

Web Developer Toolkit for IBM Digital Experience

Open source Node.js-based tools for web developers and designers using IBM Digital Experience

Tools for working with:

- **Applications:** Script Portlets
- **Site designs:** Portal themes
- **Content designs:** Web Content Manager (WCM) Presentation Templates and Components



Using modern web development and design tools and technology with IBM Digital Experience

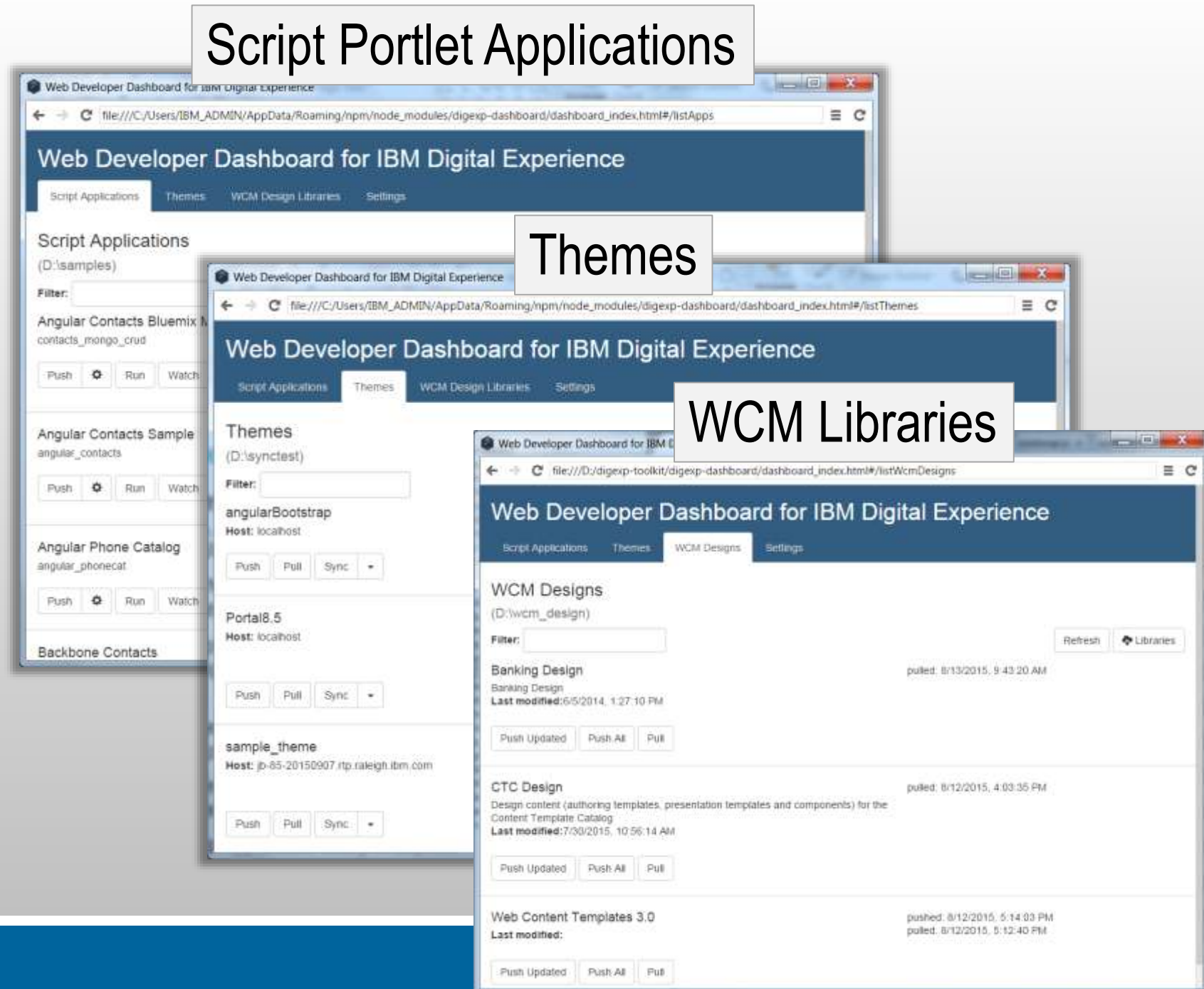
- Let web developers and designers use their preferred tools...
 - Editors, Node-based tools such as Bower/Grunt/gulp, JS/CSS compilers, test tools, source code management, etc.
- ...and their preferred technologies
 - HTML/JS, Angular/Backbone/etc., Bootstrap, LESS, Handlebars, etc.
- Make the integration with IBM Digital Experience easy and seamless
 - Work with local HTML/JS/etc. files using any editors and other tools, then automatically push to local or remote server

