



CREATING LAYOUT TEMPLATES WITH THE LIFERAY THEME GENERATOR

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S.P.A.C.E. LAYOUT REQUIREMENTS

- ❖ Part of the modern design S.P.A.C.E. is looking for on their website includes how applications are positioned on the page.
- ❖ Pages may require different layouts depending on where they are in the site.
- ❖ The construction of our S.P.A.C.E. sites and pages may be the responsibility of our Administration and Content teams, but we can provide the layout design needed.
- ❖ In addition to the basic layouts, we need a couple of layouts that conform to the following models for our top and secondary level pages:



USING THE LIFERAY THEME GENERATOR FOR LAYOUTS

- ❖ We have seen how the Liferay Theme Generator can be used to create themes and themelets.
- ❖ We can also use the generator to create layout templates by using:
`yo liferay-theme:layout`
- ❖ This will create a new folder for your layout template in your current working directory.
- ❖ Let's walk through creating one of the layout templates from our theme.

EXERCISE: CREATING A LAYOUT TEMPLATE

1. **Go to** the *liferay* folder you created in the command line or Terminal.
 - **Windows:** `C:\liferay`
 - **Mac/Linux:** `~/liferay`
2. **Run** the `yo liferay-theme:layout` command.
3. **Type** the name *Space 50/50 Width Limited*.
4. **Type** *space-50-50-width-limited* for the template id.
5. **Choose** 7.0 for the version.
 - At this point, the layout template design process begins.
 - As the generator states, layout templates implement Bootstrap's grid system.
 - Every row consists of 12 sections, so columns range in size from 1 to 12.
 - The sub-generator is user-friendly, allowing you to add and remove rows and columns as you design.

EXERCISE: MODIFYING ROWS AND COLUMNS

1. **Type** 4 when the sub-generator prompts you for a number of columns.
2. **Press** *Enter*.
3. **Choose** the following for each column:
 - Column 1: 2/12 - 16.66%
 - Column 2: 4/12 - 33.33%
 - Column 3: 4/12 - 33.33%
 - Column 4: 2/12 - 16.66%

✓ This will show us how it looks so far!

```
Here is what your layout looks like so far
-----
| 2      | 4      | 4      | 2      |
|        |        |        |        |
|        |        |        |        |
-----
```

EXERCISE: FINISHING OUR FIRST SPACE TEMPLATE

- ❖ After we've created the first row and columns, you will see the following options:
 - ❖ **Add row:** adds a row below the last row created
 - ❖ **Insert row:** allows you to inject a new row somewhere in the existing layout
 - ❖ **Remove row:** allows you to remove a row from the current layout
 - ❖ **Finish row:** generates layout template files
- 1. **Choose** *Finish Layout*.
- 2. **Type** in the command line or Terminal:
 - ❖ Windows: `C:\liferay\bundles\liferay-dxp-digital-enterprise-[version]\tomcat-[version]`
 - ❖ Mac/Unix: `~/liferay/bundles/liferay-dxp-digital-enterprise-[version]/tomcat-[version]`
- 3. **Press** *Enter* to choose the default `http://localhost:8080`.

PACKAGING LAYOUTS IN THEMES

- ❖ As we saw with our Space Program Theme, we can bundle content and layouts with themes.
- ❖ This layout has already been included in the theme using the following steps:
 - ❖ In `[your-theme]/src`, create a `layouttpl` folder.
 - ❖ Copy and paste the `tpl` and `png` file from `[your-layout]/docroot` to `[your-theme]/src/layouttpl`.
 - ❖ Last, you can copy the `<layout-template>` structure from the `liferay-layout-templates.xml` found in `WEB-INF`.
 - ❖ Paste it into the theme's `liferay-look-and-feel.xml`.
- ❖ But we can use *gulp* commands to deploy layouts separately as well.

EXERCISE: ADDING THE TOP ROW

1. **Type** 1 when the sub-generator prompts you for a number of columns.
2. **Press** *Enter*.
3. **Press** *Enter* when you see the following:
12/12 - 100% - | | - only available width, hit enter

✓ This will show us how it looks so far!

```
? How many columns would you like for row 1? 1
? How wide do you want row 1 column 1? 12/12 - 100% - | |
Here is what your layout looks like so far
-----
| 12                                     |
|                                     |
|                                     |
-----
```

EXERCISE: FINISHING THE SECOND ROW

1. **Press** *Enter* next to *Add row*.
2. **Type** *4* when the sub-generator prompts you for a number of columns.
3. **Press** *Enter*.
4. **Choose** the following for each column:
 - **Column 1:** $2/12$ - 16.66%
 - **Column 2:** $4/12$ - 33.33%
 - **Column 3:** $4/12$ - 33.33%
 - **Column 4:** $2/12$ - 16.66%

✓ Now we can see how the rows look together.

Here is what your layout looks like so far

12			
2	4	4	2

EXERCISE: FINISHING OUR SECOND TEMPLATE

1. **Choose** *Finish Layout*.
2. **Type** in the command line or Terminal:
 - Windows: `C:\liferay\bundles\liferay-dxp-digital-enterprise-[version]\tomcat-[version]`
 - Mac/Unix: `~/liferay/bundles/liferay-dxp-digital-enterprise-[version]/tomcat-[version]`
3. **Press** *Enter* to choose the default `http://localhost:8080`.

EXERCISE: ADDING A NEW THUMBNAIL

- ❖ Now that the layout is created, we want to add our thumbnail to replace the default.
 - ❖ This will make it clear, visually, which layout to select on the platform.
1. **Go to** `exercises/front-end-developer-exercises /04-layout-templates/`.
 2. **Copy** the `space_1_2_columns_50_50_limited.png` file.
 3. **Go to** your `space-1-2-columns-50-50-limited-layouttpl/docroot` folder found in your `liferay` folder.
 4. **Replace** the default png with the png you just copied.
- ✓ Now we're ready to deploy!

EXERCISE: DEPLOYING THE NEW LAYOUT TEMPLATE

1. **Go to** the base layout folder in the command line or Terminal.
 - **Windows:** `C:\liferay\space-1-2-columns-50-50-limited-layouttpl`
 - **Mac/Linux:** `~/liferay/space-1-2-columns-50-50-limited-layouttpl`
 2. **Run** the *gulp deploy* command.
- ✓ Now our new layout is available on the platform!

Type

Layout



Create an empty page you can lay out manually.



Freeform



1 Column



2 Columns (50/50)



2 Columns (30/70)



2 Columns (70/30)



3 Columns



1-2 Columns (30/70)



1-2 Columns (70/30)



1-2-1 Columns



2-2 Columns



Space 1-2 Columns 50/50 ...

LAYING IT OUT

- ❖ The Themes Generator makes new layouts quick and easy!
- ❖ After creating a new layout using the generator, you will see `docroot/{layout-name}.tpl` in your layout template directory that reflects the layout you created.
- ❖ The generator will also install the *npm* dependencies used for deployment.
- ❖ After running `gulp deploy`, you will also see a `dist` folder containing the application file itself.
- ❖ This file can then be deployed on any server you're working with.

Notes: