

# Fragments, React and Widgets

[pablomolina.me/r/liferay-fragments](https://pablomolina.me/r/liferay-fragments)

# Who am I?

- Spider-Man fan
- Joined Liferay in 2017
- Working mostly on *Modern Site Building*
- Chachi FrontEnd Developer™
  - 🧑‍🔧 No Java
  - 🧑‍🔧 No ~~Portlets~~ Widgets
  - 💔 No FreeMarker

# Please do interrupt me



“ Fragments are simple, are just some pieces of HTML, CSS and JavaScript that can be added to a page and easily managed by FrontEnd developers... ”

“ ... But now they have more capabilities and are more complex, lets see the differences. ”

Me - Fragments, React and Widgets: [liferay.dev/blogs/-/blogs/fragments-react-and-widgets](https://liferay.dev/blogs/-/blogs/fragments-react-and-widgets)

# Summary

- 0. Widgets
- 1. First Fragment
- 2. Content Pages vs Widget Pages
- 3. Extending Fragments
- 4. Using React
- 5. *Next steps*

# 0. Widgets

- Java *components*
- Can do *virtually* everything
- Can be built using FrontEnd tools

Carlos Lancha and Rodolfo Miranda - The Frontend Developer's Guide to the Galaxy: Integrating a Real-world App in DXP: [youtu.be/WMEXAGMP9Ls](https://youtu.be/WMEXAGMP9Ls)

# 1. First Fragment

- Start from scratch
- Use only HTML, CSS, and JavaScript
- Works inside a Content Page

```
<button type="button">  
  Click me  
</button>
```

```
fragmentElement.addEventListener(  
  "click",  
  () => alert("Hey!")  
);
```

## 2. Content Pages vs Widget Pages

With Content Pages:

- Layout is restricted
- No templates are provided
- Widgets can be used too (7.2+)



### 3. Extending Fragments

Widgets inside Fragments

```
<lfr-editable />
```

FreeMarker

Toolkit

Configuration

Compositions

```
data-lfr-editable
```

Common Styles

FragmentRenderer

React

SCSS

...

## 4. Using React

- Pros:
  - Reusing React components
  - More complex logic
- Cons:
  - *Heavier* Fragments
  - No editables
  - No HTML

## 5. Next steps

- Better Common Styles
- More no-code features
- React
- **You tell us**

# Links

- Blog post (Spanish): [liferay.dev/blogs/-/blogs/fragmentos-react-y-widgets](https://liferay.dev/blogs/-/blogs/fragmentos-react-y-widgets)
- Blog post (English): [liferay.dev/blogs/-/blogs/fragments-react-and-widgets](https://liferay.dev/blogs/-/blogs/fragments-react-and-widgets)
- Documentation reference: [learn.liferay.com/dxp/latest/en/site-building/developer-guide/reference/fragments.html](https://learn.liferay.com/dxp/latest/en/site-building/developer-guide/reference/fragments.html)
- Fragment development documentation: [learn.liferay.com/dxp/latest/en/site-building/developer-guide/developing\\_page\\_fragments.html](https://learn.liferay.com/dxp/latest/en/site-building/developer-guide/developing_page_fragments.html)
- FreeMarker CheatSheet: [pablomolina.me/tesera/entry/freemarker](https://pablomolina.me/tesera/entry/freemarker)

# Questions?



# Thank you!

