



STYLING LIFERAY WITH THEMES

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GETTING THE RIGHT LOOK

- ❖ No matter how beautiful the default look and feel is, you'll likely want to customize it to suit your needs.
- ❖ Liferay defines a consistent style that controls every part of the UI:
 - ❖ Buttons
 - ❖ Text
 - ❖ Icons
 - ❖ Page layout
- ❖ With a little effort, you can implement consistent branding across the platform.

THE S.P.A.C.E. CASE

- ❖ The situation at S.P.A.C.E. is no different.
- ❖ After setting up Liferay DXP, the design team wants to implement a stellar look and feel.
- ❖ They'll need to control all of the styles across Liferay:
 - ❖ Typeface
 - ❖ Buttons
 - ❖ Background color
 - ❖ Images
- ❖ They'll also want to modify some of the page structure:
 - ❖ HTML of the page
 - ❖ Layout of applications on the page

THEMES CAN DO IT

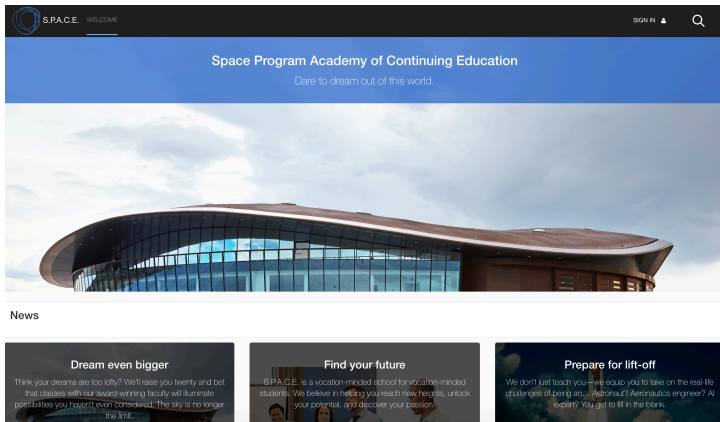
- ❖ Liferay uses *Themes* to control the user experience.
- ❖ Most of our needs are met with *Themes*. We can:
 - ❖ Control the HTML of every page
 - ❖ Control global styles for text, color, and more
 - ❖ Define the icon set
 - ❖ Set margins
 - ❖ Control CSS animations
- ❖ There's one thing we can't really do with *Themes*:
 - ❖ Layout of applications on the page
- ❖ We'll tackle this one later.

WHAT'S IN A THEME?

- ❖ A Liferay *Theme* is a collection of files:
 - ❖ CSS
 - ❖ JavaScript
 - ❖ Images
 - ❖ Templates
- ❖ These files are packaged up in a *module* that gets deployed in your instance of Liferay.

WHAT A THEME CONTROLS

- ❖ Here's a look at what the Theme controls:



- ❖ Note that this includes all the text, buttons, links, and other UI elements controlled by CSS.

WHAT'S NOT IN A THEME

- ❖ Your *Theme* defines the basic user experience in Liferay.
- ❖ More customization can be done in additional areas:
 - ❖ Menus and Panels
 - ❖ Layout of applications on the page
 - ❖ Styling for web content
 - ❖ Customizing application displays
- ❖ These can be customized through templates or custom modules.
- ❖ You'll probably need development help for custom modules.

WHAT DEVELOPERS CAN DO

- ❖ Developers can create modules to override:
 - ❖ The Product Menu
 - ❖ The Control Menu
 - ❖ Control Panel
 - ❖ Site Administration Panel
 - ❖ Simulation Menu
 - ❖ Some application displays

THEME ON

- ❖ We'll dig into some additional customizations in a bit.
- ❖ Our first problem to tackle is getting the basic look and feel of S.P.A.C.E. right.
- ❖ This means creating a custom *Theme*.

THEMATIC TOOLS

- ❖ Themes are modules that are a combination of CSS, JavaScript, HTML, and FreeMarker templates that modify the look and feel of Liferay.
 - ❖ At a high-level, themes in Liferay DXP haven't changed that much since Liferay 6.2.
- ❖ What has changed are the tools and libraries used in developing themes.
- ❖ Here is what we'll cover:
 - ❖ Liferay Theme Generator
 - ❖ Themelets
 - ❖ Bourbon
 - ❖ Theme Contributors
 - ❖ Importing Resources

THEME STRUCTURE

- ❖ Custom Themes are created based on one of two *base themes*.
- ❖ Liferay's base themes provide a starting look and feel to customize:
 1. **Unstyled:** The unstyled theme maintains basic functionality with no styling.
 2. **Styled:** The styled theme inherits from the unstyled theme, and simply adds some Lexicon CSS styling that inherits Bootstrap's styles.
- ❖ Using a base theme as your foundation, you can then make your customizations to the theme files.

LIFERAY THEME GENERATOR

- ❖ A suite of development tools is available for Liferay DXP to make theme creation easier.
- ❖ New themes can be built using the *Liferay Theme Generator* in *Yeoman*.
- ❖ The *Liferay Theme Generator* is a new tool for quick and easy development of Liferay themes.

THEMELETS

- ❖ Sometimes you don't need to override the entire look and feel.
- ❖ You may want to modify only a few areas of the theme:
 - ❖ Colors
 - ❖ Fonts
- ❖ This is easy to do with *Themelets*.
- ❖ Themelets are small, extendable, reusable pieces of code that are implemented by a theme.
- ❖ They can consist of CSS, templates, images, and JavaScript just like a theme.
- ❖ They are created as *npm* packages and can be published to the npm registry for easy sharing and reuse.

HANDLING CROSS-BROWSER COMPATIBILITY WITH BOURBON

- ❖ *Bourbon* is a lightweight mixin library for Sass, which is used when processing SCSS files, for Liferay DXP.
- ❖ It provides a number of mixins to handle CSS3 features.
- ❖ As an example, this:

```
section {  
  @include linear-gradient(to top, blue, black);  
}
```

- ❖ Translates to this:

```
section {  
  background-color: blue;  
  background-image: -webkit-linear-gradient(bottom, blue, black);  
  background-image: linear-gradient(to top, blue, black);  
}
```

- ❖ For more information on *Bourbon* examples, you can go here:
<http://bourbon.io/docs/>

THEME CONTRIBUTORS

- ❖ Additionally, developers can now create *Theme Contributors*.
- ❖ Theme Contributors provide a way to package UI resources independent of a theme and include them on the page.
- ❖ There are theme contributors that come packaged out of the box.
- ❖ These have UI resources that style the Product Menu, Control Menu, and Simulation Menu.

IMPORTING RESOURCES

- ❖ Lastly, as was true in previous versions, developers can package up and deploy content with their theme.
- ❖ The Resources Importer allows developers to deploy their themes with predefined content.
- ❖ This is useful for showcasing a theme and also provides a Site Template that can be used for creating new sites with a predefined look and feel.

LET'S DO IT!

- ❖ This may seem like a lot of info, but we'll look at each topic we mentioned one at time.
- ❖ We can use our new theme to start defining the S.P.A.C.E. user experience.
- ❖ We'll then build up more customizations on top.
- ❖ Ready? Let's build a theme!

Notes: