The expui JavaScript API

A reference card of Exponential UI, the admin's JavaScript library: packer keys, exp_config(), the Exp core, Exp.io server calls, dialogs, tables, date pickers, uploads and toolbars.

Source file: `doc/eng-us/help/extension-development/part-8-reference/expui-javascript-api.md` Last changed 2026-11-04
https://doc.exponential.earth/exphelp/viewer/help/extension-development/part-8-reference/expui-javascript-api.md

Part 8, reference 30. Exponential UI (the extension `expui`, object `Exp` in the browser) is the JavaScript library of the administration since YUI was removed. Extensions use it for their admin pages. This page summarizes its API documentation (`doc/API.md` of the expui repository, version 1.0.0.1 at the time of writing); the full description of each module is in its `doc/modules/` folder. Moving old YUI code to it is in From YUI to expui.

Loading

Template call	Loads
`{exp_config( hash( 'prefs', array( ... ), 'strings', array( ... ) ) )}`	the page's configuration block: preferences and translated texts for your script
`{ezscript_require( 'exp::core' )}`	jQuery 4 and the core
`{ezscript_require( array( 'exp::core', 'exp::io' ) )}`	and the server calls
`{ezcss_require( 'exp/core.css' )}`	the design tokens (`--exp-*`) and utilities

Module keys: `exp::collapse`, `exp::sticky`, `exp::dialog`, `exp::upload`, `exp::datatable`, `exp::datepicker`, `exp::autosave`, each with its stylesheet `exp/<module>.css`. **The admin designs load all of them on every page**, so an admin page of your extension usually needs only its own script.

The core (Exp)

API	Does
`Exp.ready( fn )`	run when the page is ready
`Exp.i18n( text, params )`	a text from the `strings` of `exp_config()`
`Exp.on( name, fn )`, `Exp.off( name, fn )`, `Exp.emit( name, data )`	page-wide events; prefix your names (`myext:saved`)
`Exp.register( name, init )`, `Exp.start( root, only )`	start behavior from HTML (`data-*` markup)
`Exp.prefs.get( name, fallback )`, `Exp.prefs.set( name, value )`	user preferences
`Exp.keys.bind( combo, fn, options )`	keyboard shortcuts
`Exp.token()`	the page's form token
`Exp.reducedMotion`	`true` when the user asked for less motion

Server calls (Exp.io)

API	Does
`Exp.io.call( fn, args, options )`	an ezjscore server function; POST by default; returns a Promise with the function's content, rejects with an `Exp.io.Error`
`Exp.io.form( form, options )`	post a form with its files, adding the form token
`Exp.io.poll( fn, args, options )`	call again every every ms until `until( content )` is true
`Exp.io.url( path )`	the address of a path in the current siteaccess

JavaScript

```
Exp.io.call( 'myext::items', [ 2 ], { method: 'GET' } ).then( function ( items ) {
    // use items
}, function ( error ) {
    // error.kind: signedout, refused, server, network, timeout, invalid
} );
```

Modules

Module	API
`exp::dialog`	`Exp.dialog.open( options )`, `confirm( text )`, `alert( text )`, `form( url, options )`, `create( options )`; markup `data-exp-dialog`
`exp::datatable`	`$( el ).expDataTable( options )`; markup `data-exp-datatable`
`exp::datepicker`	`$( el ).expDatePicker( options )`; `window.showDatePicker()`
`exp::upload`	`$( el ).expUpload( options )`; markup `data-exp-upload`
`exp::collapse`	`Exp.collapse( conf )`, `$( el ).expCollapse( conf )`
`exp::sticky`	`$( toolbar ).expSticky( options )`, `Exp.sticky.start( toolbar, options )`
`exp::autosave`	`new Exp.autosave.AutoSubmit( conf )`, `$( form ).expAutosave( conf )`, `$( el ).expPreview( conf )`

All dialogs return Promises and use the browser's own `<dialog>` element.

Under a Content Security Policy

Exponential UI is loaded from files, and its modules start from `data-*` markup, so a page built with it needs no inline script (CSP: moving inline scripts into files). Pass your page's texts through `exp_config()` rather than an inline script.

Related pages

- Previous: Error codes and module results
- Next: admin4 components and tokens
- ezjscore server functions reference

- YUI removed from Exponential
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