IBM Domino® Designer Tips, Tricks and Enhancements for Maximum Productivity!

Gary Marjoram, IBM

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

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Speaker Introductions



Gary Marjoram - Software Engineer : IBM Ireland

- Joined the IBM Domino® Designer team and IBM in April 2013
- Over 18 years experience in the Software Industry across multiple industries including telecoms, automotive and pharmaceutical
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Agenda

- Configuring Domino Designer for maximum productivity
- Accelerating XPages mobile application development
- Creating your own Designer Wizard
- Build Automation with Headless Designer

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Configuring Domino Designer for maximum productivity

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JVM Performance Do this today!

- Domino Designer/Notes® is a Java program
- It requires a JRE to run
- The JVM has low memory settings in order to keep the Notes footprint as small as possible
- Designer requires more memory due to the large number of editors and builders it supports
- Designer performance is VASTLY improved with these recommended settings:

Designer 9 <mark>.0.1 Default Settings</mark>	Designer 9.0.1 Recommended Settings (Stand-alone Installation)
vmarg. <mark>Xmx=-Xmx512m</mark>	vmarg.Xmx=-Xmx1024m
vmarg. <mark>Xms=-Xms48m</mark>	vmarg.Xms=-Xms512m
vmarg.Xmca=-Xmca512k	vmarg.Xmca=-Xmca512k

- jvm.properties is located at <notes_bin>\framework\rcp\deploy
- Full details available in this technote:
 - http://tinyurl.com/DesignerJVMSettings

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Build Automatically

To build or not to build that is the question!

- Consider turning build automatically off if you have large applications on remote servers
 - Eclipse Java Builder is not optimized to execute over the network
- Mainly a matter of user experience
 - Novice users tend to forget to manually 'build' the application
- Java compile setting
 - Do not modify the Java->Compiler->JDK Compliance settings
- Domino remains backwards compatible
 - Java artifacts written on 9.0.1 will run on previous versions
 - As a result, the compliance is set to 1.5 automatically by Designer on startup



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Customize your environment Reduce the clutter!

- Customize existing perspectives (Designer, XPages ...)
 - Discard unused Views (Panels)
 - Re-arrange Views (Panels)
- Create and save new perspectives
- Customize the "Applications Navigator" in preferences
 - Remove design elements you don't use
- Create working sets
 - Reduces clutter in the Navigator
 - Rapidly change focus



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Customize your environment Reduce the clutter!

- Close Applications when not actively working on them
 - Frees valuable memory!
- For XPages development customize the Controls Palette in preferences
 - Remove unused / rarely used controls
 - Create custom palettes
 - Can't find a control? Did you know that you can search the palette?



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Lotus Notes - Das ungeschlagene Tool der Zukunft seit fast 20 Jahren

Container Controls

Keyboard Shortcuts

Shortcuts save precious development time!

- Designer/Eclipse has a number of built-in keys
 - Ctrl+F6: jump to a chosen editor
 - Ctrl+F7: jump to a chosen view (panel)
 - Ctrl+F8: Next perspective
 - Ctrl+M: Toggles maximize/minimize the active view or editor
 - Ctrl+N: New App
 - Ctrl+Shift+E: manage open editors
 - Java editor: Ctrl+Shift+T/R to navigate to other classes/anywhere
- Press Ctrl-Shift-L to get the list of keyboard shortcuts
 - Explore and find your favorites!
 - Customize the keyboard shortcuts in preferences
 Ctrl+Shift+L Ctrl+Shift+L

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Activate Editor	F12	^	
Add Javadoc Comment	Alt+Shift+J		
All Instances	Ctrl+Shift+N	=	
Backward History	Alt+Left	μ	
Build All	Ctrl+B		
Change Method Signature	Alt+Shift+C		
Close	Esc		
Close All	Ctrl+Shift+W		
Collapse All	Ctrl+Shift+Numpad_Divide		
Content Assist	Ctrl+Space		
Context Information	Ctrl+Shift+Space		
Сору	Ctrl+C		
Cut	Ctrl+X		
Debug Ant Build	Alt+Shift+D, Q		
Debug Eclipse Application	Alt+Shift+D, E		
Debug JUnit Plug-in Test	Alt+Shift+D, P		
Debug JUnit Test	Alt+Shift+D, T		
Debug Java Applet	Alt+Shift+D, A		
Debug Java Application	Alt+Shift+D, J		

