

Lotus knows.

Smarter software for a Smarter Planet.

BP207

Make your XPage Apps “Pop!” with
CSS and Themes

Declan Lynch | Czarnowski Exhibit Services
David Leedy | notesin9.com



Declan Lynch

Lotus Notes Administrator and Developer.

Working in the IT industry for over 15 years and well known in the Lotus Community as a contributor to the open source movement with involvement in OpenNTF.org with releases like BlogSphere and the new XPages project called xTalk.

Declan is also the author of one of the first major learning resources for XPages with his 54 part 'Learning xPages' blog series.

<http://www.qtzar.com/blogs/qtzar.nsf/htdocs/LearningXPages.htm>



<http://twitter.com/qtzar>

David Leedy

Lotus Notes Developer and Administrator.

Working in the IT Industry since 1994. Primary Lotus Notes developer for a transportation company.

Created XPages Webinar for Lotus Education Online.

Producer of Notes in 9 - The original screencast dedicated specifically to all things Lotus Notes. Many of the 9 minute shows feature XPages tips and tricks.

<http://www.notesin9.com>

<http://www.lotusnotebook.com>



<http://twitter.com/DavidLeedy>

What this session is NOT.

- How To Write XPages Applications.

**But It Will Make Writing Them A
LOT Easier**

Agenda

- CSS Basics
- CSS Frameworks
 - Blueprint Framework
 - IBM oneUI Framework
- Using Themes In XPages Applications
 - Creating Your Own Extendable Themes
 - Extending the Built-In Themes
 - Creating your Own Server Based Themes
- XPages on Mobile Devices

CSS Basics

CSS Basics

- Cascading Style Sheets
 - Allows for separation of style from content
 - Markup Language to define the look of elements.
 - Uses a Box model
 - CSS can be used instead of tables to control the layout of your web pages.

```
p {  
  color: black;  
  background-color: yellow;  
  font-family: "Times New Roman";  
  font-size: 30px;  
}
```

This is a paragraph.

XPages CSS Basics

- CSS ID's
 - Used for UNIQUE elements on a web page
 - Denoted with a #

```
#myName {  
    text-align: center;  
    color:yellow;  
}
```


XPages CSS Basics

- Watchout!
 - In XPages you can use a custom control more than once on a page
 - ID's get changed as they render to the browser
- Before

| | | |
|--------------|--------|--------|
| Label | Name: | myName |
| Style | Label: | Label |
| Font | | |

- After

```
<span id="view:_id1:myName">Label</span>
```

XPages CSS Basics

- CSS Class
 - Can be used multiple times on a page
 - Commonly used to style multiple elements
 - Denoted with a .

```
.myName {  
    text-align: center;  
    color:yellow;  
}
```

The screenshot shows the design tool interface. On the left is a vertical menu with options: Label, Style, Font, Background, Margins, and All Properties. The 'Style' option is selected. The main area displays the text 'No custom formatting has been added.' Below this, there is a 'Class:' field containing 'myName' and a 'Styles:' list. The 'Styles:' list includes 'Recently used styles', 'Style sheets on page', 'forms.css', and '.xTalkForm'.

```
<span id="view:_id1:myName" class="myName">Label</span>
```

CSS FrameWorks

Why use a CSS Framework

- Speeds up Development
- Cross Browser Compatible
 - Already contains “Hacks” for certain browsers
- Helps in ensuring a common look and feel across applications
- Some, but not all, have good documentation
- Some have tools to help you build your layout.

- Examples

| | | |
|-----------------------|--------------------|------------------|
| Blueprint CSS | 960 Grid System | jQuery UI CSS |
| YUI Grids CSS (Yahoo) | Elements CSS | Elastic columns |
| oneUI | YAML CSS Framework | And many more... |

- Common Elements
 - Browser Reset Code
 - Grid system for Layout
 - Typography/Font tools

Disadvantages Of CSS Frameworks

- Your design is dependent on the framework
- You need to learn the framework
 - All frameworks are unique
- You may inherit bugs from the framework
- There may be code you will never use.
- Some frameworks might have restrictive licenses
- Not all frameworks are appropriate for XPages
 - Remember avoid id #

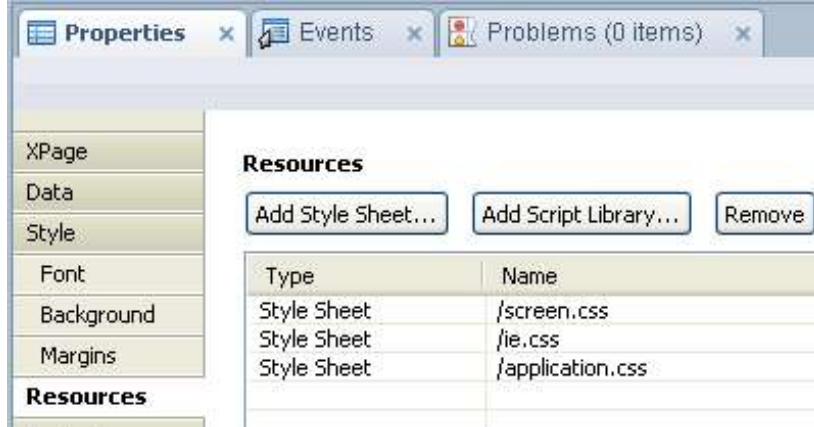
The Blueprint CSS Framework

- Contains Several Files

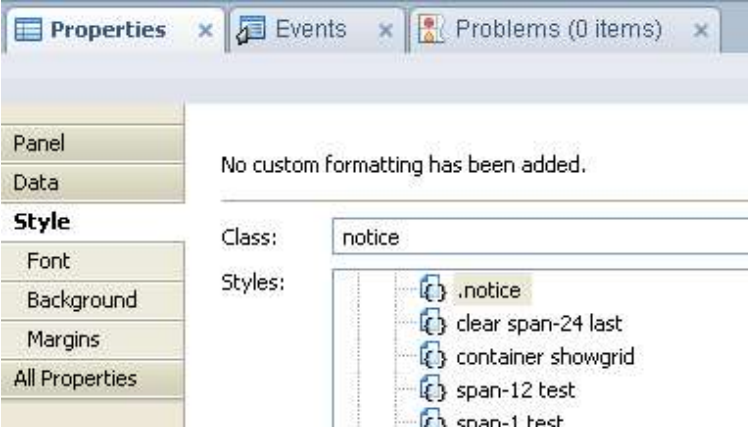
| | |
|-----------|----------------|
| reset.css | typography.css |
| grid.css | print.css |
| ie.css | forms.css |

- Comes with compressed versions
 - screen.css
 - Includes reset, grids, forms and typography
 - XPages can't use print.css because it can not specify media type.
- Create an “application.css” for custom CSS Code
- Add to pages or use a theme
 - We'll talk about Themes in a couple of minutes.

Adding to an Individual XPage

1. 

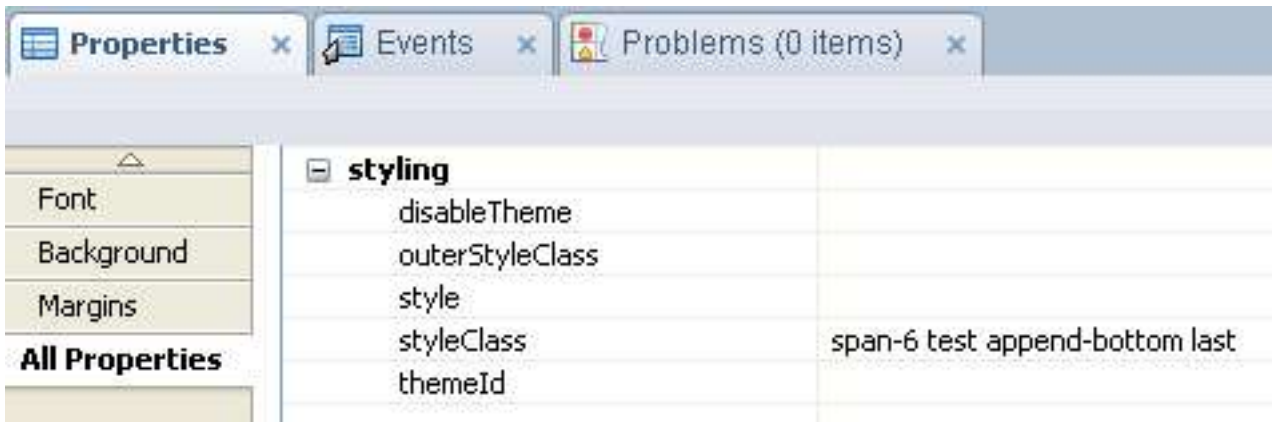
| Type | Name |
|-------------|------------------|
| Style Sheet | /screen.css |
| Style Sheet | /ie.css |
| Style Sheet | /application.css |

2. 

Class: notice

Styles:

- .notice
- clear span-24 last
- container showgrid
- span-12 test
- span-1 test

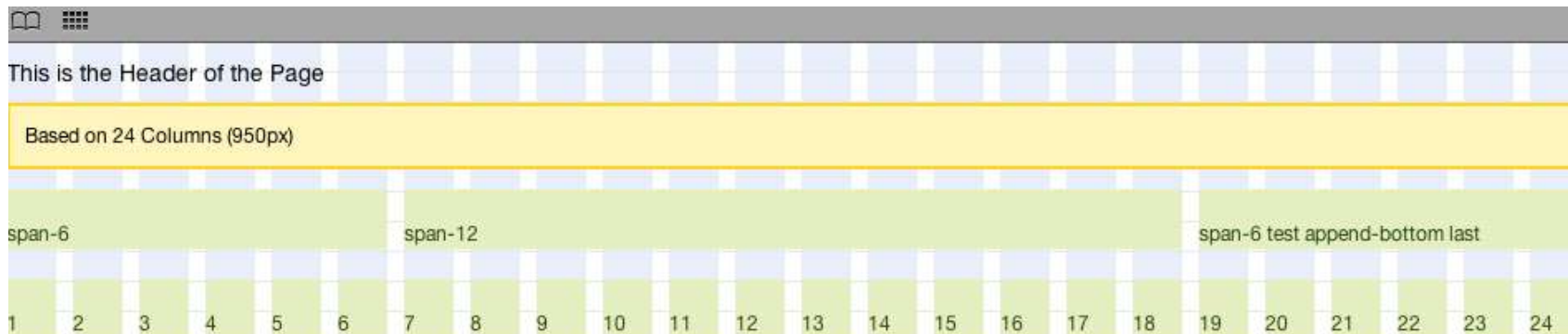
3. 

| Property | Value |
|-----------------|--------------------------------|
| disableTheme | |
| outerStyleClass | |
| style | |
| styleClass | span-6 test append-bottom last |
| themeId | |

The Blueprint Grids

- Allows easy placement of objects on the screen
- Defaults to 950px (24 Columns)
 - If you want a thinner site then use less columns/pixels
 - total width - (columns * 40) - 10
 - 20 columns = 790px
 - 22 columns = 870px
- Using the Grid inside XPages
 - Best Practice is to put each piece into a custom Control
 - Create a “container” DIV on an XPage then add your custom controls
 - Use class names on a Panel (DIV) to layout your page
 - span, append, prepend, push, pull
 - Example
 - span-6 will give you a block 6 columns wide

The Blueprint Grids



```
<xp:panel styleClass="container showgrid">
  <xp:panel styleClass="clear span-24 last" id="header">
    <xp:label value="This..." id="label1" styleClass="large loud "></xp:label>
    <xp:panel styleClass="notice"><xp:label id="subHead" styleClass="loud" value="B..."></xp:label></xp:panel>
  </xp:panel>

  <xp:panel styleClass="span-6 test">span-6</xp:panel>
  <xp:panel styleClass="span-12 test">span-12 </xp:panel>
  <xp:panel styleClass="span-6 test append-bottom last">span-6</xp:panel>
  <xp:panel styleClass="span-1 test">1</xp:panel>
  <xp:panel styleClass="span-1 test">2</xp:panel>
  ....
  <xp:panel styleClass="span-1 test last">24</xp:panel>
</xp:panel>
```

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The screenshot shows the IQJam website interface. At the top, there's a navigation bar with links for Home, Leader Board, Tags, and Help. Below this is a search bar and a Go button. The main content area is divided into three columns. The left column, titled 'All Questions', lists three questions with their respective answer counts and votes. The middle column, titled 'IQSpaces', lists various categories and their question counts. The right column, titled 'Welcome to IQJam', contains a welcome message and a 'Tags' section at the bottom.

IQJam - Recent Questions

http://iqjam.net/

You can run IQJam in your company on your Domino server. [Learn how...](#)

Username: Password: [Login](#) [Reset Password](#) | [Register](#)

[Home](#) | [Leader Board](#) | [Tags](#) | [Help](#) Search... [Go](#)

IQJam

There are 90 questions | 224 answers | 45 unanswered questions

All Questions

[Recent](#) | [Answered](#) | [Unanswered](#) | [Votes](#) | [Recent Answers](#)

<< < Page 1 > ...

1 answer
1 vote

DocLinks in Archive DB has to work

Domino Development / Client Development
Tagged Archive DocLinks
Shanmuga Priya Srinivasan - about 3 days ago

4 answers
-1 votes

How do you pronounce UNID?

Domino Development / Best Practices
Tagged UNID Acronym Pronunciation
Craig Wiseman - about 9 days ago
[Show Correct Answer...](#)

1 answer
0 votes

What happens when I bind a DataSource using JavaScript?

Domino Development / XPages
Tagged datasource bind
Peter Presnell - about 9 days ago

IQSpaces

All Questions (90)

- Domino Administration (13)
- Domino Development (38)
- IQJam (20)
- IdeaJam (3)
- Lotus Connections (2)
- Lotus Notes (7)
- Lotus Quickr (2)
- Lotus Sametime (3)
- Lotusphere (2)

Welcome to IQJam

IQJam is an Innovative Collaborative Question and Answer Community for the Enterprise

Let's face it, we all know that someone somewhere out there has the answer to a question or a problem that you have. The hard part is finding that someone. CEOs will always tell you that an organization's greatest asset is the cumulative knowledge of its employees.

IQJam helps you locate and harness the power of that knowledge with exceptional ease.

Latest Answers

Is there a specific port used for Xpages in Notes Client
Bruce Elgort - 1 day ago

Is there a specific port used for Xpages in Notes Client

Tags

The IBM oneUI Framework

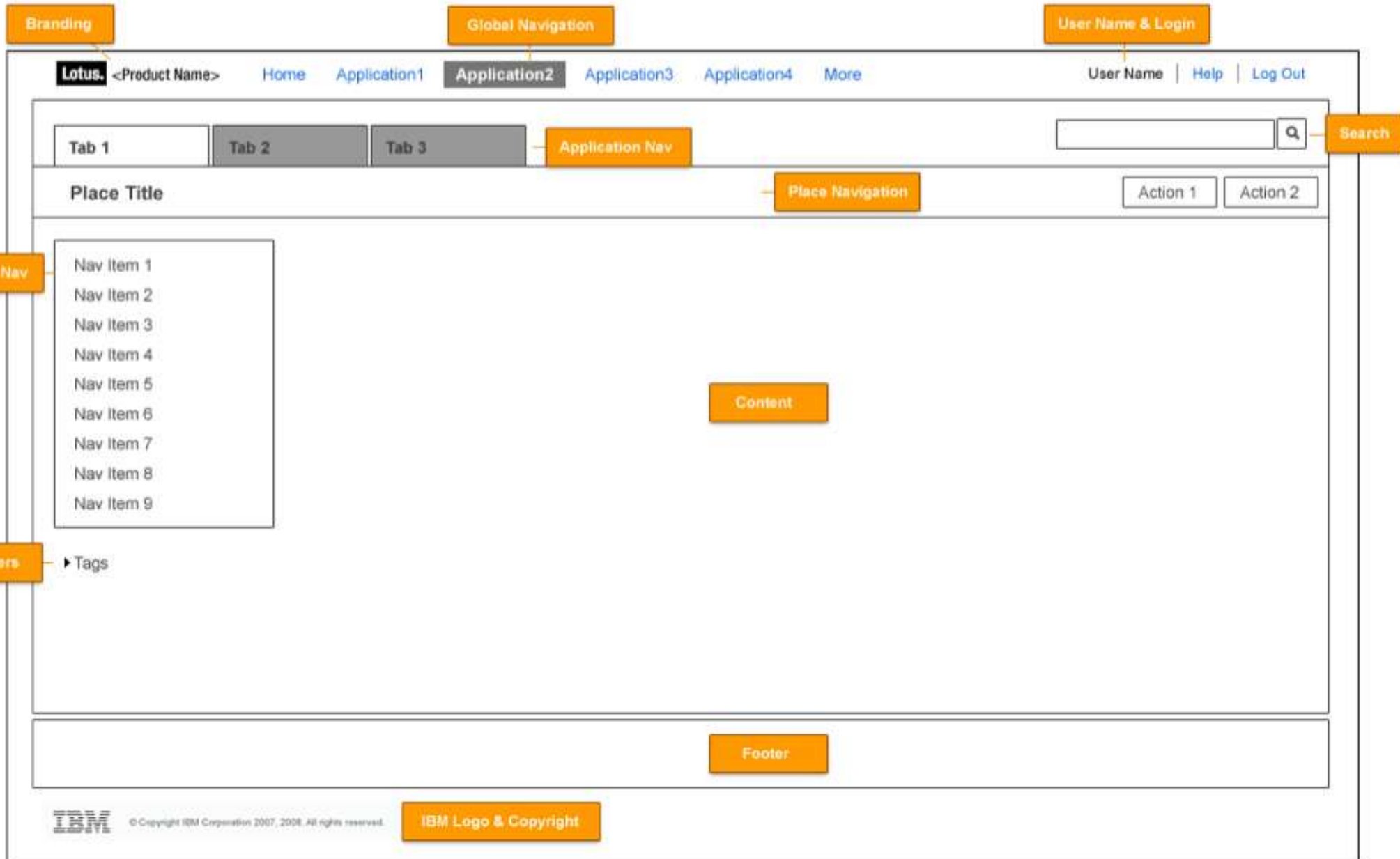
- Layout And Presentation Framework
- Used by IBM for all its modern web based products.
- Pros
 - Built-in layout features
 - Standard Look And Feel for all design elements
 - Lots of Example Apps using oneUI available on OpenNTF
- Cons
 - Not grid based.
 - Bigger framework requires more learning
- oneUI Version 2
 - Fully documented.
 - <http://www-12.lotus.com/ldd/doc/oneuidoc/docpublic/index.htm>
 - Comes in multiple color themes for some variation
 - Beta version already installed with Lotus Domino 8.5.1
 - 'Should' be fully incorporated into Domino 8.5.2 (not a guarantee)

