

*All references in this presentation to Project Firefly
refer to Adobe Developer App Builder*

DEVELOPERS LIVE



Project Firefly Deep Dive

Duy Nguyen | Software Engineer

Jesse MacFadyen | Sr Computer Scientist



Who Are We

Duy Nguyen

Software Engineer,
Adobe I/O Extensibility

Jesse MacFadyen

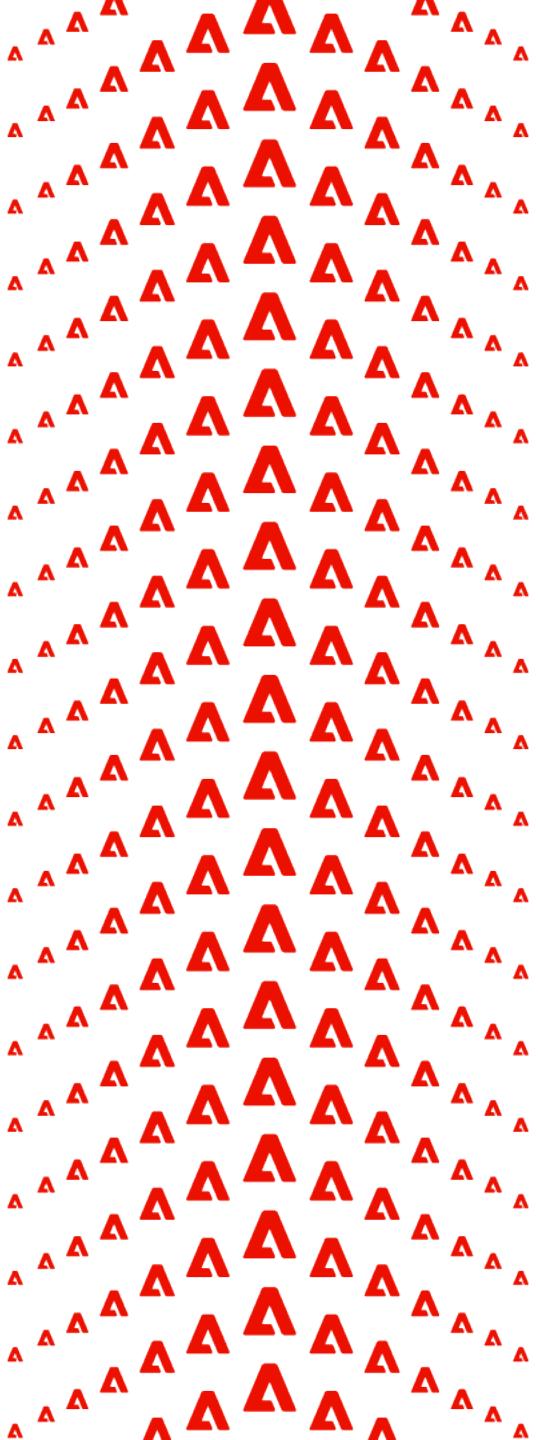
Sr Computer Scientist,
Adobe I/O Extensibility

Agenda

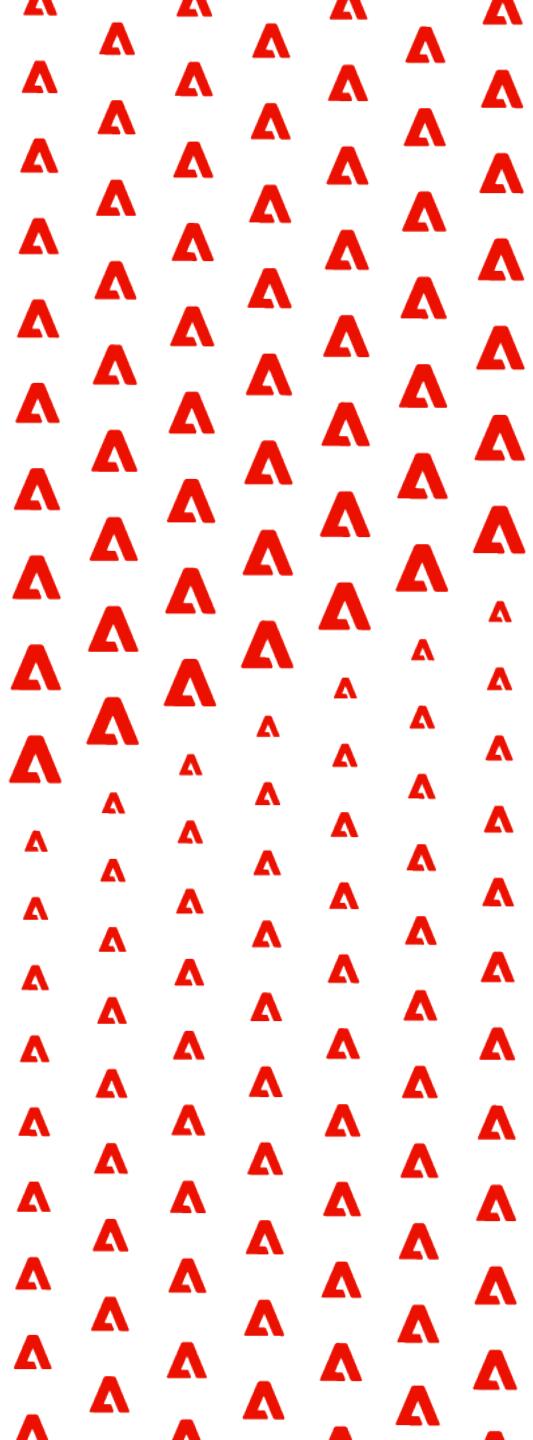
Project Firefly Technical Deep Dive

Use Case – Custom Content Fragments Editor

Demo – Developer Experience



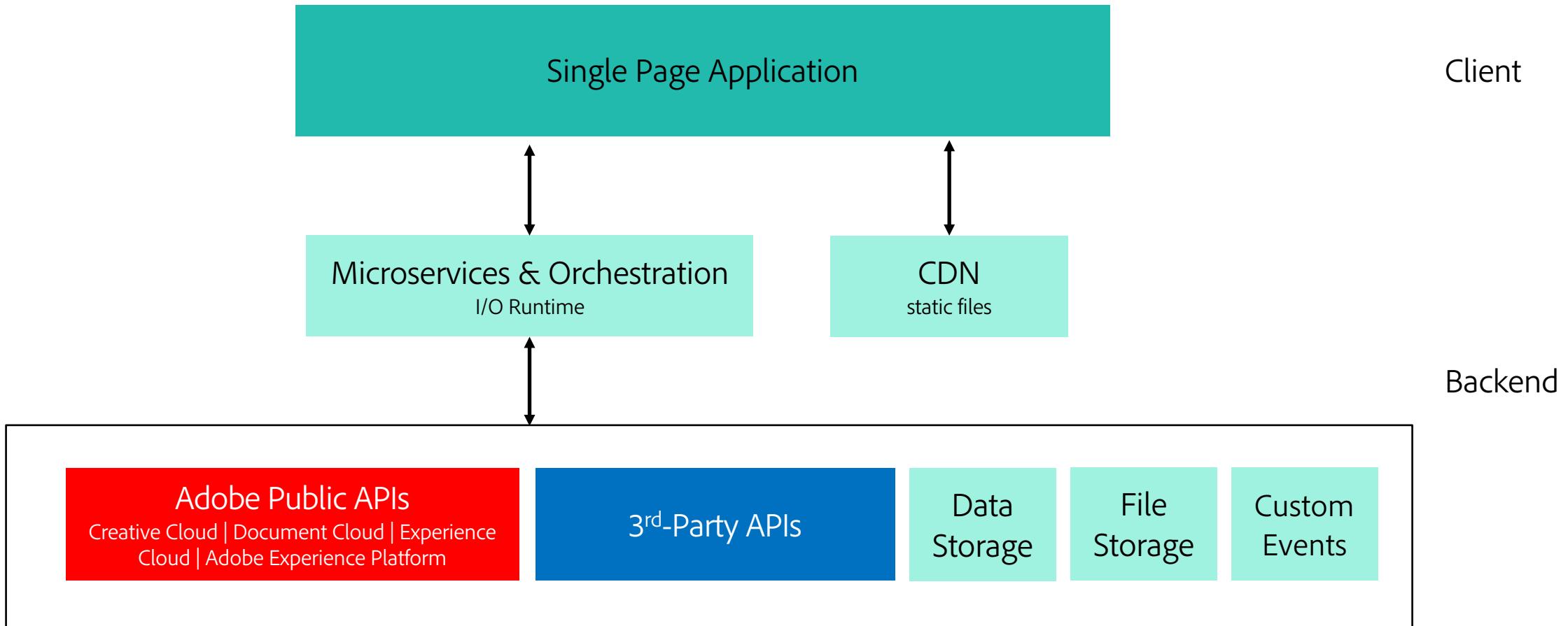
Project Firefly Deep Dive



