

ALLOYUI AND CODE UPGRADE TOOLS

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LIFERAY UPGRADE TOOLS

- Whether you need to upgrade to the latest version of AlloyUI for Liferay 6.2 or are looking to update your code for Liferay DXP, Liferay provides the tools you need to get you started.
- In the following exercises, we'll walk through installing and running the Liferay AUI Upgrade Tool for updating AlloyUI for Liferay 6.2.
- We'll also take a look at using the Code Upgrade Tool to help get your code ready for Liferay DXP.

THE LIFERAY AUI UPGRADE TOOL

- ▶ When upgrading from Liferay 6.1 to 6.2, there are few AlloyUI changes that need to be made in the plugin code in order to successfully run existing portlets in Liferay 6.2.
 - AlloyUI is a framework built on top of YUI3 (JavaScript) that uses Bootstrap (HTML/CSS) to provide a simple API for building high scalable applications.
- Most of the required AlloyUI changes will be made in JS, CSS, and JSP files.
- In order to make upgrading your code as easy as possible, Liferay has provided the *Liferay AUI Upgrade Tool*.
- ▶ Depending on your code, the tool should be able to make about 80-100% of the required code changes.
- For more information on the tool, documentation is available at https://github.com/liferay/liferay-aui-upgrade-tool



EXERCISE: INSTALLING THE LIFERAY AUI UPGRADE TOOL

- You will need to have NodeJS installed on your machine to install the LAUT tool.
- 1. Open a Terminal/Command Prompt window.
- 2. Run the install command to install the Liferay AUI Upgrade Tool:
 - \$ [sudo] npm install -g laut

```
C:\Users\Liferay\npm install -g laut
C:\Users\Liferay\AppData\Roaming\npm\node_modules\laut\bin\laut.js
C:\Users\Liferay\AppData\Roaming\npm\node_modules\laut\bin\laut.js
C:\Users\Liferay\AppData\Roaming\npm\node_modules\laut\bin\laut.js
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C:\Users\Liferay\AppData\Roaming\node_modules\laut\p
```

EXERCISE: RUNNING LAUT

- > Once installed, you can run LAUT against a plugin or set of plugins.
- > When run, the tool will update plugin code for the Liferay 6.2 standard.
- 1. Run the laut command to execute the upgrade tool:
 - \$ laut -f projects/liferay/liferay-plugins
 - In this example, projects/liferay/liferay-plugins is the directory containing the portlets which are to be updated for Liferay 6.2.
- As a developer, you will have to review changes to accept or reject.
- Even if you reject any changes, the information provided will still be useful as a hint that there may be issues in your code and that you may have to manually apply changes.

HELPFUL LAUT COMMANDS

> The Liferay AUI Upgrade Tool supports various commands and options:

| -h,help | Outputs usage information |
|--------------------------|--|
| -f,file [file name] | The file(s) to process |
| -e,ext [file extentions] | The file extentions that should be processed |
| -V,version | Outputs the version number |

```
C:\Users\Liferay>laut -h

Usage: laut.js [options]

Options:

-h, --help output usage information
-f, --file [file name] The file(s) to process.
-e, --ext [file extensions] The file extensions which should be processed. Defaults to "js, jsp, jspf, css, tpl".

-V, --version output the version number
```

WHAT'S BEING CHANGED?

- What are the changes the Liferay AUI Updgrade Tool is making in the code?
 - Removes the aui- prefix from CSS classes in CSS, JS, and JSP pages
 - Adds -deprecated suffix to all deprecated modules in AlloyUI 2.0
 - The user can configure these. They are described in JSON format in the assets/deprecated-modules.json file.
 - Renames CSS classes that require renaming
 - The user can configure these. They are described in JSON format in the assets/css-classes.json file.
 - Replaces the inputCssClass attribute in <aui:input> as the attribute is no longer used



