

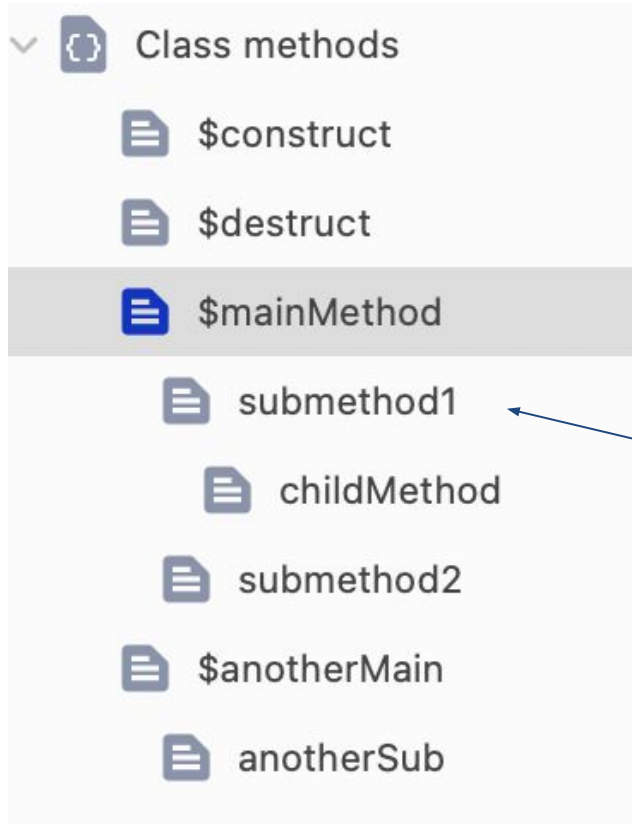


Studio 12

Omnis Studio 12

What's New. What Matters.

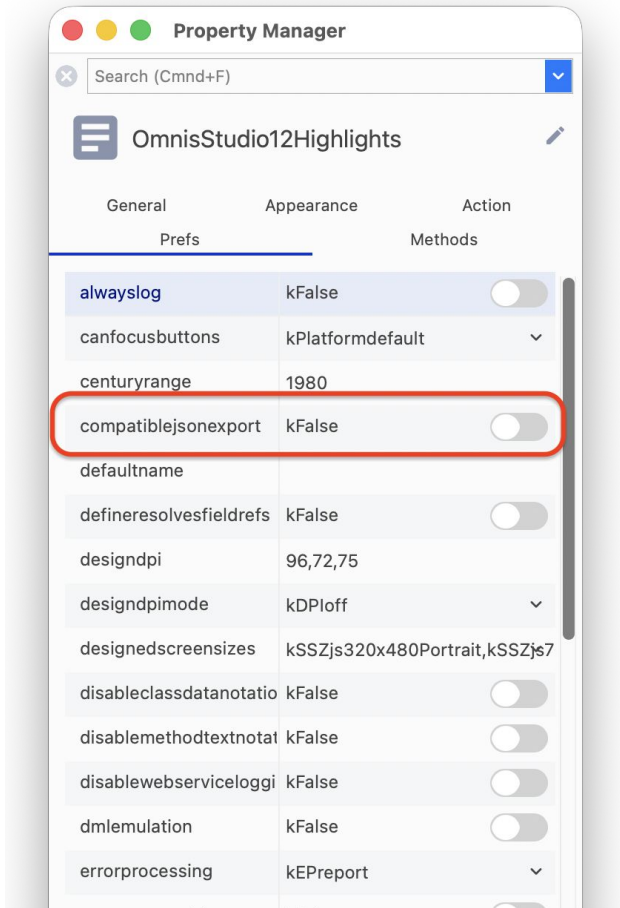




Method Indentation

Improving readability and consistency

- Visually group related methods
- Organise large classes more clearly
- JSON export preserves indentation
- **Ctrl/Cmnd [or] to indent left or right** or right-click selected methods



JSON Export Improvements

Great advantage for teams using version control

- **Optional** removal of method/variable **\$order** metadata
- Reduced Git conflicts and cleaner diffs when working as a team.
- New property allows compatibility with older versions of Omnis.

Touch-Friendly Desktop Apps with Gesture Events

Handle pinch, swipe, and more with ease

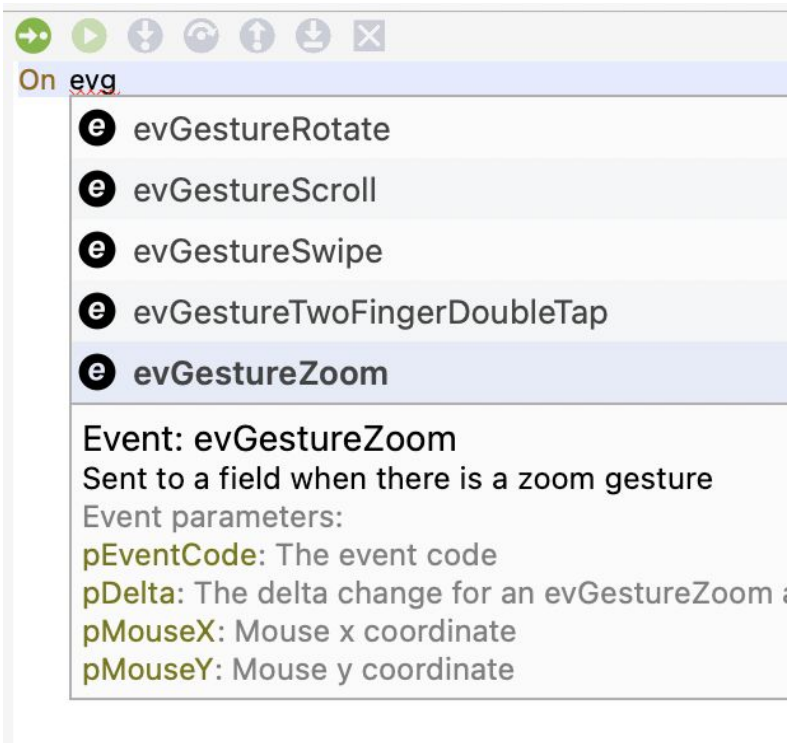


Next-Generation Desktop Interaction

Designed for touchscreens and modern trackpads



- Scroll, Swipe, Rotate
- Pinch-to-zoom
- Two-finger double-tap



Using Gestures in Desktop Apps

Build apps that feel native on modern hardware

- Enabled via new \$touchgestures root, library or field property
- With full event parameters: deltas, anchor points, direction, magnification.
- Great for image viewers, dashboards, maps, and custom UI
- No custom platform code required
- **Supported in IDE (List Zooming)**

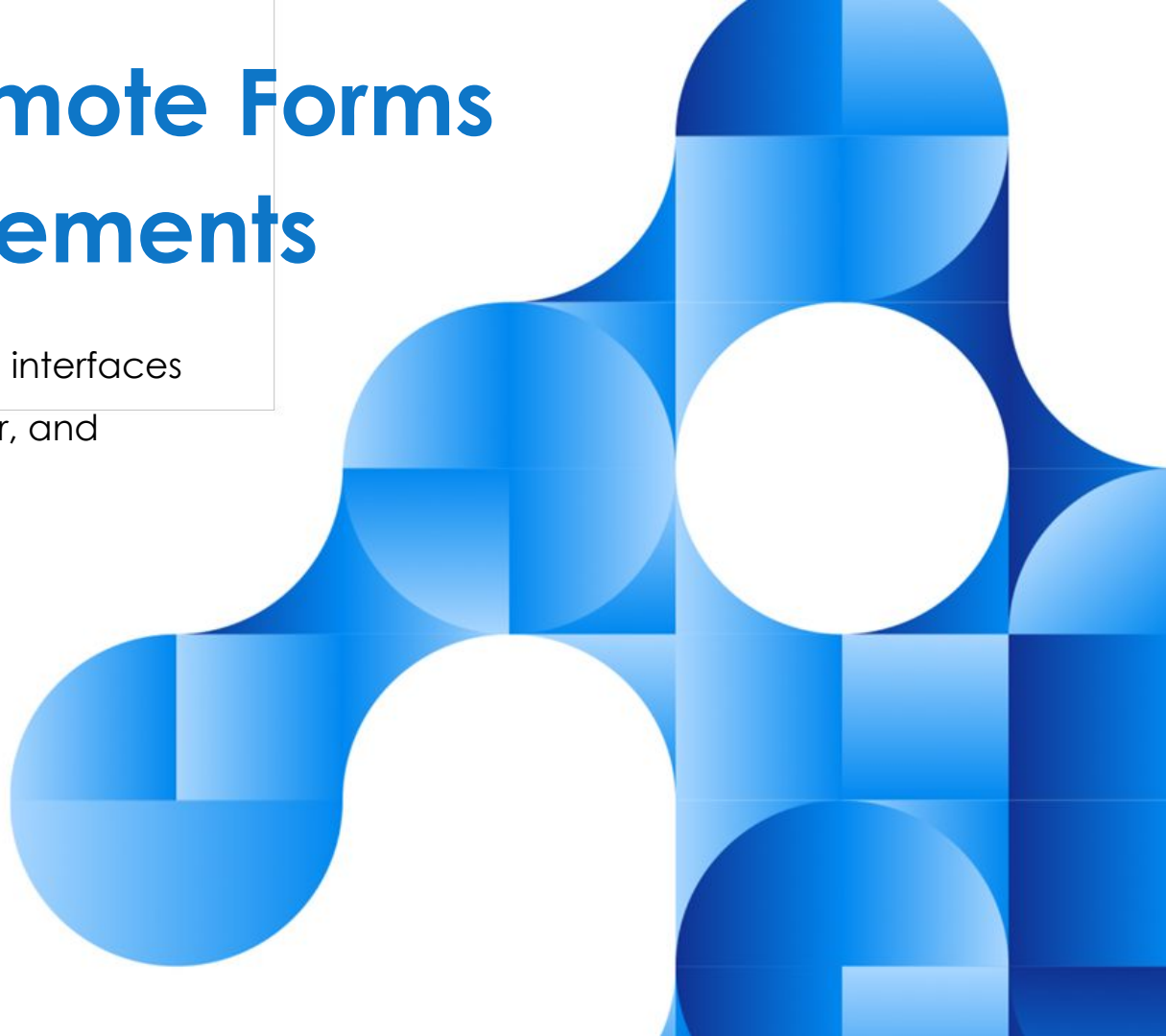
Built in controls will start to support gestures

JavaScript Remote Forms

Major Enhancements

More interactive, modern web-style interfaces

More control over layout, behaviour, and improved UX



Subform Palettes

find best team

```
On evClick  
Calculate IPParams as con(kDq,'grid:Verein=FC St. Pauli',kDq)  
Do $cinst.$clientcommand("subformpaletteshow",row('jsPopup',IPParams,'grid:Verein=FC St.  
Pauli',300,300,kSFSPalettePosFlagRight))  
Do iDataList.$search($ref.Verein='FC St. Pauli',kTrue,kFalse,kFalse,kFalse)
```

6	1. FC Heidenheim	Rot/Weiß	Frank Schmidt
8	1. FC Köln	Weiß/Rot	Lukas Kwasniok
12	1. FC Union Berlin	Rot/Weiß	Steffen Baumgart
10	1. FSV Mainz 05	Rot/Weiß	Bo Henriksen
3	Bayer 04 Leverk...	Rot/Schwarz	Xabi Alonso
2	Borussia Dortm...	Gelb/Schwarz	Niko Kovač
16	Borussia Mönch...	Schwarz/Weiß	Gerardo Seoane
4	Eintracht Frankfurt	Schwarz/Rot	Dino Toppmöller
15	FC Augsburg	Rot/Weiß	Jess Thorup
1	FC Bayern Münc...	Rot	Vincent Kompany
17	FC St. Pauli	Braun/Weiß	Alexander Blessin
18	Hamburger SV	Blau/Weiß/Schw...	Steffen Baumgart
9	RB Leipzig	Rot/Weiß	Ole Werner

Selected Team

grid:Verein=FC St. Pauli

.. can now target specific rows or cells **directly** or **via search terms**.

`row('jsPopup',IPParams,'grid:Verein=FC St. Pauli',300,300,kSFSPalettePosFlagRight)`

Promises for subforms

The promise returns from the **subformdialogshow** and **paletteshow** client commands gives now structured objects (form & errorText)

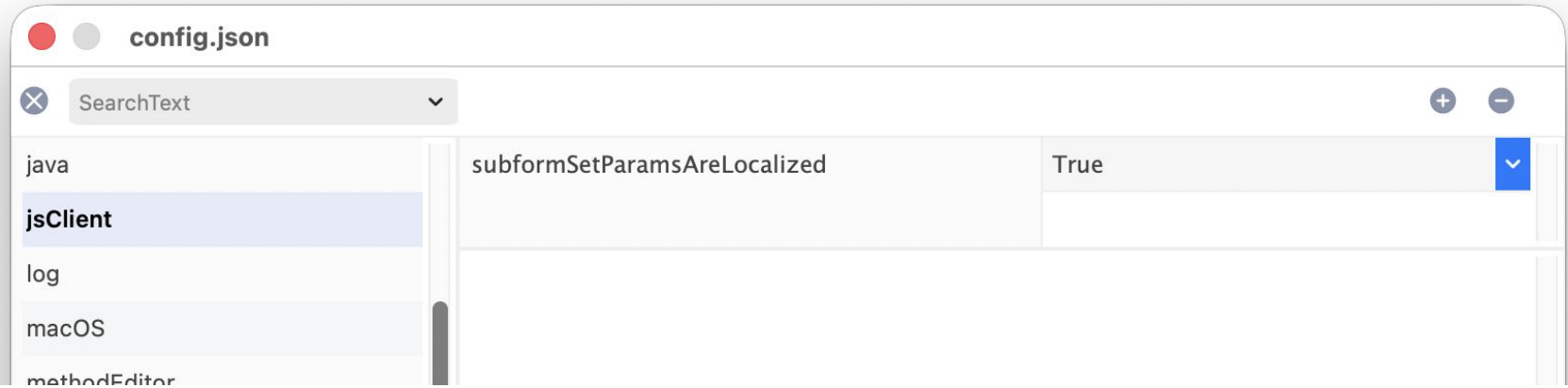
```
Do $cinst.$clientcommand("subformdialogshow",row(...)) Returns lPromise
```

```
JavaScript:lPromise.then( (result) => {  
JavaScript:    lForm = result.form;  
Do lForm.$myMethod()  
JavaScript:});
```

Subform Sets

.. can now use the JS server's localised language setting \$language to alter parameters.

Alters parameters passed to subformset
eg. param separators or decimal separators



DataGrid

.. supports **cell-level drag-and-drop**

5

On evDrop

celldraganddrop

[kJSDataDragCells,kJSDataI ▼

cellhilitcolor

kJSDataDragCells ☒

colorpickercanceltext

kJSDataDropCells ☒

Task

Class

Instance

Local

Parameters

Event param

pColNum

3

pDragDataType

21

pDragField

grid

pDragType

1

pDragValue

Bayer 04 Leverkus

pDropColName

Trikotfarbe

pDropId

2

pDropRow

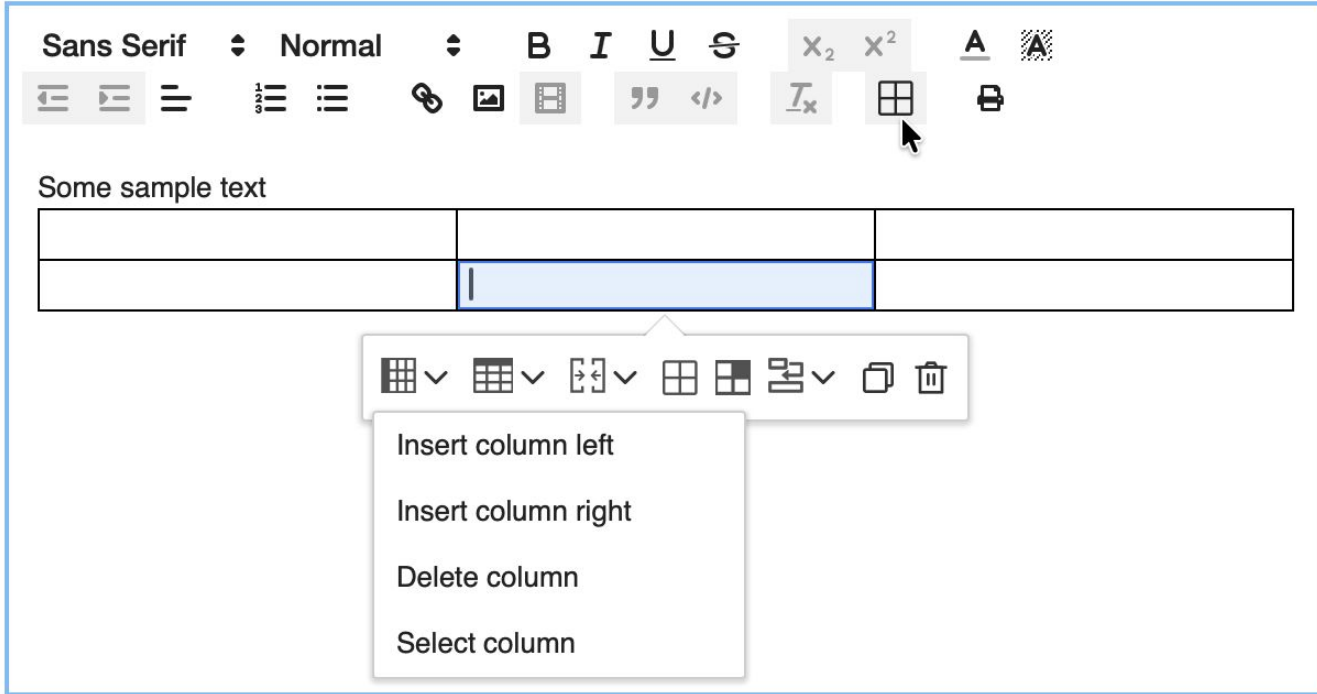
(0 bytes)

pEventCode

18

Rich Text Editor

.. adds **table support with table options**



The screenshot displays a Rich Text Editor interface. The top toolbar contains various formatting options: font face (Sans Serif), font weight (Normal), bold (B), italic (I), underline (U), strikethrough (ABC), subscript (x₂), superscript (x²), text color (A), and background color (A). Below the toolbar, the text "Some sample text" is visible. A table with 3 columns and 2 rows is present. The second column of the second row is selected, highlighted in blue. A context menu is open over this cell, showing options: "Insert column left", "Insert column right", "Delete column", and "Select column". The menu also includes icons for inserting a row, deleting a row, inserting a column, deleting a column, and a trash icon.

Markdown Control

.. gains **scroll-to-position** new property
and **scrollshadows** design properties

Markdown Heading

[You can change the colour of links](#)

Some `<p>inline code</p>` with a horizontal rule above and a table below.

Table Col 1	Table Col 2
Table Data	The table border color and width properties can be

\$headingcolor

\$rulecolor

\$tablemaxwidth

TableM... ▼

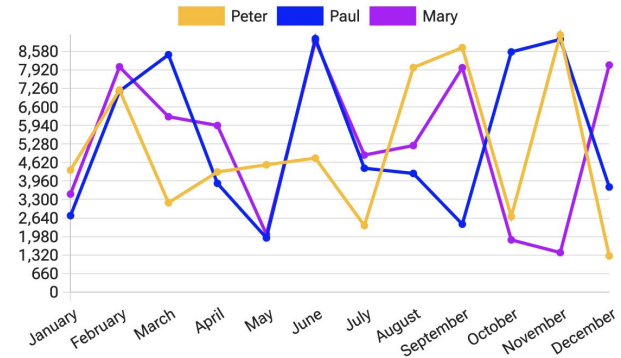
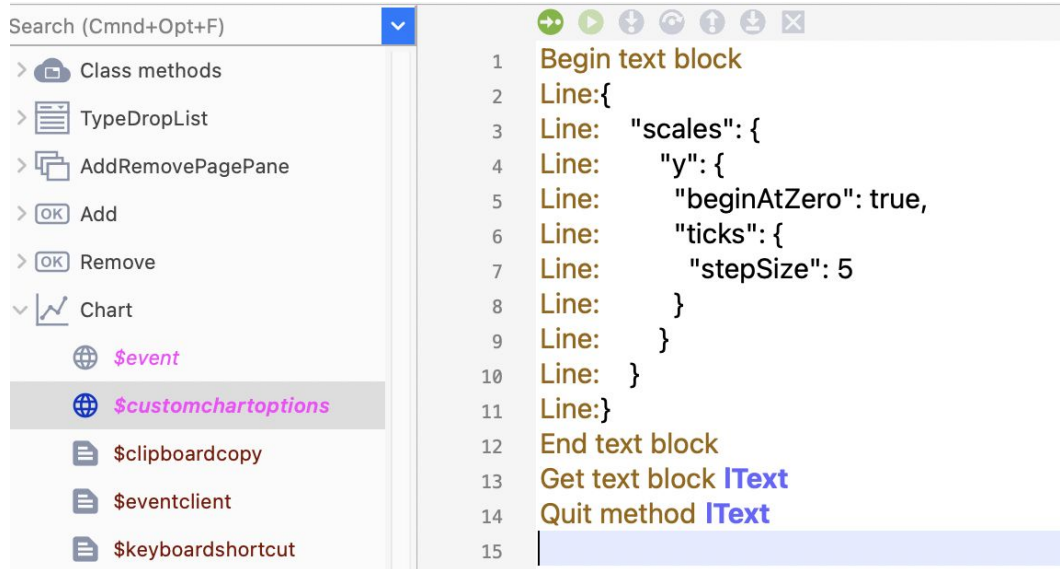
 **MarkdownParser**
Markdown Control