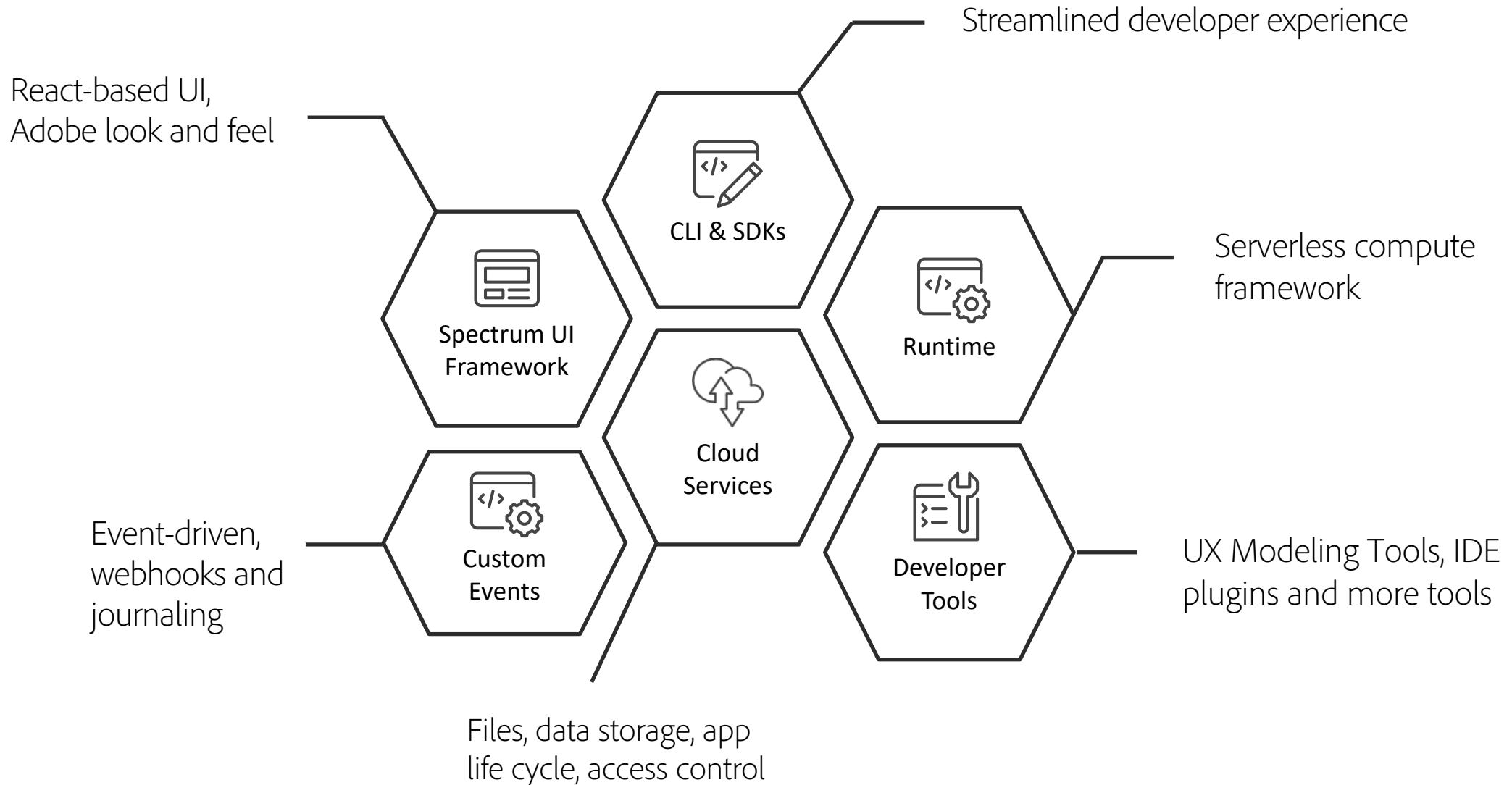
Project Firefly

*A complete design, application and runtime framework
for building 3rd-party Cloud Native Applications
that extend the functionality of Adobe solutions and run on our infrastructure.*

Project Firefly Application Architecture



Project Firefly Components



Project Firefly & Adobe I/O CLI

```
> npm install @adobe/aio-cli
```

OOTB Plugins

- Config Plugin
- Auth Plugin
- Info Plugin
- Console Plugin
- Certificate Plugin

Firefly Plugins

- App Plugin
- Runtime Plugin

Community Plugins

- IMS Plugin
- PhoneGap Build Plugin
- Target Plugin
- **AEM Repo Plugin**
- **Cloud Manager Plugin**
- Adobe Experience Platform Plugin
- Adobe I/O DevOps Plugin
- More coming...

Project Firefly SDKs

```
> npm install @adobe/aio-sdk
```

Core SDK

Core Functionalities shared by all SDKs.

- Core Config Library
- Core Errors Library
- Core Logger Library
- Core TVM Library
- Core Networking Library

I/O & Firefly SDK

SDKs supporting Adobe I/O Functionalities, Adobe I/O CLI and Firefly Applications.

- State Library
- Files Library
- IMS Library
- Adobe I/O Events Library
- Adobe I/O Runtime Library
- Developer Console Library
- Apps Exchange Library

Experience Cloud SDK

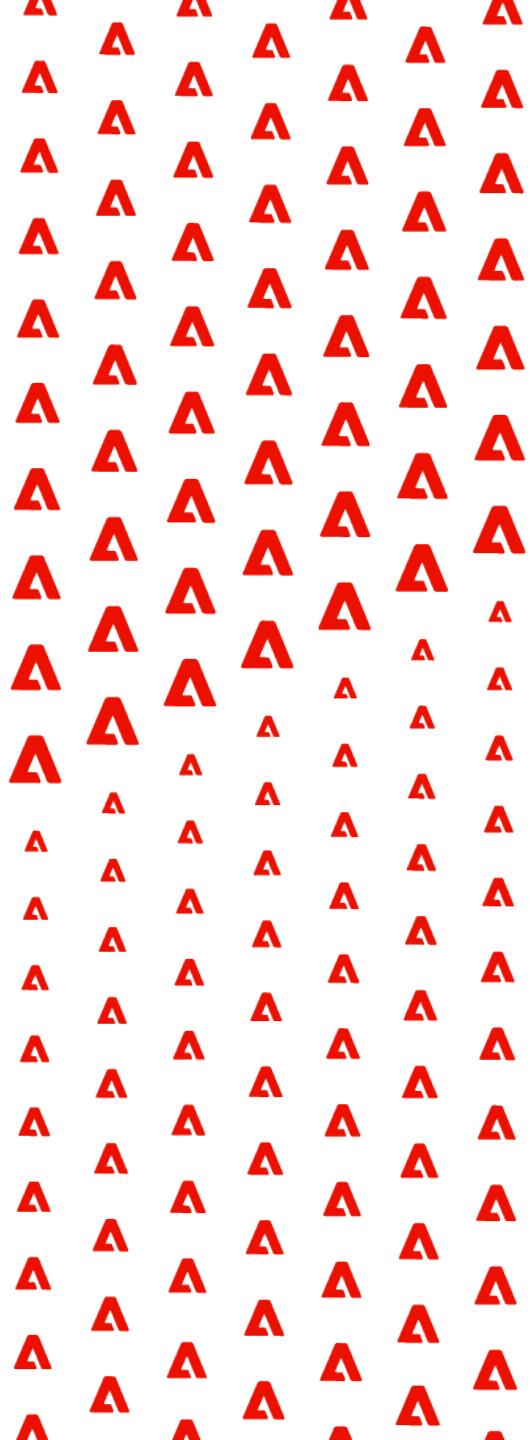
Wraps Experience Cloud APIs into easy-to-use SDKs.