The IBM oneUI Framework - Layout

```
<xp:panel styleClass="lotusFrame">  
  
<xp:panel styleClass="lotusBanner">Banner Info</xp:panel>  
<xp:panel styleClass="lotusTitleBar">Title Bar Info</xp:panel>  
<xp:panel styleClass="lotusPlaceBar">Place Bar Info</xp:panel>  
  
<xp:panel styleClass="lotusMain">  
  
    <xp:panel styleClass="lotusLeftCol">Left Side Bar</xp:panel>  
    <xp:panel styleClass="lotusRightCol">Right Side Bar</xp:panel>  
    <xp:panel styleClass="lotusContent">Main Page Content</xp:panel>  
  
</xp:panel>  
  
<xp:panel styleClass="lotusFooter">Footer Information</xp:panel>  
<xp:panel styleClass="lotusLegal">Legal Information</xp:panel>  
  
</xp:panel>
```

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Lotus. <Product Name> Home Application1 Application2 Application3 Pat Shani | Help | Logout

Tab1 Tab2 Tab3 Menu Item 1 Enter Keywords

Menu Item

Menu Item

Menu Item

Tags

Find [whatever]

- baby_boomers 14
- event_planning 103
- marketing 3
- operations 22
- product_rollout 57
- retail_trends 99
- strategy 6

View as [cloud](#) | [list](#) | [all](#)

xTalk : XPages Discussion Forums

Search...



xTalk Test Forums

Try out xTalk Here

| | Forum | Last Post | Threads | Posts |
|--|--|---|---------|-------|
| | Announcements This is a locked forum for announcements | Gravatar Support by Declan Sciolla-Lynch about 11 days ago | 3 | 3 |
| | Sandbox Test Forum Area | Looking good so far by Mike McGarel about 10 days ago | 2 | 6 |

Powered By xTalk : An OpenNTF Project By Declan Lynch.

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Tags

- [8.0.1](#)
- [851](#)
- [agent](#)
- [biltmore](#)
- [binding](#)
- [blackberry](#)
- [careers](#)
- [checkbox](#)
- [combobox](#)
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- [healthcare](#)
- [leproblem](#)
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- [lotuslegends](#)
- [lotosphere](#)
- [lotusscript](#)
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- [mobile](#)
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- [nfl](#)
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- [notes852](#)
- [notes9](#)
- [number](#)

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Blogs on BleedYellow.com

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- Getting the most out of your DAOS implementation** ☆ 0
Eugen Tarnow | Yesterday 1:22 PM | Comments (0) | Visits (20)
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Peter Presnell | Dec 16 | Tags: ssjs lotusscript | Comments (2) | Visits (291)
- Importing PDF Files into a Rich Text Field** ☆ 0
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- Binding a checkbox to a number field with valueChangeListener** ☆ 0

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Peter Presnell
☆ 0 💬 1
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Blog: You need Note...
George Paglia

Lotus Notes and Domino Application Development wiki

Home

- Add an article
- Wiki user name registration

Machine Translation

Select a language

Translate

Article views

- Alphabetical
- Recently added
- Recently edited
- Articles I created
- By author

Categories

- Configuring applications (1)
- Designing applications (58)
- Developing XPages Web applications (67)
- Developing applications (6)
- Developing composite applications (3)
- Developing traditional Web

What is this wiki?

This IBM product wiki provides a central, collaborative place to find and contribute deployment, usage, and troubleshooting information.

[Watch wiki demo on YouTube](#)



This community is for you to learn about Domino application development, contribute to its knowledge base, and collaborate with others. This wiki includes articles on using IBM® Domino® Designer™, XPages, DXL, programming with Java, JavaScript, and LotusScript, and other topics related to building world class solutions with Domino applications. In addition, this wiki will help you create and deploy Domino applications and contains application design guidelines and best practices for developing Web applications. We invite you to create new articles on these topics, or to expand our content to include samples and troubleshooting.