Web Developer Toolkit for IBM Digital Experience

- Runs on Windows/Mac/Linux using Node.js
- Provides a “Dashboard” UI for working with applications and designs
 - Manages push/pull/watch for synchronizing local files with server
 - Includes other useful tools such as a script application test server and tools for working with theme modules and profiles
- Lets designers work with WCM design artifacts locally as plain HTML and image files
 - Supports Presentation Templates and Components (HTML, Image, Style Sheet, Text)
 - Includes pull, push, and watch functions for moving files to/from server
 - Available from the Dashboard UI or using a command line interface

Web Developer Dashboard

- Work with Script Portlet applications, Themes, and WCM design elements in a simple UI
- Click to push or watch/sync applications and designs to a local or remote Portal server
- Use a simple UI to add and edit your theme modules and profiles
- Run script applications locally on a test server



Working with WCM designs: get elements as local HTML files

Web Developer Dashboard for IBM Digital Experience

Script Applications Themes WCM Design Libraries Settings

WCM Design Libraries (D:\wcm_design)

Filter:

DDC Sample RSS
Last modified: 9/25/2015, 9:50:42 AM

Push Updated Push All Pull Watch

Social Lists 1.0
Last modified: 9/25/2015, 9:51:26 AM

Push Updated Push All Pull Watch

Web Content Templates 3.0
Last modified: 9/25/2015, 9:51:03 AM

Refresh Get Libraries

1. Click Get Libraries

Choose Libraries to Add

- Banking Content
- Banking Design
- Blog Solo Template v70
- Blog Template v70
- CTC Content
- CTC Design
- CTC Process
- DDC Sample RSS ✓
- Portal Site