- Adobe Target Library
- Adobe Analytics Library
- **Adobe Asset Compute Library**
- Adobe Campaign Standard Library
- Adobe Campaign Classic Library
- Adobe Audience Manager Library
- Adobe Customer Profile Library (built by customer)
- Adobe Magento Library (built by Magento team)

Project Firefly Developer Tools

- **wskdebug** as built-in debugger
- **GitHub Actions** for CI/CD
- **VS Code** Extension

Use Case Custom Editor for Content Fragments



Use Case Custom Content Fragments Editor

The image shows a comparison between two editors in Adobe Experience Manager (AEM) as a Cloud Service. On the left, the 'Default Editor' displays a plain text area with basic Markdown syntax highlighting. On the right, the 'Editor with Preview' shows a rich, WYSIWYG-style interface with a toolbar, live preview, and extended editing features.

AEM as a Cloud Service

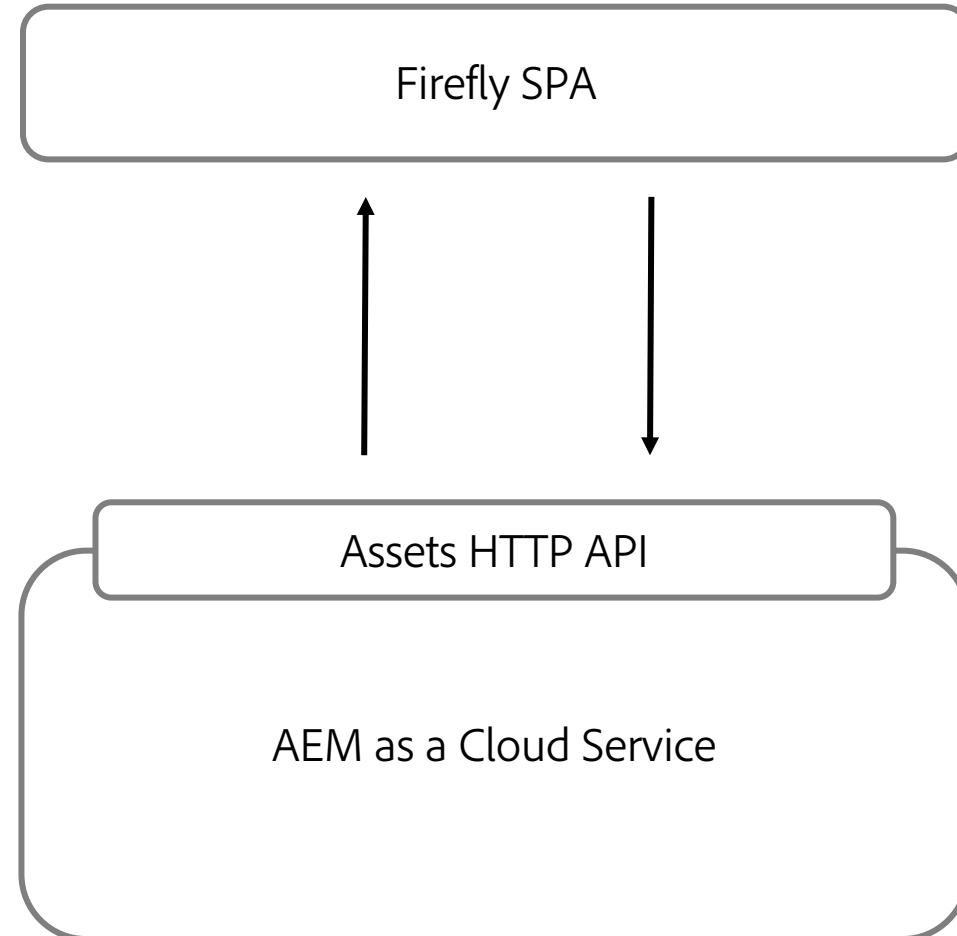
Default Editor

Editor with Preview

The 'Editor with Preview' interface includes:

- Toolbar:** Includes buttons for bold, italic, underline, heading levels (H1-H3), lists, and other rich text options.
- Content Area:** Shows the same Markdown text as the default editor, but with styled previewed output.
- Preview Area:** Shows a live preview of the final rendered content.
- Buttons:** 'Cancel' and 'Save' buttons.