What information are you looking for?



Spotlight articles

Find hand-selected community articles, including interesting multi-media content, product news, or timely how-to information.

[Manipulating Design Elements with LotusScript \(or Java\)](#)



Product documentation

Looking for product documentation? Find the latest, most up-to-date documentation here.

- [Lotus Notes and Domino 8.x Information Center](#)
- [Lotus Domino Designer](#)



Learning center

Looking for courses or demos? Find them here.

- [Media gallery](#)
- [Tutorials](#)
- [Getting started](#)



More resources

Looking for support, other social networking sites, or more supplemental content? Find additional resources for supported versions and all user roles here.

- [Resources for developers](#)

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Lotus Quickr | **Places** | Files | Help | Log In

Places

Public Places | Usage Statistics

Public Places

(No Places Listed)

Show: **10** | 20 | 50 | 100 | All items per page | First | Previous | **Next** | Last

Tips

Create a place to bounce ideas with others and centralize project information.

Click on a place name to enter it.

Sort on places by title or owner.

Lotus Quickr
[Home](#)
[Select Time Zone](#)

Help
[Help](#)
[Technical Content](#)
[Best Practices Wiki](#)

About
[About](#)
[Lotus Quickr on ibm.com](#)

Lotus knows.

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Themes

XPages Themes

- Single Document Containing References to all your CSS Resources
 - Resource Sections Reference the CSS Files Used
 - Control Section Define What CSS Classes Are Applied To Specific Controls
- XML Based and Easy To Learn
 - Creating A new Theme Document prefills sample Content
- Can Extend Other Themes
 - `<theme extends="webstandard">`
 - Will automatically include all the Resource and Control definitions from that theme
 - Three built-in themes to extend
 - webstandard
 - oneUI
 - notes

Theme Resources - The Basics

- Can be fairly simple
 - Just reference internal CSS resources
- Or can be complex
 - Multiple CSS Resources
 - Internal
 - External
 - Specify client Side JavaScript Resources
 - Specify 'Rendered' properties on resources
 - Send certain CSS resources to certain web browsers

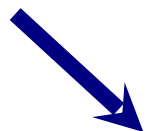
```
<resource>  
  <content-type>text/css</content-type>  
  <href>stylesheet.css</href>  
</resource>
```

Theme Resources - Complex Themes

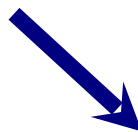
- Specify If A Resource Is Only Used When Dojo Controls Are detected.
 - `<resource dojoTheme="true">`
- Browser / Client Detection
 - `<resource rendered="{javascript:context.getUserAgent().isIE(0,6) == true}">`
 - `<resource rendered="{javascript:context.getUserAgent().isFirefox()}">`
 - `<resource rendered="{javascript:context.getUserAgent().isSafari()}">`
 - `<resource rendered="{javascript:context.isRunningContext('Notes')}">`
- Text Direction Detection
 - `<resource rendered="{javascript:context.isDirectionRTL()}">`
 - `<resource rendered="{javascript:context.isDirectionLTR()}">`
- Not Just For CSS
 - `<content-type>text/javascript</content-type>`
- Reference Server Based / External Files
 - `<href>/.ibmxspres/global/theme/oneui/iehacks.css</href>`
 - `<href>http://www.someserver.com/resources/application.css</href>`

Extending The Built-In Themes

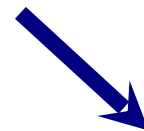
Server Based Theme



Application Theme



Page level CSS



Inline Styles

```
<theme extends="oneui">  
.....  
</theme>
```

Theme Controls - The Basics

- Theme Controls are used to define default values for properties.
 - mode="concat"
 - Will append the properties onto any existing properties.
 - mode="override"
 - Will override the properties with those defined in the control.
- Theme Control Names matchup with the types on controls on pages
 - or you can create your own Theme Control names
 - and then tell it what control to apply to using the themeID property

```
<!-- View Root (Page Body) -->
  <control>
    <name>ViewRoot</name>
    <property mode="concat">
      <name>styleClass</name>
      <value>xspView lotusui tundra</value>
    </property>
  </control>
```


Theme Controls - The Pager Control

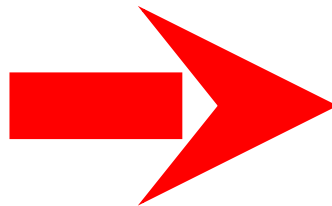
Control Names

Pager
PagerControl.Pager
PagerControl.Pager.First
PagerControl.Pager.Previous
PagerControl.Pager.Next
PagerControl.Pager.Last
PagerControl.Pager.Group
PagerControl.Pager.Status
PagerControl.Pager.Goto
PagerControl.Pager.Separator

```
<xp:pager id="pager1">  
  <xp:pagerControl  
    id="pagerControl1"  
    type="First">  
  </xp:pagerControl>  
  <xp:pagerControl  
    id="pagerControl2"  
    type="Previous">  
  </xp:pagerControl>  
  <xp:pagerControl  
    id="pagerControl3"  
    type="Next">  
  </xp:pagerControl>  
</xp:pager>
```

Theme Controls - Using Themeld's

Standard Stop Button
Cancel Operations



Standard Stop Button

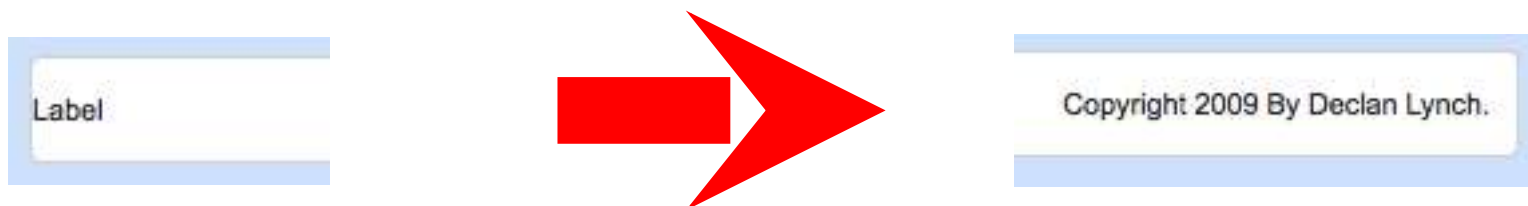
Cancel Operations

```
<control>
  <name>StdStopButton</name>
  <property mode="override">
    <name>styleClass</name>
    <value>appStopButton</value>
  </property>
</control>
```

| Properties | Events | Problems (0 items) |
|----------------|-----------------|--------------------|
| Link | shape | |
| Style | styling | |
| Font | disableTheme | |
| Background | outerStyleClass | |
| Margins | style | |
| All Properties | styleClass | |
| | themeld | StdStopButton |

```
<xp:link escape="true" text="Cancel Operations" id="link1" themeld="StdStopButton">
</xp:link>
```

Theme Controls - Not Just For CSS



```
<control>
  <name>legalInfo</name>
  <property mode="override">
    <name>value</name>
    <value>Copyright 2009 By Declan Lynch.</value>
  </property>
  <property mode="concat">
    <name>styleClass</name>
    <value>lotusRight</value>
  </property>
</control>
```

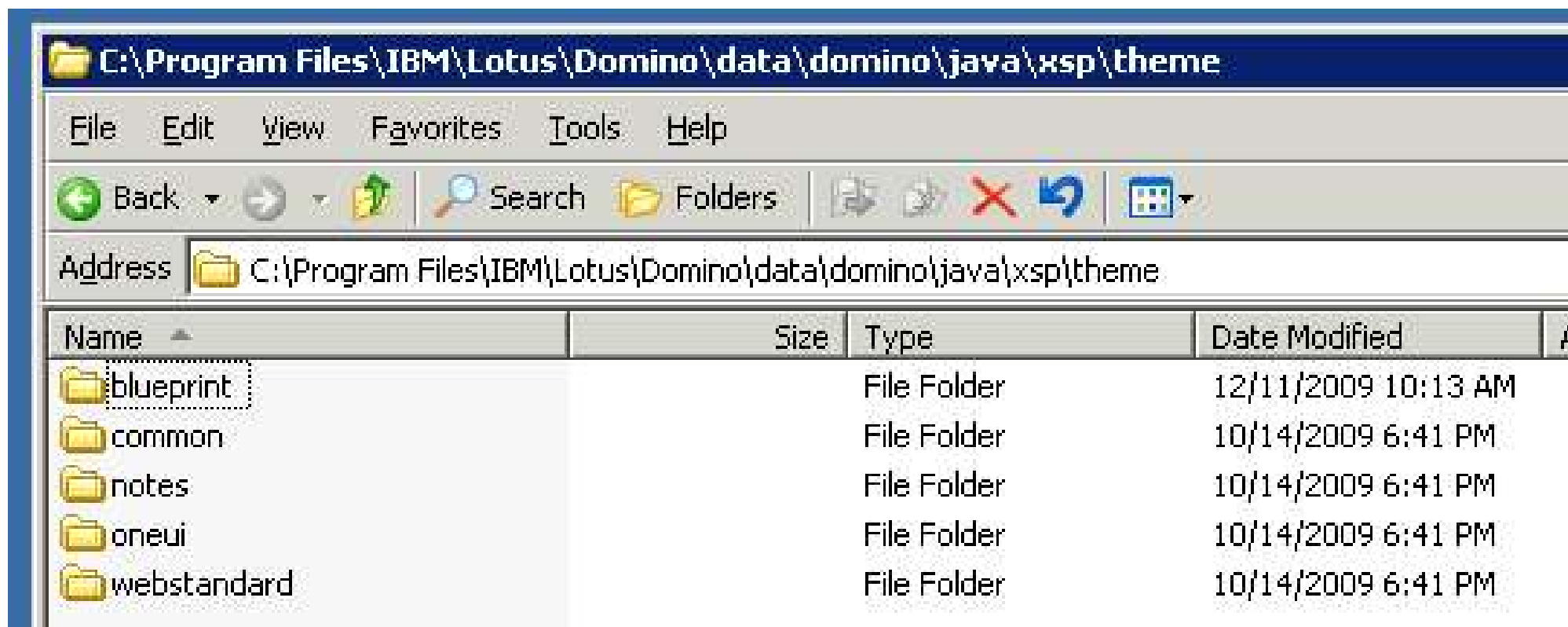
```
<xp:label value="Label" id="label1" themeld="legalInfo"></xp:label>
```

Creating Your Own Server Based Themes

- Pros
 - You can then extend the server based theme
 - Less files to store in the .NSF
 - Will ensure everybody is using the same corporate-wide style.
- Cons
 - You need to do the procedure on all your Domino servers.
 - Server based themes cannot be used by xPages in the Notes Client.
 - Maintenance Nightmare if your corporate theme changes a lot.