Close Download Selected Libraries

2. Select a library from the server

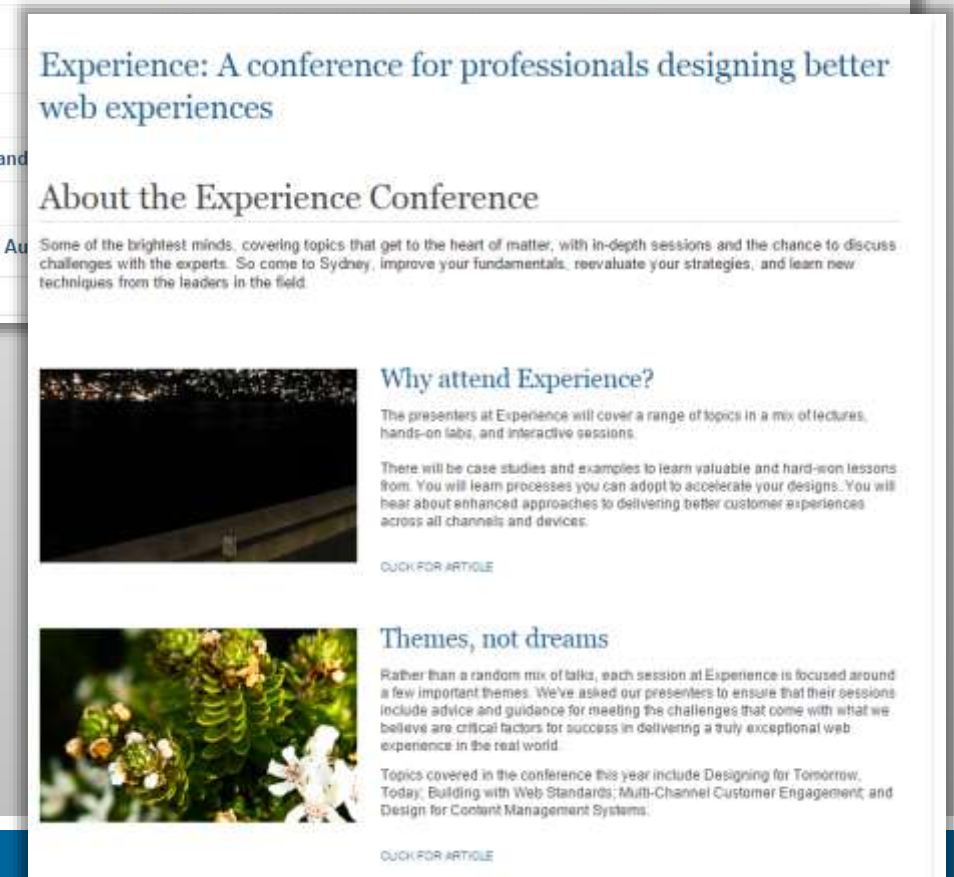
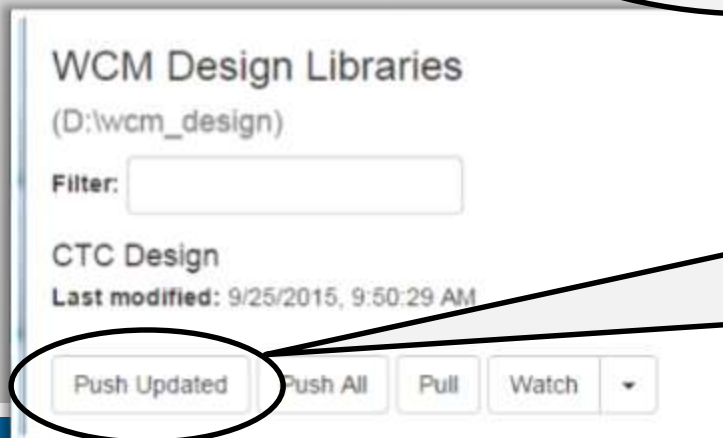
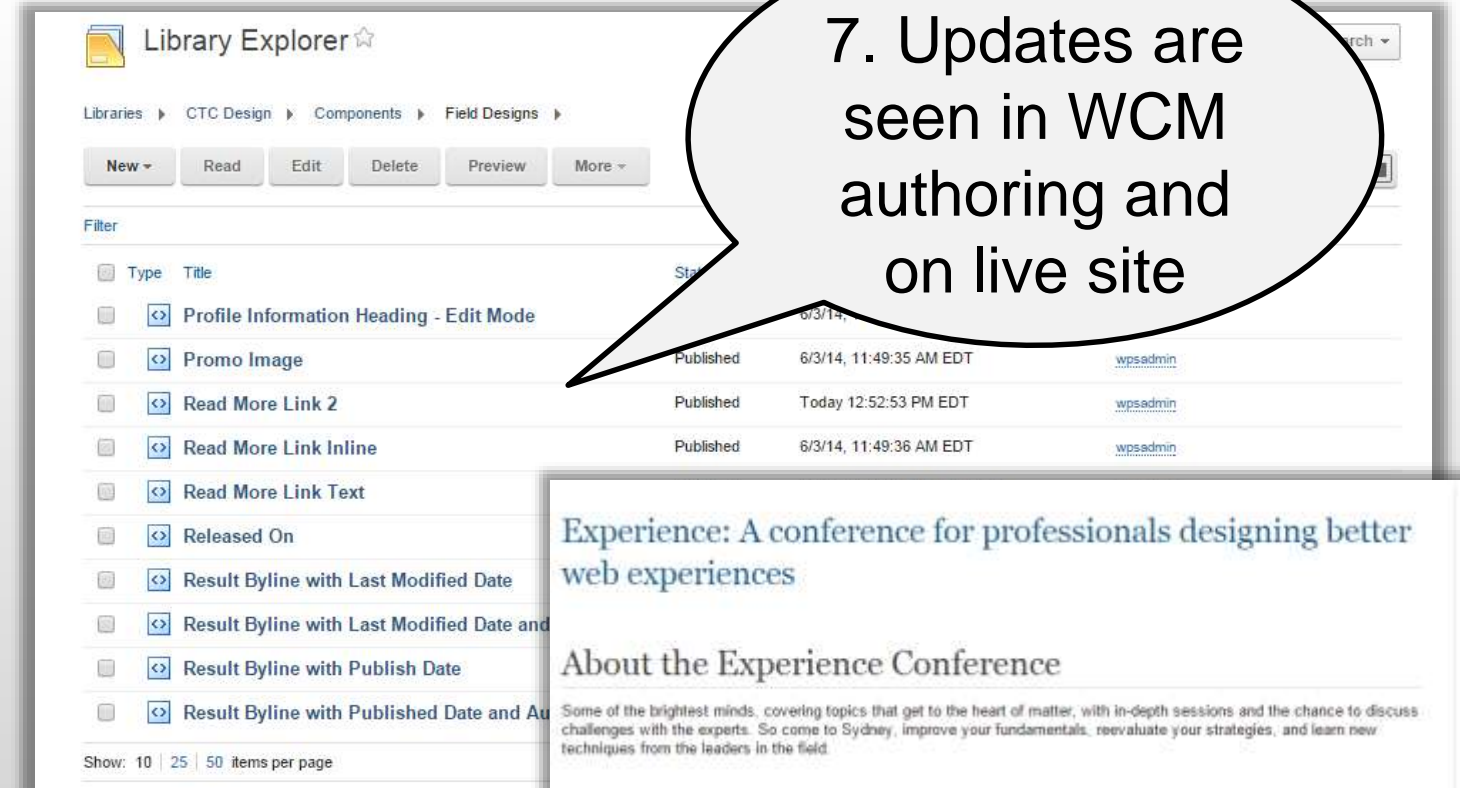