Improving XPages Developer Productivity XSP Source Editor



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Improving XPages Developer Productivity XSP Snippets

 Commonly used XSP Snippets can be defined using the XML editor preferences

l	XML
	DTD Files
	XML Catalog
	⊿ XML Files
	⊿ Editor
	Syntax Coloring
	Templates
	Typing
	XML Schema Files

 Snippets can then be inserted to an XPage, in source mode, by hitting <ctrl+space> and typing a snippet name

A Home × 😫 *x - XPage ×				
xml version="1.0" encoding="UTF-8"?				
<xp:view <="" th="" xmlns:xp="http://www.ibm.com/xsp/core"></xp:view>				
keep				
# keepsessionalive -	<xp:scriptblock id="scriptBlock1"> <xp:scriptblock id="scriptBlock1"> <xp:cdata[XSP.addOnLoad{function(){ setInterval(function(){ XSP.partialRefreshPost("#{id:keepSessionAlive}", {}); }, 3000000) })]]> </xp:cdata[</xp:scriptblock></xp:scriptblock>			



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Improving Developer Productivity LotusScript Editor

- Code and Comment Templates
 - Allow users to automatically insert user defined code and comment templates on predefined artifacts/events (e.g. new Script Lib, new Sub etc..)
 - Allows organizations to implement certain coding standards easily (e.g. all Design elements have a copyright comment header etc)
- Font, colors etc..
 - Define which fonts (sizes and colors) are to be used for various language syntax
 - LotusScript Editor
 Code Templates
 Comment Templates
 Fonts and Colors



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Accelerating XPages mobile application development

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Domino Designer for Mobile App Dev

The Single Page Application Wizard - what is it?

- The Single Page Application Wizard is part of the "com.ibm.xsp.extlib.designer.tooling" plugin in the XPages Extension Library
- It is a Designer extension that contributes to the "com.ibm.designer.domino.xsp.editor.component" extension point
- It has been available on OpenNTF.org since 13th December 2013

XPages Extension Library - Release: 901v00_02.20131212-1115 Release Name 901v00 02.20131212-1115 Released on Dec 13, 2013 License Apache License Released by Paul Hannan Status Released 108 Downloads Cleared 😰 Yes Download(s) ExtensionLibraryOpenNTF-901v00_02.20131212-1115.zip





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Single Page Application Wizard Rapidly design your XPages mobile application

- The Wizard allows you to create an initial design framework for your XPages mobile application
- It walks you through the process of creating new Application Pages (xe:appPage) and populating them with various mobile controls
- Allows you to configure navigation between the Application Pages
- The produced App can perform basic CRUD with action buttons defined using the Wizard

 Step 1 of 1 - Configur 	the Application Pages for this Single Page	Application.	Container Controls
N CO	− 1970		Dojo Form
Name	Туре	New	🔁 Dojo Layout
		Delete	🔁 Extension Library
		Edit	🗁 iNotes
		Luit	🗁 Mobile
			💷 Application Page
			💷 Page Heading
			💷 Rounded List
Create a Custom Co	trol for the content of each Application Pa	ae a	💷 Rounded List Item
			De Single Page Application
			💷 Tab Bar
			💷 Tab Bar Button
	< Back Next > Finish	Cancel	💷 Toggle Switch

Lotus Notes - Das ungeschlagene Tool der Zukunft seit fast 20 Jahren

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Single Page Application Wizard Adding Application Pages

- Design your application by adding Application Pages and specifying their type
 - General
 - Navigator
 - Document Collection
 - Document Viewer
- Select this option to produce a Custom Control for the content of each Application Page
 - This is the recommended design pattern for XPages mobile applications

~	Name	Type	Nev
2	MainMenu	Application Navigator	Dele
	EmployeeList	Document Collection	
	Employee	Document Viewer	Edi
	TaskList	Document Collection	
	Task	Document Viewer	_
	Readme	General	_
			_
			_
			_
			_
			_
			_
			_
_			
1 -			

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Configure the main options for each Application Page