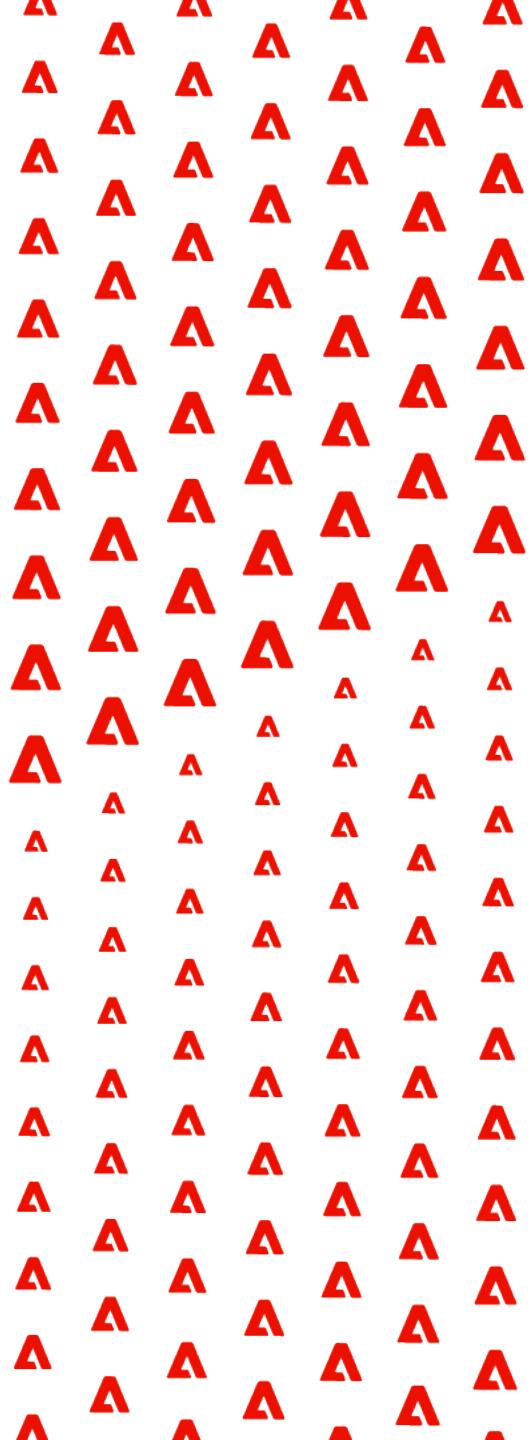
Firefly App Custom Content Fragments Editor



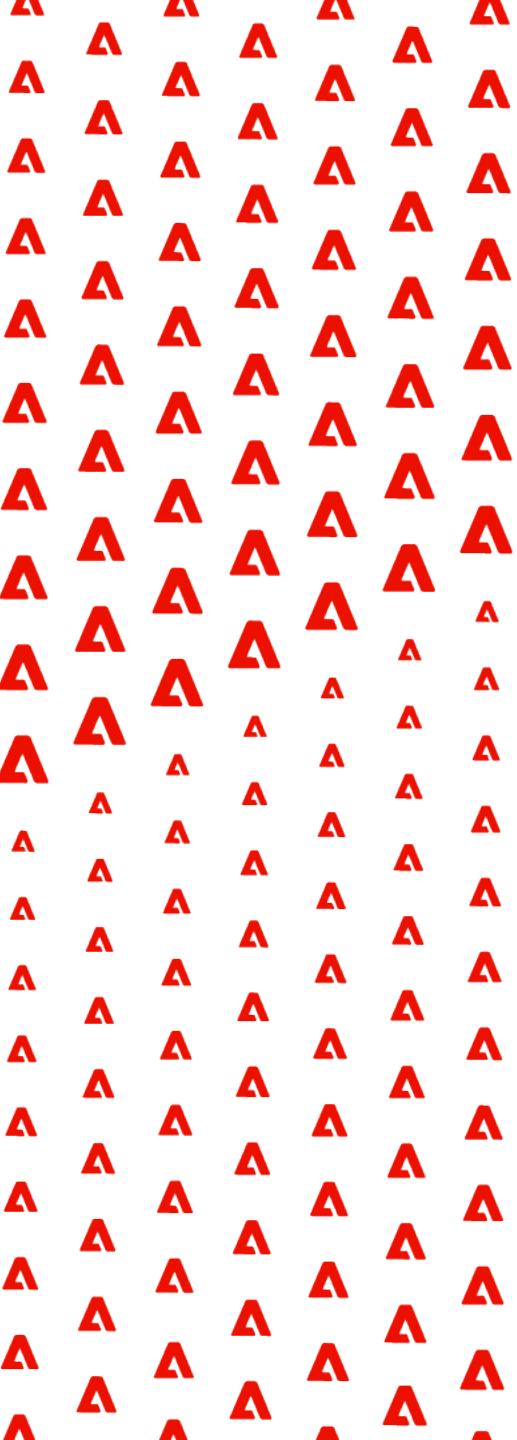
Why Project Firefly?