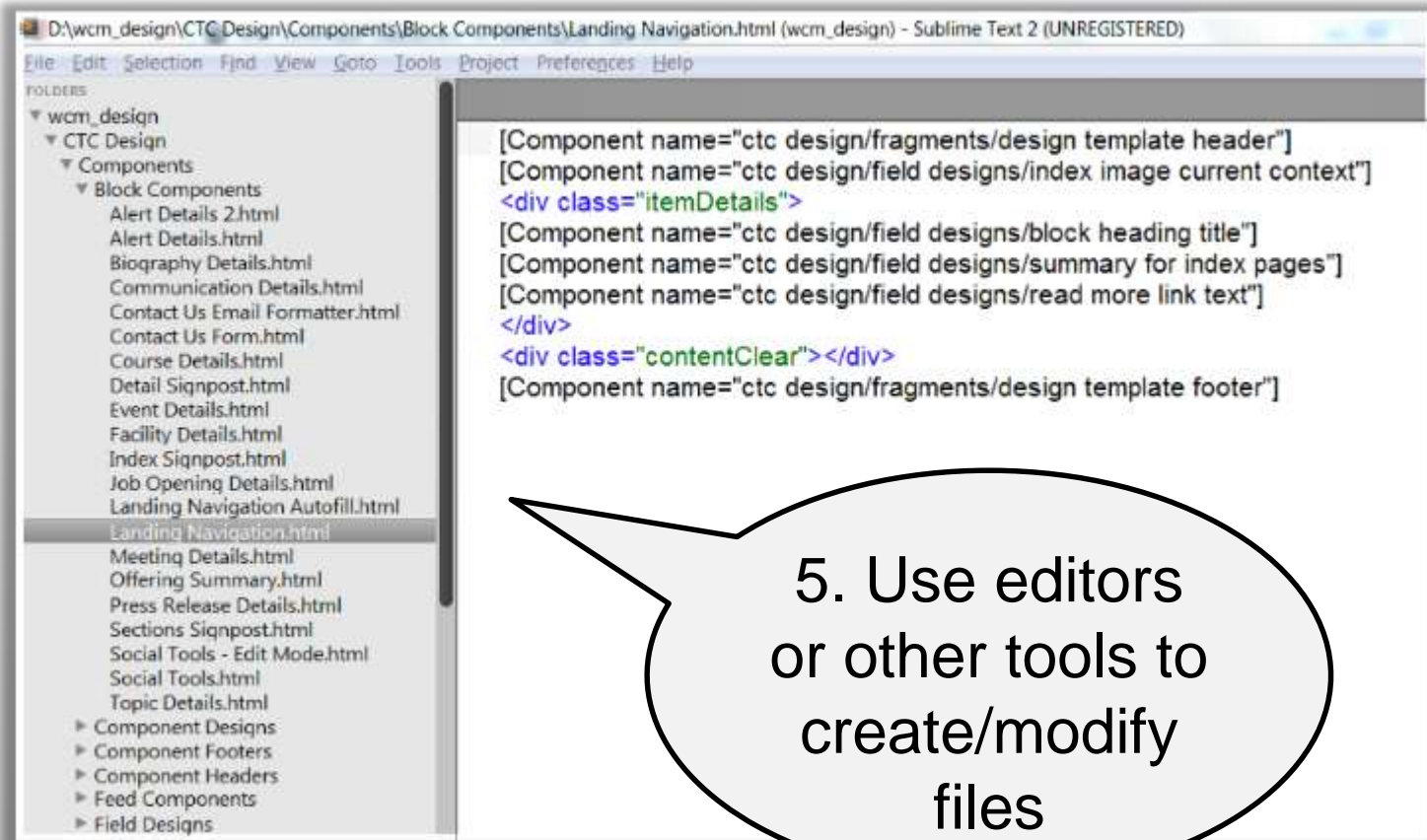
- CTC Design
 - Components
 - Block Components
 - Component Designs
 - Component Footers
 - Component Headers
 - Feed Components
 - Field Designs
 - Fragments
 - Icons
 - Inline Editing
 - List Components
 - List Presentation Components
 - Navigation Components
 - Presentation Templates
 - DDC Sample
 - Social Li
 - Web C

