entry) ){
       return entry.getContent();
   }

   // default value
   if( structKeyExists(arguments, "defaultValue") ){
       return arguments.defaultValue;
   }

   throw(message="The content slug '#arguments.slug#' does not exist",type="CustomHTMLWidget.InvalidEntrySlug");
}
```





Extend: Editors

Page, Blog and Custom HTML Editors accept widgets via {{{ }}} notations

//Executes the renderit() by convention
{{{WidgetName arg1=value arg2=value}}}

// Execute ANY method
{{{WidgetName.method arg1=value arg2=value}}}







Extend: Events



- Based on ColdBox interceptors
- Event driven programming
- Over 50 different events

- Extend the admin/layouts interface
- Use as filters
- Produce output

```
function cbadmin_postAuthorSave(event.interceptData){
    var author
                       = arguments.interceptData.author;
    var currentAuthor = securityService.getAuthorSession();
    // get mail payload
    var bodyTokens = {
                       = author.getName(),
         authorName
                      = author.getRole().getRole(),
         authorRole
         authorEmail = author.getEmail(),
                       = CBHelper.linkAdmin("authors.editor.authorID.#author.getAuthorID()#"),
         authorURL
                           = currentAuthor.getName(),
         currentAuthor
                                = currentAuthor.getEmail()
         currentAuthorEmail
    };
    var mail = mailservice.newMail(to=settings.cb_site_email,
                                      from=settings.cb_site_outgoingEmail,
                                      subject="#settings.cb_site_name# - Author Created - #bodyTokens.authorName#",
                                      bodyTokens=bodyTokens);
    // generate content for email from template
    mail.setBody( renderer.renderView(view="email_templates/author_new", module="contentbox") );
    // send it out
    mailService.send( mail );
```



Content Rendering



cb_onContentRendering cb_onCustomHTMLRendering



Admin Events



ContentBox

```
Admin Layout HTML points
"cbadmin_beforeHeadEnd"
"cbadmin_afterBodyStart"
"cbadmin_beforeBodyEnd"
"cbadmin_footer"
"cbadmin_beforeContent"
"cbadmin_afterContent"
"cbadmin_onTagLine"
"cbadmin_onTopBar"
```

```
// Author Events
"cbadmin_preAuthorSave"
"cbadmin_postAuthorSave"
"cbadmin_onAuthorPasswordChange"
"cbadmin_preAuthorRemove"
"cbadmin_postAuthorRemove"
"cbadmin_preAuthorPreferencesSave"
"cbadmin_postAuthorPreferencesSave"
"cbadmin_UserPreferencePanel"
```

```
// Page Events
"cbadmin_prePageSave"
"cbadmin_postPageSave"
"cbadmin_prePageRemove"
"cbadmin_postPageRemove"
"cbadmin_onPageStatusUpdate"
"cbadmin_pageEditorSidebar"
"cbadmin_pageEditorSidebarAccordion"
"cbadmin_pageEditorSidebarFooter"
"cbadmin_pageEditorFooter"
"cbadmin_pageEditorInBody"
```