ADDITIONAL CODE CHANGES

- Additional changes made by the Liferay AUI Updgrade Tool:
 - Replaces .selector-button input where delegate events are attached (or single listeners via .on) with .selector-button
 - > Changes handler: function(... to on : { click: function(... }
 - This is usually used when adding children to AUI Toolbar.
 - Replaces all occurences of new A.Dialog with Liferay.Util.Window.getWindow
 - Adds <portlet:namespace /> to name attribute of input elements if they are not already namespaced



THE CODE UPGRADE TOOL

- Liferay also provides the Code Upgrade Tool as a feature in Liferay IDE (included in versions 3.1 and later).
- > The Code Upgrade Tool:
 - Identifies code affected by the DXP API changes
 - Describes each API change related to the code
 - Suggests how to adapt the code
 - Provides options, in some cases, to adapt code automatically
- Even if you use tools other than Liferay IDE, you should upgrade Plugins SDK plugins using the Code Upgrade Tool in Liferay IDE first. You can use your favorite tools later.

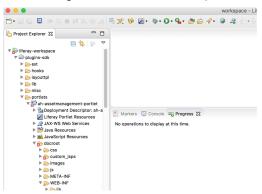
EXERCISE: UPGRADING EXISTING CODE FOR DXP

- Once you have updated code with the Liferay AUI Upgrade Tool for Liferay 6.2, you can use the Code Upgrade Tool to adapt your existing code for Liferay DXP's new API standards.
- 1. **Copy** a newly upgraded plugin from your Liferay 6.1 Plugins SDK to your Liferay workspace in the *plugins-sdk* directory.
 - > This directory houses the legacy plugins within your Liferay workspace.
 - You can specify the location in your gradle.properties file at the root of your Liferay workspace by adding the following property:
 - > liferay.workspace.plugins.sdk.dir=plugins-sdk
- 2. Start Liferay IDE.



EXERCISE: CREATING A NEW WORKSPACE

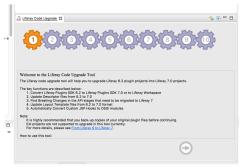
- 1. Create a new workspace that points to your existing Liferay workspace.
 - Alternatively, you can create an empty workspace and add the Liferay workspace to your project.
 - > You should see something like this once the workspace is created:





EXERCISE: THE LIFERAY CODE UPGRADE TOOL

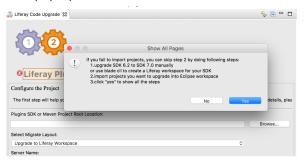
- 1. **Go to** *Project→Liferay Code Upgrade Tool* in the menu.
 - > The tool will open in a new tab within the IDE.
 - You can either expand the tab or drag it to a center window for easier use.



2. Click on the right arrow at the bottom of the screen to begin.

EXERCISE: THE IMPORTED WORKSPACE

- Because you have already imported your existing Liferay workspace into the Liferay IDE workspace, you can bypass the import screen and error message.
- 1. Click on the plus icon at the upper right corner of the tab.
- 2. Click Yes on the pop-up.





EXERCISE: CONFIRMING THE IMPORTED WORKSPACE

- To verify that the previous step was bypassed, you can click back to step 2 by clicking the icon labeled 2.
- 1. Click on the gear icon labeled 2 to confirm the import.
 - You should see that the import has finished.





THE NEXT STEPS

- You can now continue going through the Code Upgrade Tool steps.
- For more information on the Code Upgrade Tool and an explanation of each step in the process, documentation is available at https://dev.liferay.com/develop/tutorials/-/knowledge_base/7-o/ adapting-to-liferay-7s-api-with-the-code-upgrade-tool



ADDITIONAL MANUAL CHANGES

- Once you have run through the steps for Code Upgrade Tool, you may still need to take your upgraded DXP plugins and make additional manual changes or fixes.
- > You may also need to deploy as a WAB or convert to an OSGi module.
- When using Liferay's upgrade tools, you'll be well on your way to upgrading to the latest version of the Liferay Platform.