- Configure the Page Heading
 - Add a Page Label
 - Add a Tool Bar with buttons
 - Add a Back button and specify the Target Application Page
- Configure the Tab Bar with buttons
 - Buttons defined with a comma separated list
- Add predefined Document action buttons
 - For Document Collection and Viewer type pages action buttons can be added here to allow basic CRUD operations on the target application

2		X
Single Page A	Application Wizard	
 Step 4 of 15 - 0 	Configure the "EmployeeList" Application Page.	
		-
🔽 Add a Page	Heading	
Label :	My Employees	
Tool Bar Buttor	ns :	
	Add 'New' Document action button	
☑ Add a Bac Label :	k Button Main Menu	
Target Page :	MainMenu	•
🔽 Add a Tab I	Bar	
Tab bar button		
	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Can	cel

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Configure specific options for each page type

- Navigator
 - Add a list of links to other Application Pages

Entry	Target Page	New
My Employees	EmployeesList	Delete
My Tasks	TaskList	Delete
Readme	Readme	Edit
		Movella
		Move Down

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Configure specific options for each page type

- Document Collection
 - Define a data source
 - Choose the summary column for the Data View
 - Specify the target Document Viewer
 - Infinite scroll options

Single Page Application Wizard (1) Step 5 of 17 - Configure the Data Source for the "EmployeesList" Application Page.	Single Page Application Wizard (i) Step 6 of 17 - Configure the View Control for the "EmployeesList" Application Page.
Select Data Source : Domino View Data Source : Domino View Application: © Current sat.nsf © Qther View: EmployeeView Data source name: view1	View control : DataView
< <u>B</u> ack Next > Einish Cancel	< Back Next > Einish Cancel

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Configure specific options for each page type

- Document Viewer
 - Define a data source
 - Configure the labels, fields and controls for this document

Step 8 of 17 - Configur Page.	tion Wizard e the Data Source for the "Employee" Application		(1) Step 9 of 16 - Co	plication Wizard nfigure the Fields for the "	Employee" Application F	Page
Select Data Source : Don	nino Document	-	Field	Label	Control	Reset
Data Source: Domino I	Document		V Name	Name:	Edit Box	
Annlingtion			✓ Title	Title:	Edit Box	Deselect All
Application:			Dob	Date of birth:	Date only	Edit
Current	saturisi		✓ Desc	Description:	Rich Text	Move Up
Other						more op
Eorm:	EmployeeForm	• 🔷				Move Down
Data source name:	document1					
Default action:	Create document	•				
Parent id: (for responses only)		◆ ·				
Document id:		<	1			
Run form validation:		•				
	< Pack Next > Einich	Cruzzl				

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Single Page Application Wizard What does it produce?

 When Finish is clicked the configured Single Page Application control is added to the XPage and Custom Controls are created, if any

Applications $\equiv = = $	🐞 sat.nsf - Forms 🗙 😣 m_mobile - XPage 🗙
🗅 • 📔 🕾	
→ ^{sat}	Single Page Application
Forms	Application Page
TTT Views	MainMenu
📄 Folders	
😫 XPages	Outline item 1
🔠 m_mobile	Outmentern i
Custom Controls	Outline item 2
😁 ccEmployee	Outline item 3
😁 ccEmployeesList	
😁 ccMainMenu	Application Page 🔟
😁 ccReadme	
💾 ccTask	My Employees 🐿
💾 ccTaskList	
Framesets	Current Retired
Pages	Tab Bar 🔛 Current Keured

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Preview your mobile application

 The Wizard outputs a fully functional mobile application, capable of CRUD, with the navigation between pages in place

Main Menu	Main Menu My Employees	New	Employees Employee
My Employees	Current Retired		Name: Bob Alexander
My Tasks	Bob Alexander	>	Title: Programmer
Readme	Fred O'Neill	>	Date of birth: Jul 12, 1973
	Michael Murphy	>	Description: Team Lead
	Brian McDonnell	>	

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- Produces a fully-functional well-structured mobile app, capable of CRUD operations, without requiring expertise in mobile design, XPages mechanics or XSP markup specifics
- Implements Single Page Application design pattern (aka Single Page Interface)
 - Optimal startup-time, fast view switching, quick page navigation, request minimization
- Enforces XPages Mobile best practices:
 - Uses Custom Controls for each Application Page
 - Uses most mobile-friendly XPages controls like Data View, Form Table etc
 - Provides "Back" button and other app navigation options
- Supports bleeding edge features like infiniteScroll
- Designed with Future Extensibility in mind
 - More data sources may be supported in future (for enterprise and social data)
 - Options in place to support other controls for documents and document collections.