- Node.js
- No pre-requisite of AEM knowledge
- Development in no time!

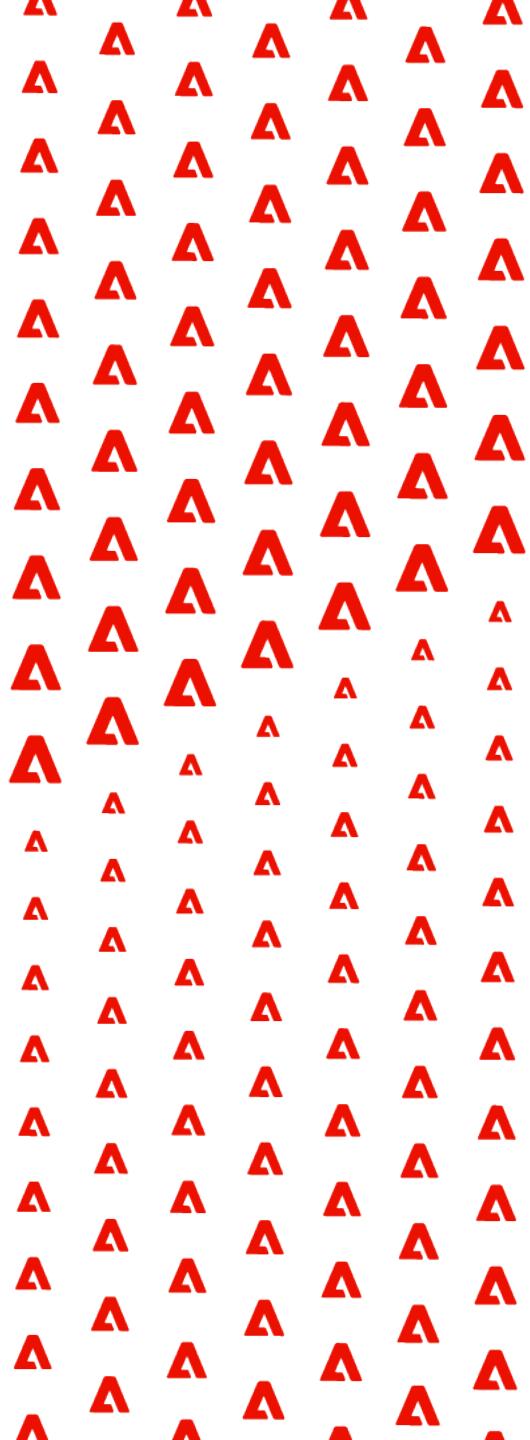
Demo Dev Experience



Q&As



What's Next



What's Next

Try out Project Firefly!



Sign up for Developer Preview

<https://adobeio.typeform.com/to/obqgRm>



Documentation and Resources

<https://adobe.ly/projectfirefly>

Learn more



More Sessions during Developers Live:

Feb 9 11:45AM–12:15PM PT | Asset Compute Service Extensibility



Monthly Webinar hosted by Firefly team

Feb 18 9:00AM - 10:00AM PT

<https://www.adobe.io/apis/experienceplatform/project-firefly/events.html>