- Alert Details.html
- Biography Details.html
- Communication Details.html
- Contact Us Email Formatter.html
- Contact Us Form.html
- Course Details.html
- Detail Signpost.html
- Event Details.html
- Facility Details.html
- Index Signpost.html
- Job Opening Details.html
- Landing Navigation Autofill.html
- Landing Navigation.html
- Meeting Details.html
- Offering Summary.html
- Press Release Details.html

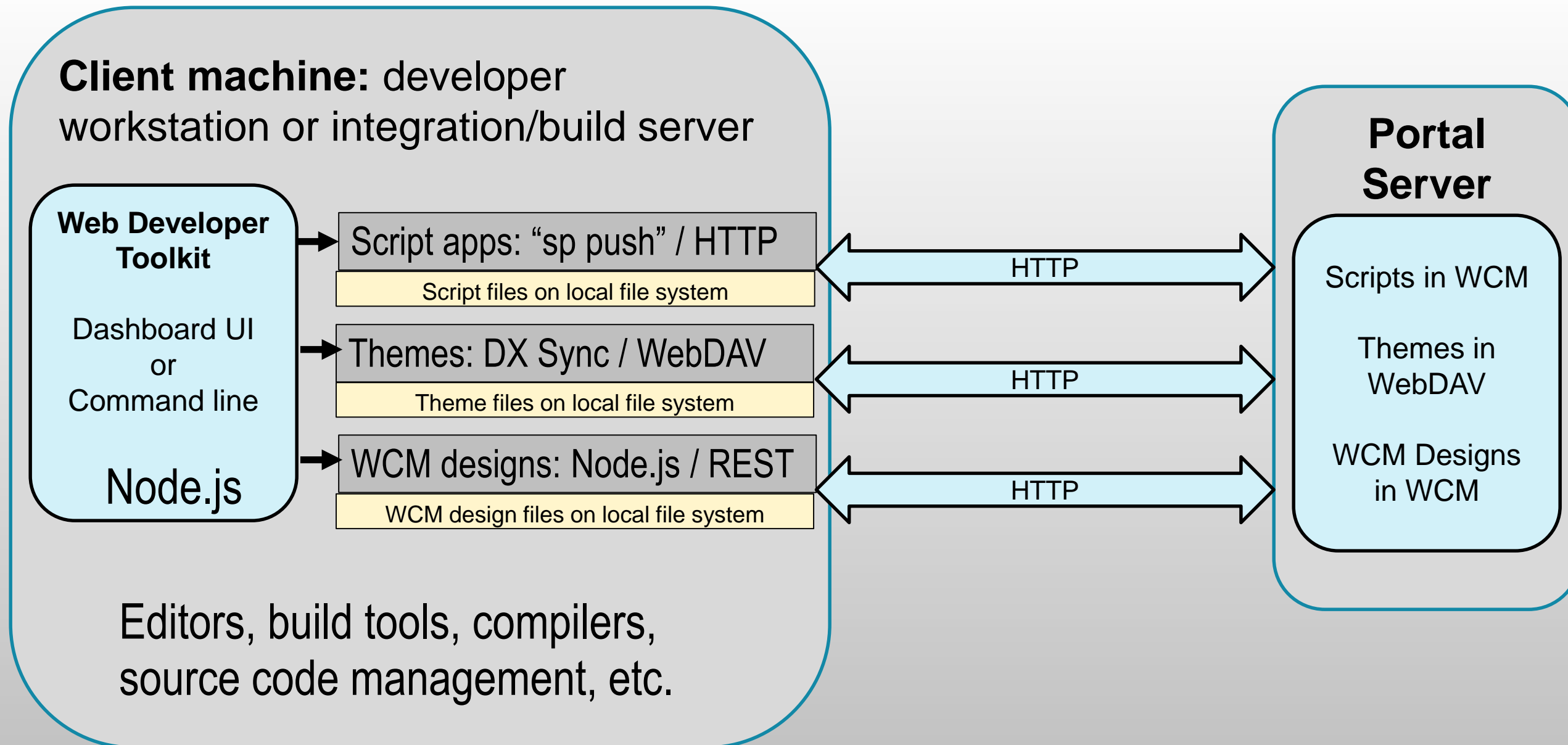
3. Library files are downloaded into folders for Components and Presentation Templates