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Creating your own Designer Wizard

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Creating a Designer Wizard

- This section of the presentation is aimed at advanced XPages developers that create and deploy their own XPages controls.
- Prerequisites
 - You know how to create an XPages control
 - http://www-10.lotus.com/ldd/ddwiki.nsf/dx/Creating_a_Java_Control_in_an_NSF
 - You know how to package the control in an XPages library
 - http://www-10.lotus.com/ldd/ddwiki.nsf/dx/Creating_an_XPages_Library
 - You know how to deploy an XPages library to Designer and Domino Server
 - http://www-10.lotus.com/ldd/ddwiki.nsf/dx/Installing_an_XPages_Library_into_Designer
 - http://www-10.lotus.com/ldd/ddwiki.nsf/dx/Deploying_XPage_Libraries

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Creating a Designer Wizard Overview

- The target control must be contributed to Designer by an XPages library (plugin)
 - A Wizard cannot be implemented for a control that resides in an NSF
- To create a Wizard we must create a separate Designer "tooling" plugin for our control
 - If we package the Wizard in the same plugin as the control then we can't deploy the control to a Domino Server as it will have dependencies on Designer plugins that don't exist on the Server
- The tooling plugin must contribute to the "com.ibm.designer.domino.xsp.editor.component" extension point.
 - This allows us to specify a "drop action" for our control
- We use the Java perspective in Designer to create plugins

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Creating a Designer Wizard Fundamentals

- By intercepting the Drop Action, we can display our Wizard when the control is dragged onto an XPage
- We then have direct access to the XSP root element for the control
- Depending on the options selected by the user in the Wizard, we can then add/modify the attributes of the root element and add child elements if required
- This gives us complete control over the final XSP markup that is placed on the XPage for the control

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2		Select	
Single Page Application	Core Controls		
) Step 1 of 1 - Configure the	pplication.	ls	
		🗁 Data Access	
News	T	👝 Dojo Form	
Name	туре	New 🗁 Dojo Layout	
		Delete 🔁 Extension Library	
		E-dit	
		🗁 Mobile	
		💷 Application Pa	ge
		💷 Page Heading	
		💷 Rounded List	
Create a Custom Control	e ⊡∞ Rounded List It	em	
	<	drop action	
		💷 Tab Bar	
		Tab Bar Button	1
< B	ack Next > Finish	Cancel 💷 Toggle Switch	

Creating a Designer Wizard Demo - Background

- For demo purposes I'm using the control from the Mastering XPages book, Chapter 12 XPages Extensibility. This chapter shows how to create an XPages control in an NSF
- The control is called MXPD Spinner. I've taken this control and packaged it in an XPages library (plugin), so that it can be used across multiple NSFs and deployed to my domino Server. This, of course, also allows me to create a Wizard for the control.
- The control implements a simple spinner consisting of a text box and two buttons



 In the demo I will create a Wizard for the MXPD Spinner that will allow it to be configured as it's being dropped onto the XPage

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Creating a Designer Wizard

Demo - Create a new tooling plugin

- The first thing to do is to create a new MXPD "tooling" plugin for our control
 - com.acme.mxpd.tooling
- Add the following dependencies
 - com.ibm.commons
 - com.ibm.xsp.core
 - org.eclipse.jface
 - com.ibm.designer.domino.xsp.editor
 - com.ibm.designer.domino.ide.resources
 - com.ibm.xsp.extlib.designer.tooling
- Add the plugin to the "com.acme.mxpd.feature" feature so that it can be installed to Designer

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Creating a Designer Wizard

Demo - Create the extension

Create a Designer extension in "plugin.xml" so that we can intercept the Drop Action

