UMBRACOSPARK #SPARKQA

The new Backoffice of Umbraco

Jacob Overgaard and Lasse Fredslund







Jacob Overgaard Frontend Team Lead & Architect Umbraco HQ



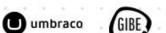
Rock Solid Knowledge



Lasse Fredslund CMS Product Owner Umbraco HQ

🕥 @lassefredslund









- AngularJS is EOL
- Limited extension points ightarrow
 - Usage of Angular Interceptors
 - Impossible to introduce none breakable updates









- Typescript
- Lit





• Umbraco UI Library

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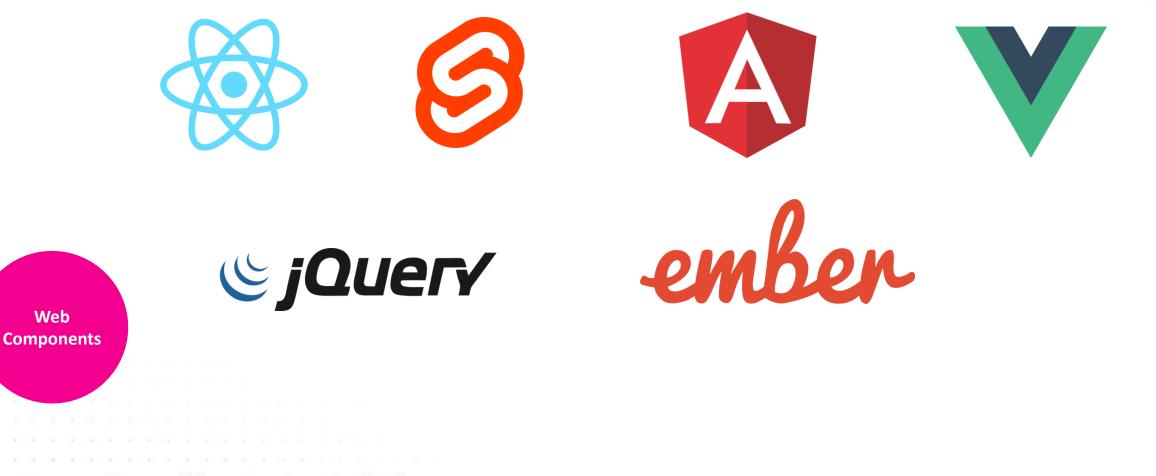
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You can use the framework you like















More responsibility to the frontend

Management API







Part of our Headless offering

Management API







- OpenAPI Spec
 - Clients can be autogenerated
 - Authentication OpenID Connect with usage of OpenIddict
- Rest API
- Doc available in Swagger







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Umbraco Backoffice API 🚥 🚥

This shows all APIs available in this version of Umbraco - including all the legacy apis that are available for backward compatibility

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- Versioned (to avoid breaking changes)
- Smaller controllers
- Bigger services
- All APIs use keys (instead of integer IDs)





Management API



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> Management API





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public enum LanguageOperationStatus

Success, CancelledByNotification, InvalidFallback, NotFound, MissingDefault, DuplicateIsoCode, InvalidIsoCode, InvalidFallbackIsoCode, InvalidId

Management API





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Extension API

Save and publish

Content Media Members	Settings Packages Translation	Users		٩	LR
Content	Document 1	E	English (United States	D Content	i Info
 Multiple Text String All Property Editors Document 1 Document 2 	Headline Text string property	"Extension First Architecture"			
Document 3	Description Textarea property	Every UI Component in The New Backoffice is implemented as an extension!			

Save and preview Save Breadcrumbs **#SPARKQA** Rock Solid Knowledge 0



"The extension registry pattern is lovely to work with - I put together a new manifest type for RTE plugins, and everything just works. It's a really pleasant DX, extending is smooth and painless."