```
// Entry Events
"cbadmin_preEntrySave"
"cbadmin_postEntrySave"
"cbadmin_preEntryRemove"
"cbadmin_postEntryRemove"
"cbadmin_onEntryStatusUpdate"
"cbadmin_entryEditorSidebar"
"cbadmin_entryEditorSidebarAccordion"
"cbadmin_entryEditorSidebarFooter"
"cbadmin_entryEditorFooter"
"cbadmin_entryEditorInBody"
```



Admin Events



// Category Events
"cbadmin_preCategorySave"
"cbadmin_postCategoryRemove"
"cbadmin_preCategoryRemove"
"cbadmin_postCategoryRemove"
// Comment Events
"cbadmin_onCommentStatusUpdate

// Comment Events
"cbadmin_onCommentStatusUpdate"
"cbadmin_preCommentSave"
"cbadmin_postCommentRemove"
"cbadmin_postCommentRemove"
"cbadmin_postCommentSettingsSave"
"cbadmin_postCommentSettingsSave"
"cbadmin_onCommentSettingsNav"
"cbadmin_onCommentSettingsContent"

// Permission events "cbadmin_prePermissionSave" "cbadmin_postPermissionSave" "cbadmin_prePermissionRemove" "cbadmin_postPermissionRemove" // Roles events "cbadmin_preRoleSave" "cbadmin_postRoleSave" "cbadmin_preRoleRemove" "cbadmin_postRoleRemove" // Dashboard events "cbadmin_onDashboard" "cbadmin_preDashboardContent" "cbadmin_postDashboardContent" "cbadmin_preDashboardSideBar" "cbadmin_postDashboardSideBar"



Admin Events



// Settings events
"cbadmin_preSettingsSave"
"cbadmin_postSettingRemove"
"cbadmin_postSettingRemove"
"cbadmin_onSettingsNav"
"cbadmin_onSettingsContent"

// Global HTML Events
"cbadmin_preGlobalHTMLSave"
"cbadmin_postGlobalHTMLSave"
// Custom HTML Events

"cbadmin_preCustomHTMLSave"

"cbadmin_postCustomHTMLSave"

"cbadmin_preCustomHTMLRemove"

"cbadmin_postCustomHTMLRemove"

"cbadmin_preSecurityRulesSave"
"cbadmin_postSecurityRulesSave"
"cbadmin_preSecurityRulesRemove"
"cbadmin_postSecurityRulesRemove"
"cbadmin_onResetSecurityRules"

// Layout Themes
"cbadmin_onLayoutActivation"
"cbadmin_onLayoutDeactivation"

// Version Control
"cbadmin_preContentVersionRemove"
"cbadmin_postContentVersionRemove"
"cbadmin_preContentVersionRollback"
"cbadmin_postContentVersionRollback"



Ul Module Events



```
// Layout HTML points: A layout must announce them via cb.event("cbui_footer",{renderer=this})
"cbui_beforeHeadEnd","cbui_afterBodyStart","cbui_beforeBodyEnd","cbui_footer","cbui_beforeContent",
"cbui_afterContent", "cbui_beforeSideBar", "cbui_afterSideBar",
// Code Interception points
"cbui_onPageNotFound", "cbui_onEntryNotFound", "cbui_onError", "cbui_preRequest", "cbui_postRequest",
"cbui_onRendererDecoration", "cbui_onContentSearch",
// Fixed Handler Points
"cbui_onIndex", "cbui_onArchives", "cbui_onEntry", "cbui_onPage", "cbui_preCommentPost",
"cbui_onCommentPost",
// Fixed HTML Points
"cbui_preEntryDisplay", "cbui_postEntryDisplay", "cbui_preIndexDisplay", "cbui_postIndexDisplay",
"cbui_preCommentForm", "cbui_postCommentForm",
"cbui_prePageDisplay", "cbui_postPageDisplay", "cbui_preArchivesDisplay", "cbui_postArchivesDisplay",
// Media Services
"cbui_onInvalidMedia", "cbui_onMediaRequest"
"CBUI_ONINValidMedia", " outi_unMediaRequest
```



Security Events



```
// Login Layout HTML points
"cbadmin_beforeLoginHeadEnd"
"cbadmin_afterLoginBodyStart"
"cbadmin_beforeLoginBodyEnd"
"cbadmin_loginFooter"
"cbadmin_beforeLoginContent"
"cbadmin_afterLoginContent"
```

```
// Security events

"cbadmin_preLogin"

"cbadmin_onLogin"

"cbadmin_onBadLogin"

"cbadmin_onLogout"

"cbadmin_onPasswordReminder"

"cbadmin_onInvalidPasswordReminder"

"cbadmin_onPasswordReset"

"cbadmin_onInvalidPasswordReset"
```



Media Manager



Events

```
//UI
"fb_preTitleBar"
"fb_postTitleBar"
"fb_preLocationBar"
"fb_postLocationBar"
"fb_preBottomBar"
"fb_postBottomBar"
"fb_preFileListing"
"fb_postFileListing"
"fb_preUploadBar"
"fb_postUploadBar"
"fb_preQuickViewBar"
"fb_postQuickViewBar",
// folder creation
"fb_postFolderCreation", "fb_preFolderCreation",
// removals
"fb_preFileRemoval", "fb_postFileRemoval",
// renameing
"fb_preFileRename", "fb_postFileRename",
// downloads
"fb_preFileDownload", "fb_postFileDownload",
// Uploads
"fb_preFileUpload", "fb_postFileUpload", "fb_onFileUploadError"
```



Q & A



Thanks!