<extension point="com.ibm.designer.domino.xsp.editor.component">
<components
id="Acme Controls"
schemaUri="http://www.acme.com/xsp">
<component tagName="uiSpinner">
<paletteltem
action="com.acme.mxpd.tooling.MxpdDropAction"
label="MXPD Spinner"
visible="true">
</paletteltem>
</components>
</components>
</extension>

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Creating a Designer Wizard Demo - Create the Drop Action Class

It must extend the XpagesPaletteDropActionDelegate class and override the createElement function

public class MxpdDropAction extends XpagesPaletteDropActionDelegate {

@Override
protected Element createElement(Document doc, String prefix) {
 Shell shell = getControl().getShell();

// Create the base element
Element element = super.createElement(doc, prefix);

// Launch the Wizard Dialog

WizardDialog dialog = new WizardDialog(shell, new MxpdWizard(shell, element, getDesignerProject().getFacesRegistry())); if (WizardDialog.OK != dialog.open()) {

return null;

return element;

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1

Creating a Designer Wizard Demo - Create the Wizard class

It must extend the standard jface Wizard class

public class MxpdWizard extends Wizard {

```
private Element rootEl;
private FacesRegistry facesRegistry;
public MxpdWizard(Shell shell, Element rootEl, FacesRegistry facesRegistry) {
    super();
    this.rootEl = rootEl;
    this.facesRegistry = facesRegistry;
}
@Override
public boolean performFinish() {
    return false;
```

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}

Creating a Designer Wizard Demo – Flesh out the Wizard with pages

Override the addPages method to add our Wizard Pages

private MxpdWizardPageOptions optionsPage = new MxpdWizardPageOptions(WIZARD_TITLE); private MxpdWizardPageSteps stepsPage = new MxpdWizardPageSteps(WIZARD_TITLE);

@Override
public void addPages() {
 addPage(optionsPage);
 addPage(stepsPage);
}

- Create the classes for two our Wizard Pages, they must extend the jface WizardPage class. These
 Wizard Pages add SWT UI controls to the Wizard in the overridden createControl function
 - MxpdWizardPageOptions
 - MxpdWizardPageSteps

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Creating a Designer Wizard Demo – Generate the markup

 Create a generateMarkup function and call it from the *performFinish* method. Use Designer APIs to manipulate the W3C DOM element and augment the XSP markup to be placed onto the XPage

private void generateMarkup() {

Document doc = rootElement.getOwnerDocument();

// Set main properties

FormModelUtil.setAttribute(rootElement, "max", optionsPage.getMax()); FormModelUtil.setAttribute(rootElement, "min", optionsPage.getMin()); FormModelUtil.setAttribute(rootElement, "value", optionsPage.getInitial());

// Complex property - Create child elements

Element stepSizes = FormModelUtil.createElement(doc, facesRegistry, NAMESPACE, "this.stepSizes"); Element largeSmallStep = FormModelUtil.createElement(doc, facesRegistry, NAMESPACE, "largeSmallStep");

// Set complex attrs

FormModelUtil.setAttribute(largeSmallStep, "largeStep", stepsPage.getLargeStep()); FormModelUtil.setAttribute(largeSmallStep, "smallStep", stepsPage.getSmallStep());

// Add child elements

stepSizes.appendChild(largeSmallStep);
rootElement.appendChild(stepSizes);

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Creating a Designer Wizard Why create wizards

- Wizards simplify complex development tasks and save time
 - The Single Page Application Wizard produces a feature rich application without any coding experience required
 - It assembles and configures multiple controls
 - It creates custom controls
 - It enforces best practice design patterns
 - The source code is freely available on OpenNTF

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Build Automation with Headless Designer

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Headless Designer (9.0.1 Tech Preview)

Making Designer work for you when you're not IN work!

- Problem
 - You've a group of developers working on an application
 - They're using a source code repository
 - You want to produce a daily build of the application (NSF)
 - HOW?
- Solution
 - Headless Designer to the rescue!
 - Use a Task Scheduler to execute a daily script
 - This script takes a snapshot of the source repository and then invokes Headless Designer to produce the NSF

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Headless Designer * What is it?