Extensio





Extension API

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		This is the V13 Backoffice					
		© Umbraco Spark 2023					

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Custom Dashboard – prior to V13

App_Plugins
 CustomWelcomeDashboard
 JS customwelcomedashboard.controller.js
 customwelcomedashboard.css
 package.manifest
 WelcomeDashboard.html

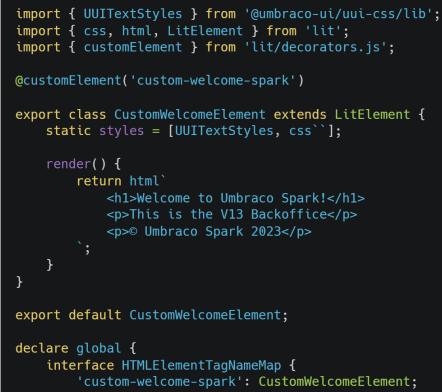




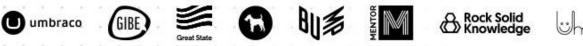
Extension API

Custom Dashboard – in V13

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}





Extension API



Present as extension

For intellisense

```
import { UUITextStyles } from '@umbraco-ui/uui-css/lib';
import { css, html, LitElement } from 'lit';
import { customElement } from 'lit/decorators.js';
```

@customElement('custom-welcome-spark')

•••

}

```
export class CustomWelcomeElement extends LitElement {
    static styles = [UUITextStyles, css``];
```

render() {
 return html`
 <h1>Welcome to Umbraco Spark!</h1>
 This is the V13 Backoffice
 © Umbraco Spark 2023
 `.

export default CustomWelcomeElement;

declare global {
 interface HTMLElementTagNameMap {
 'custom-welcome-spark': CustomWelcomeElement;

API Create class with Lit Lit html

Extension





When we started the journey









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<body>

<!-- THIS IS IT -->
<umb-backoffice></umb-backoffice>

</body> </html>

New Backoffice

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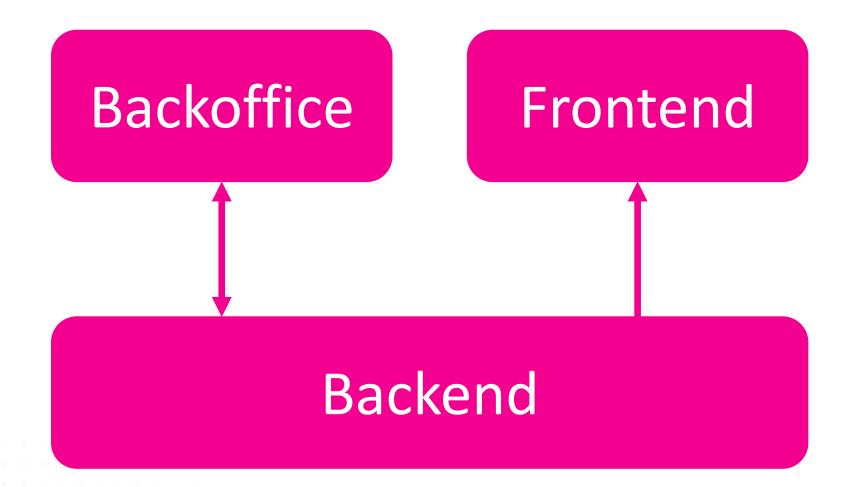
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<umb-backoffice api-url="https://example.com"></umb-backoffice>















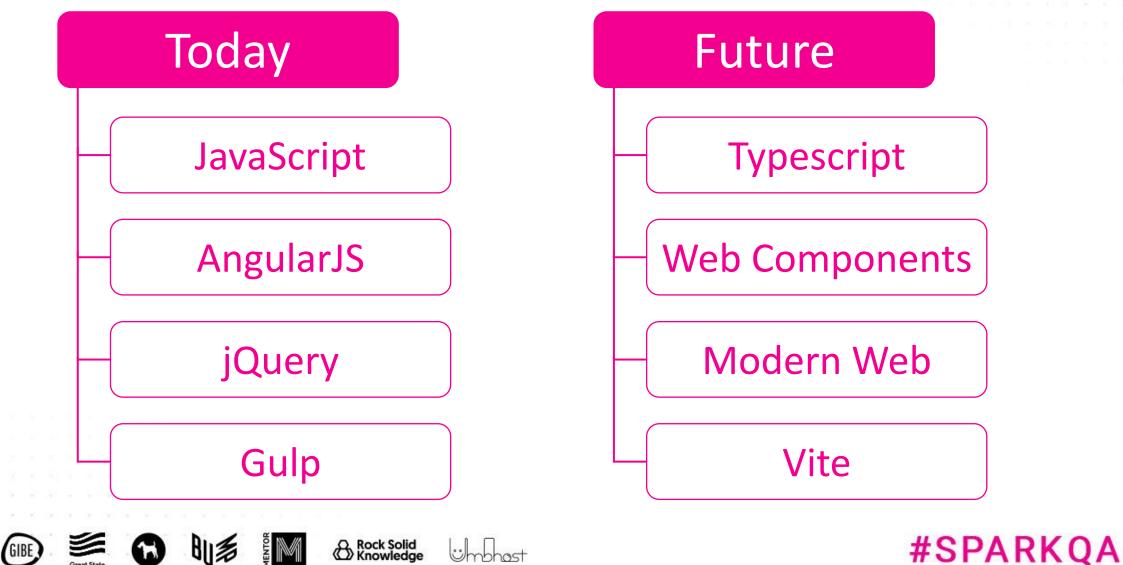
We believe in the modern web and seek only to sugar coat where it makes sense







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Extension API

Auto register from server manifests

Manually register with JavaScript

Context API

Event-driven context based on DOM elements

Provider & Consumer





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Extension API

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```
"name": "My Awesome Package",
"version": "1.0.0",
"dashboards": [
    {
        "alias": "welcomeDashboard",
        "view": "/App_Plugins/MyPackage/WelcomeDashboard.html",
        "sections": [ "Content" ],
        "weight": -1
    }
]
```

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"type": "dashboard",
"alias": "welcomeDashboard",
"name": "My Dashboard",
"js": "/App_Plugins/MyPackage/dashboard.js",
"weight": -1,
"meta": {
 "label": "My Dashboard",
 "sections": ["Umb.Section.Content"],
 "pathname": "my-dashboard"

umbraco-package.json





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```
const onInit = (host, extensionRegistry) => {
  if ( condition ) {
    extensionRegistry.register(
        type: 'dashboard',
        alias: 'my.conditional.dashboard',
        name: 'MyDashboard',
        js: '/App_Plugins/MyPackage/mydashboard.js',
        meta: {
          label: 'My Dashboard',
          sections: ['Umb.Section.Content'],
          pathname: 'my-dashboard',
        },
export { onInit };
```

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Extension API



Extension API

Umbraco CLI?







Extension API

Auto register from server manifests

Manually register with JavaScript

Context API

Event-driven context based on DOM elements

Provider & Consumer







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Context API

export class UmbBackoffice extends UmbElementMixin(LitElement) {
 constructor() {
 this.provideContext('UmbNotificationContext', new UmbNotificationContext())
 }
}