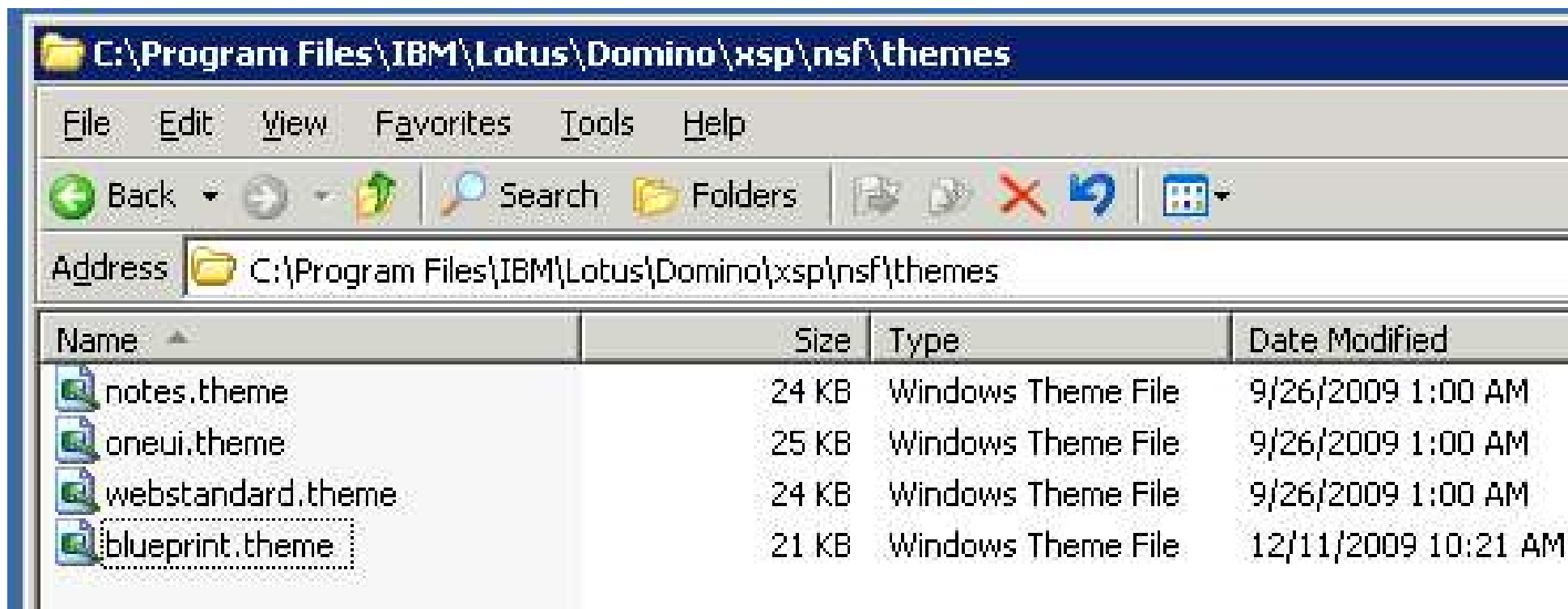
Creating Your Own Server Based Themes

- Upload your CSS files to the Domino server.
- Existing theme resources are in the data\domino\java\xsp\theme directory.
- Create a folder to store your CSS files and other theme resources.



Creating Your Own Server Based Themes

- Go to the Domino\xsp\nsf\themes directory
- Create a blank text file and name it after your new theme
- Make sure the file extension is .theme