- Headless Designer is a command line build system.
 - Its main function is to produce an NSF from an "on disk" project
- The command line build can be run in two ways
 - Single command
 - Suitable for simple use cases. ie. Building a single NSF
 - Command file
 - Enables more complex use cases involving multiple NSF builds with dependancies

(* 9.0.1 Tech Preview)

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Headless Designer * notes.ini

- To allow Designer to be invoked "headlessly" there is a setting in "notes.ini"
 - DESIGNER_AUTO_ENABLED=true

(* 9.0.1 Tech Preview)

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Headless Designer * Single command

- The single command has the format:
 - designer.exe -RPARAMS -vmargs -Dcom.ibm.designer.cmd=<single command>
- The single command is made up of a number of comma separated components, and is contained within double quotes
 - "<clean>,<exit>,<file name>,<job name>,<file path>,<file name>"
 - clean: true/false
 - exit: true/false
 - file name: The name of the NSF/NTF to be created. If no file extension if included then an NSF will be created.
 - job name: the job to be run
 - file path: the path to the .project file of the "on-disk" project to be built
 - (* 9.0.1 Tech Preview)

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Headless Designer * Single command

- Example:
 - designer.exe -RPARAMS -console -vmargs -Dcom.ibm.designer.cmd="true,true,Discussion.nsf,importandbuild, C:\XPageApps\Discussion\.project,Discussion.nsf"



(* 9.0.1 Tech Preview)

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Headless Designer * Command file

- For multiple commands, it is possible to pass a file path, as a Java property, to the command line build.
 - designer -RPARAMS -vmargs -Dcom.ibm.designer.cmd.file=<path to command file>
- This file contains one command per line, example:

```
config,true,true
importandbuild,C:\test\XPagesExt\.project,testXPages
wait,testXPages,20
importandbuild,C:\test\XPagesSBT\.project,testSBT
wait,testSBT,20
clean
exit
```

(* 9.0.1 Tech Preview)

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Headless Designer * Command file jobs

- importandbuild <on disk project path> <nsf name>
 - imports the "on-disk" project, creates the NSF, and begins the association. Processing
 of the next job does not wait for the sync or build to finish
- wait <project name> <# of retries>
 - Waits for the given project to complete all build or sync operations
- config <stop on error true/false> < exit on error true/false>
 - allows the configuring of some properties that control operation
- clean
 - deletes all projects created so far in this execution. Does NOT delete the project contents
- exit [# milli delay] [restart-true/false] [resume true/false]
 - Exits Designer, restart will restart Designer, and resume will continue processing the command file if there are commands after this exit command

(* 9.0.1 Tech Preview)

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Headless Designer * Update site job **

- Advanced job to be used when the NSF has a dependancy on one or more update sites
 - Eliminates the need to manually install update sites
- updatemanagerjob -command <cmd> [-from jar:file:<updatesite>] -to file:<dest> -featureId <feature> -version <ver>
 - cmd: install / enable / disable / uninstall
 - updatesite: path to updatesite zip file (only for install)
 - dest : destination path, normally notes workspace
 - feature: feature to act on
 - ver: version of feature to act on
- Example:
 - updatemanagerjob,-command install -from jar:file:C:/updatesite.zip!/ -to file:C:/Notes/Data/workspace/applications -featureId com.ibm.sbt.domino.playground.feature -version 1.0.0.20131121-0623
 - (* 9.0.1 Tech Preview)
 - (** This feature is NOT in version 9.0.1 but is intended for future release)

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Headless Designer * Scripting and Scheduling

Sample Script File: headless.bat

cd Notes

start /wait designer.exe -RPARAMS -console -vmargs -D%command%=%build%

- %command%: com.ibm.designer.cmd.filecom.ibm.designer.cmd.file
- %build%: path to command file
- Scheduling
 - Use a Task Scheduler to invoke the script on a periodic basis

	Trigger: Action:	Daily; At 11:31 every day Start a program; c:\headless.bat
	Open the I When you clie	Properties dialog for this task when I click Finish ck Finish, the new task will be created and added to your Windows schedule.
(* 9.0.1 Tech Preview)		< Back Finish Cancel

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Resources

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Technical Education

- IBM Press Books and eBooks
 - Three major publications over the past two years
 - All available for evaluation in the bookstore in the Solutions Expo