4. Work with plain .html files, using any editors or other tools

Update or create new local files, then push updates to server



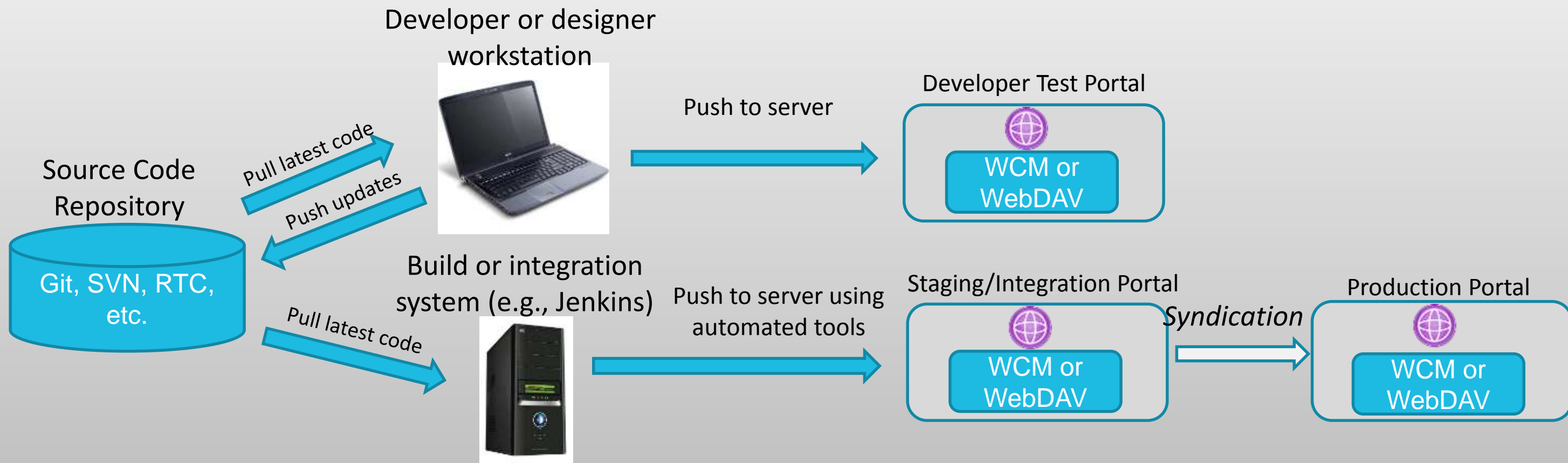
Architecture: uses DX File Sync for themes, “sp push” for script applications, and new Node-based support for WCM designs



Using source code management with applications and designs

Script applications, theme designs, and WCM designs can be maintained in a source code repository and automatically pushed to a development or staging server using a command line interface

Script applications and WCM designs can be syndicated from staging to production server



Support for WCM design elements

- Work with HTML Components and Presentation Templates as plain HTML files
- Also supports Image, Style Sheet, Text, and Rich Text components
- Can be used from command line or from Dashboard UI
- Available commands:
 - **Pull:** pulls Components and Presentation templates from a library into a local folder, maintaining folder structure and using plain .html/.png/.css/txt file for each
 - **Push Updated:** Pushes any changed or new (since the last “pull” or “push”) local files to the server
 - **Push All:** Pushes all local files to the server, even if unchanged
- For updates with push, only the contents are updated – metadata is unchanged
- Updates are non-destructive: nothing is deleted on the server

Installing and running

- Install Node.js version 0.12
- Download and unzip digexp-toolkit.zip, then run install.cmd/install.sh from the unzipped folder
- This automatically downloads needed dependencies from GitHub and npm
 - DX Sync and Script Portlet Lint are pulled from GitHub
 - Other npm package dependencies are downloaded
- For Script Portlet “push” support, the Script Portlet 1.3 command line support must be installed and configured
- To run, execute one of these commands:
 - dxdashboard – launches the dashboard
 - dxwcmdesigns – runs the command line program for WCM design libraries

Working with files in the Dashboard

- In the Settings screen, specify the top-level file locations for each type
 - Script applications:
 - Each child folder contains the files for one Script Portlet application, with the main HTML (index.html) at the root
 - Themes:
 - Each child folder contains all the Webdav static resource for one theme
 - To get a theme from the server, click the “Themes” button
 - WCM design libraries:
 - Each child folder represents one WCM library, with children for Components and Presentation Templates
 - To get a WCM library from the server, click the “Libraries” button
- To update the server after making local edits, click “Push” or “Push Updated” button for the application/theme/library
- Or, use the watch features to automatically trigger a Push whenever a file is saved

For more information

- Digital Experience Developer site, with links to download and slides:
<http://developer.ibm.com/digexp/>
- Downloadable code on GitHub:
<https://github.com/OpenNTF/WebDevToolkitForDx>
- Use the Digital Experience forum for questions, and GitHub project “Issues” for any problems