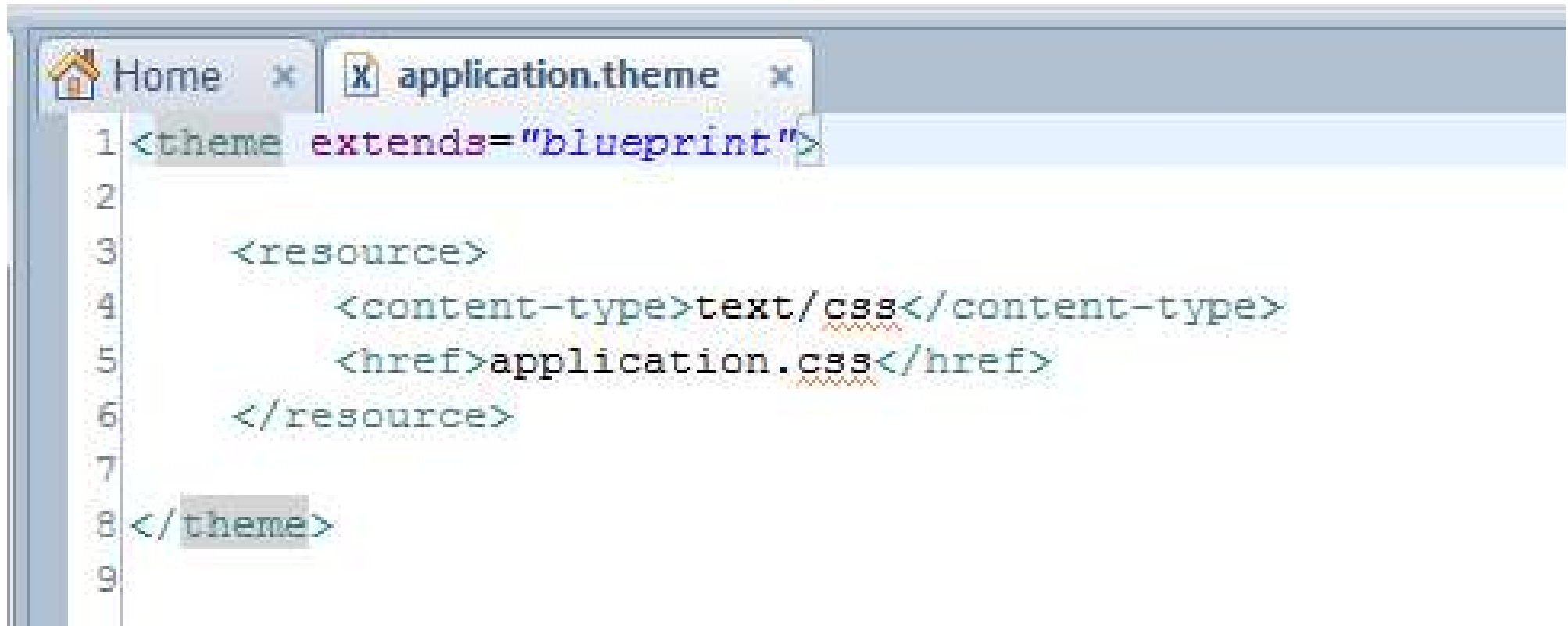
Creating Your Own Server Based Themes

- Open your new theme document in a text editor.
- Extend the existing 'webstandard' theme to automatically get all the basic xsp and dojo css resources that xPages needs.
- Add resources to reference your CSS files as required.

```
<theme extends="webstandard">
  <resource>
    <content-type>text/css</content-type>
    <href>/.ibmxspres/global/theme/blueprint/screen.css</href>
  </resource>
  <resource rendered="{javascript:context.isDirectionRTL()}">
    <content-type>text/css</content-type>
    <href>/.ibmxspres/global/theme/blueprint/plugins/rtl/screen.css</href>
  </resource>
  <resource rendered="{javascript:context.getUserAgent().isIE(0,6)}">
    <content-type>text/css</content-type>
    <href>/.ibmxspres/global/theme/blueprint/ie.css</href>
  </resource>
</theme>
```

Creating Your Own Server Based Themes

- You can now use your server based theme in your xPage applications.



The image shows a screenshot of a code editor window. The window has two tabs: 'Home' and 'application.theme'. The 'application.theme' tab is active and displays the following XML code:

```
1 <theme extends="blueprint">
2
3   <resource>
4     <content-type>text/css</content-type>
5     <href>application.css</href>
6   </resource>
7
8 </theme>
9
```


Mobile Devices

XPages On Mobile Devices

- detecting the browser type in the theme doc

```
<resource rendered="{javascript:context.getUserAgent().getUserAgent().match("iPhone")}">  
<content-type>text/css</content-type>  
<href>iPhone.css</href>  
</resource>
```

- Redirecting to a different page with custom css
 - In the BeforePageLoads event :

```
var uAgent = context.getUserAgent().getUserAgent();if (uAgent.match  
("iPhone") != null){ context.redirectToPage("/iPhone.xsp");}
```

- Or a combination of both methods.



XPages On Webkit Devices

- Web kit Browsers
 - iPhone, Droid, Palm Pre
- Meta Tags are your friend!
- `<meta name="viewport" content="width=device-width; initial-scale=1.0; maximum-scale=1.0; user-scalable=0;" />`
 - No Zooming, Look more like a native app, width set to screen size
- `<meta name="apple-mobile-web-app-capable" content="yes" />`
 - iPhone specific - hides Navigation
- `<meta name="apple-mobile-web-app-status-bar-style" content="black" />`
 - Apple Specific - Neatens up the status bar a little.
- `<link href="homepageicon.png" rel="apple-touch-icon" />`
 - HomePage Icon
- `<link rel="apple-touch-startup-image" href="startup.png" />`

Loading Page Screen

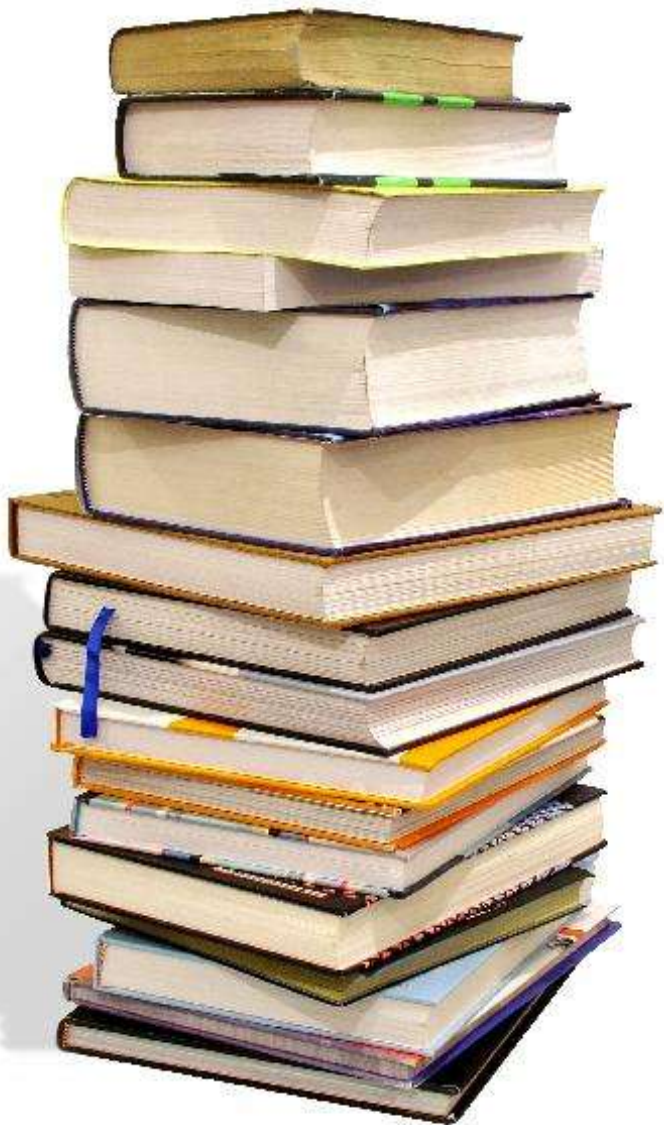


Related Sessions

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Recommended Reading

- Definitive CSS Book....
- Mark Hughes Website
 - <http://dominoextnd.blogspot.com/>
 - Lots of good iPhone information
- XPagesblog.com





Questions And Answers

And Don't Forget To Fill Out
Your Session Evaluation Forms

BP207 Make your XPage Apps “Pop!” with
CSS and Themes.

Declan Lynch & David Leedy

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