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Technical Education

- Coming very soon …
- Mastering XPages 2nd Edition
 - Based on Notes/Domino 9.0.1
 - 4 new chapters
 - Advanced Performance/Scalability
 - Mobile Application Development
 - Deep Dive on Debugging
 - All About Application Layout
 - Comprehensive updates to all preexisting 1st edition content
 - Hardcover
 - ~500 pages of new content
 - ~1200 pages total

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Mastering XPages

A Step-by-Step Guide to XPages Application Development and the XSP Language

Second Edition

Martin Donnelly • Mark Wallace • Tony McGuckin



Lotus Notes - Das ungeschlagene Tool der Zukunft seit fast 20 Jahren

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More Information – General

- For all information on XPages head to Xpages.info http://xpages.info/XPagesHome.nsf/Home.xsp
- The Notes Domino Application Development Wiki http://www-10.lotus.com/ldd/ddwiki.nsf
- Free XPages snippets from the community http://openntf.org/XSnippets.nsf/home.xsp
- And don't forget the XPages books from IBM Press http://www.ibmpressbooks.com/search/index.asp?query=xpages
- Learning Roadmaps
 - New Developers
 - Experienced Developers

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More Information – Summary

- XPages.info One Stop Shopping for XPages http://xpages.info
- XPages Forum Got Questions, Need Answers? http://xpages.info/forum
- OpenNTF Open Source Community http://www.openntf.org
- Domino Application Development Wiki http://www.lotus.com/ldd/ddwiki.nsf
- XPages Blog http://xpagesblog.com



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More Information – Training

- TLCC Classes http://www.tlcc.com/admin/tlccsite.nsf/DeveloperView.xsp
 - ND85XPGS Developing XPages using Domino Designer 8.5
 - ND85XPG2 XPages Development 2 for Notes and Domino 8.5
 - ND85XJSC JavaScript for XPages Development (8.5)
 - XP85MOBL Mobile XPages Development for Domino 8.5
- IBM Classes http://www-304.ibm.com/jct03001c/services/learning/ites.wss/zz/en?pageType=tp_search
 - D8L51 Fundamentals of IBM Lotus Domino 8.5.1 Application Development
 - D8L53 Developing IBM Lotus Domino 8.5.2 Applications: Intermediate XPage Design
 - D8L54 Developing IBM Lotus Domino 8.5.2 Applications: Advanced XPage Design
 - D8L55 Introduction to IBM Lotus Domino 8.5 XPages
 - D8L56 Modernizing IBM Lotus Domino 8.5.2 Applications
 - D8P51 Fundamentals of IBM Lotus Domino 8.5.1 Application Development (SPVC)
 - D8P53 Developing IBM Lotus Domino 8.5.2 Applications: Intermediate XPage Design (SPVC)
 - D8P54 Developing IBM Lotus Domino 8.5.2 Applications: Advanced XPage Design (SPVC)
 - D8P55 Introduction to IBM Lotus Domino 8.5 Xpages (SPVC)
 - D8P56 Modernizing IBM Lotus Domino 8.5.2 Applications (SPVC)
 - D8S44 Developing XPages using Domino Designer 8.5
 - D8S61 XPage Development 2 for Notes and Domino 8.5
 - D8S60 XPages for Notes and Domino 8.5 Package
 - D8S46 XPages and JavaScript for Domino 8.5 Package

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More Information

- IBM Certification
 - IBM Certified Application Developer Lotus Notes and Domino 8.5 http://www-03.ibm.com/certify/certs/14003105.shtml
 - IBM Certified Advanced Application Developer Lotus Notes and Domino 8.5 http://www-03.ibm.com/certify/certs/14003205.shtml
 - Test LOT-922: Developing IBM Lotus Domino 8.5.2 Applications: Advanced XPage Design http://www-03.ibm.com/certify/tests/ovrL922.shtml
- Mobile Design Info
 - Mobile Web Application Best Practices http://www.w3.org/TR/mwabp/
 - SPA/SPI Pattern

http://en.wikipedia.org/wiki/Single-page_application

 The Single Page Interface Manifesto http://itsnat.sourceforge.net/php/spim/spi_manifesto_en.php

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Lotus Notes - Das ungeschlagene Tool der Zukunft seit fast 20 Jahren

Mobile Web Application Best Practices



Engage Online

- SocialBiz User Group socialbizug.org

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