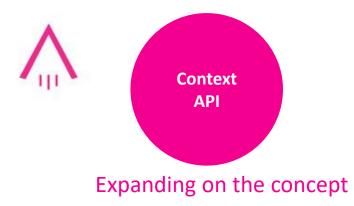


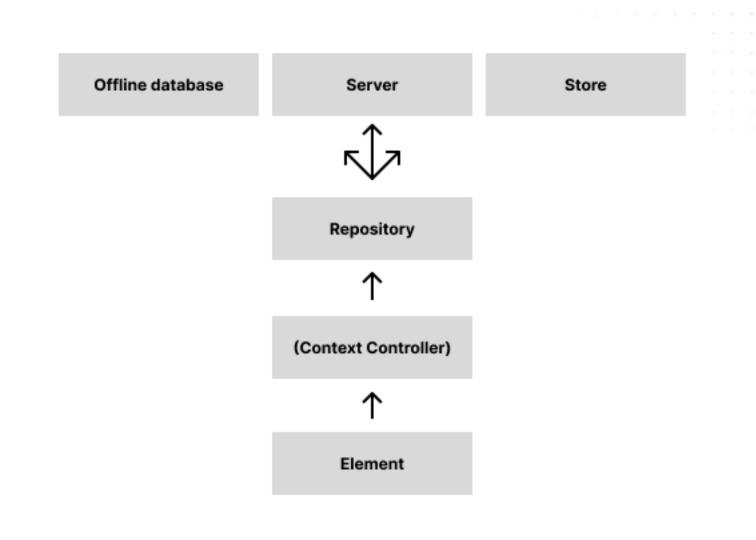


















Extension API

Auto register from server manifests

Manually register with JavaScript

Context API

Event-driven context based on DOM elements

Provider & Consumer





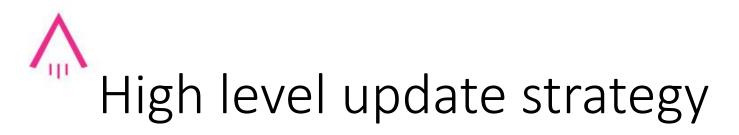


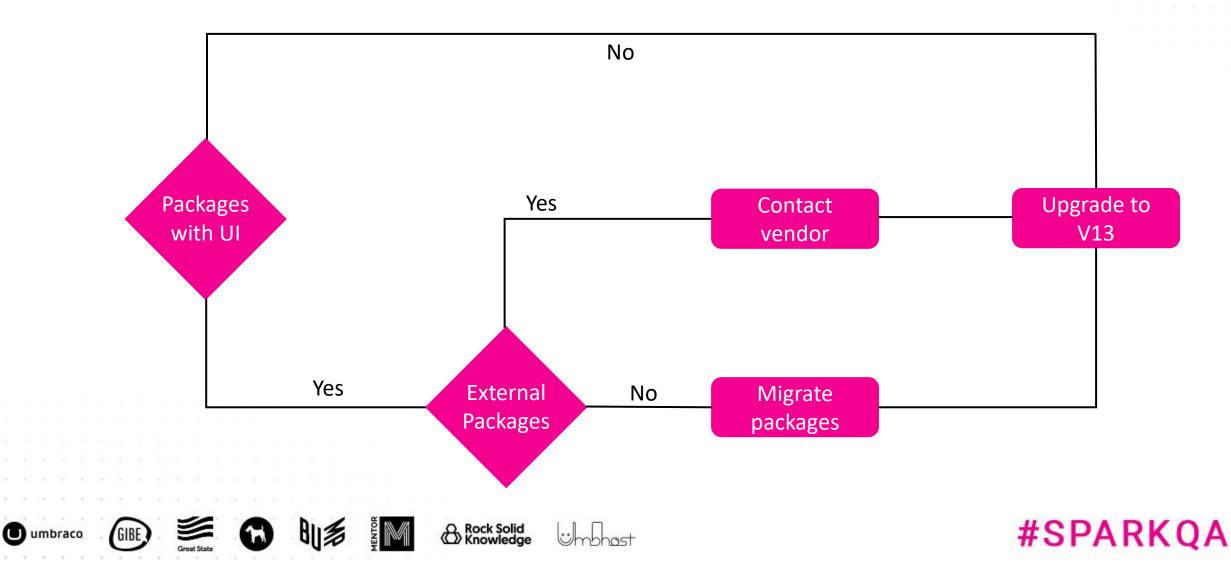
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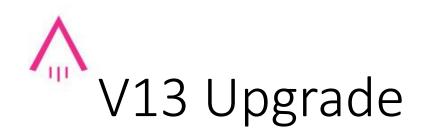
Download demo files here













System.Text.Json







- Media Picker (legacy) will be removed
- Grid Layout will be removed
- Nested Content will be removed









- Beta \rightarrow End June
- V13 RC \rightarrow November 1st
- V13 Final \rightarrow December 14th





Upgrade to V13



Documentation (except what's most needed for extensions)



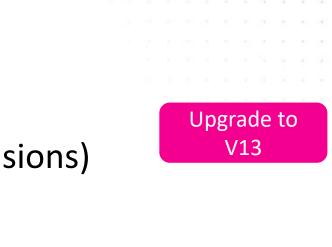
- Preview
- Help

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• ... and probably more

* This might change but is our best guess for now

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Backoffice issue board: https://github.com/orgs/umbraco/projects/34

Backoffice repository: https://github.com/umbraco/Umbraco.CMS.Backoffice

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Umbraco UI Library: https://github.com/umbraco/Umbraco.UI

Try it out on the v13/dev branch today!