Search

scrollshadowcolor	RGBA(168,168,168,5)  ▼
scrollshadowwidth	0
scrolltoposition	kJSMardownMaintainScroll ▼
	kJSMardownMaintainScroll
	kJSMardownScrollToTop
	kJSMardownScrollToBottom

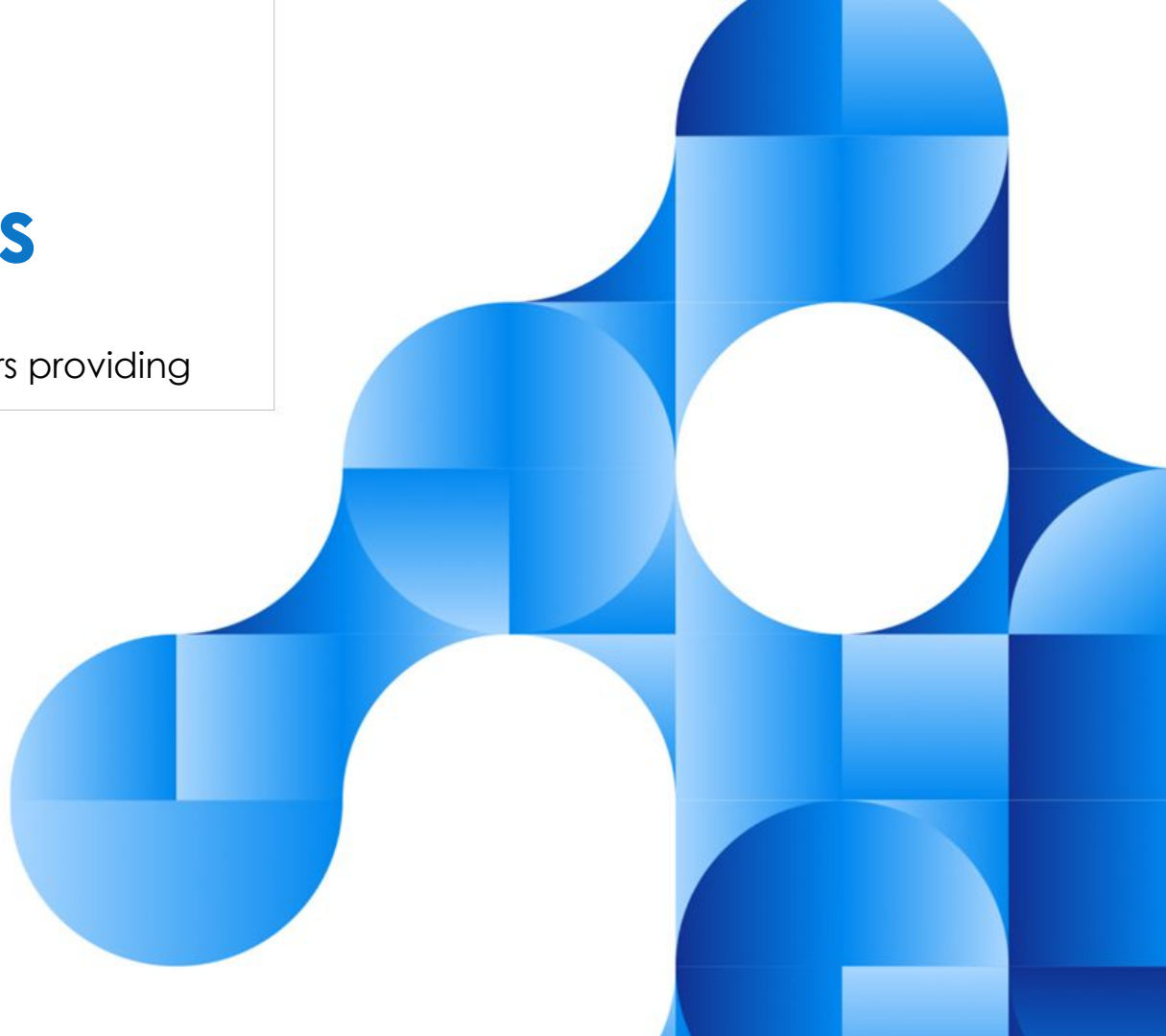
Chart Control

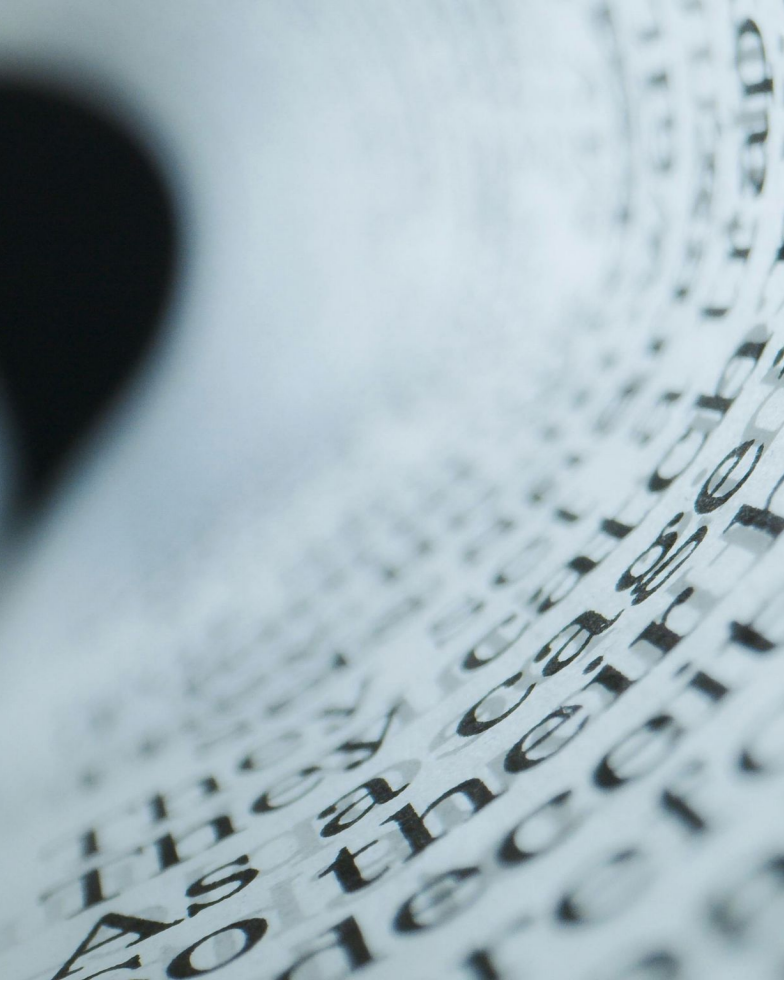
.. accepts custom ChartJS options (see website)
override new built in chart method to define



OW3 Worker Enhancements

New capabilities in the OW3 Workers providing
modern API integration





HTTP Worker - Streaming

Stream content rather waiting for the whole response

- Avoids waiting for the whole response
- Supports SSE (server sent events)
and NDJSON (newline delimited JSON)
- **\$streamresponse=kTrue**
Data will be send to \$ondata immediately.
- **\$ondata**
Receives a row as its single parameter,
which varies based on the Content-Type of
the response.
- **\$minstreamdelay**
the minimum number of milliseconds to wait
between calls to \$ondata

OpenID Connect

Support in OAuth2 Worker



- **\$openidtoken**

If your **authorization** endpoint supports **OpenID Connect**, and you include "openid" in the scope, the \$openidtoken property will be populated with the OpenID token after calling \$authorize()



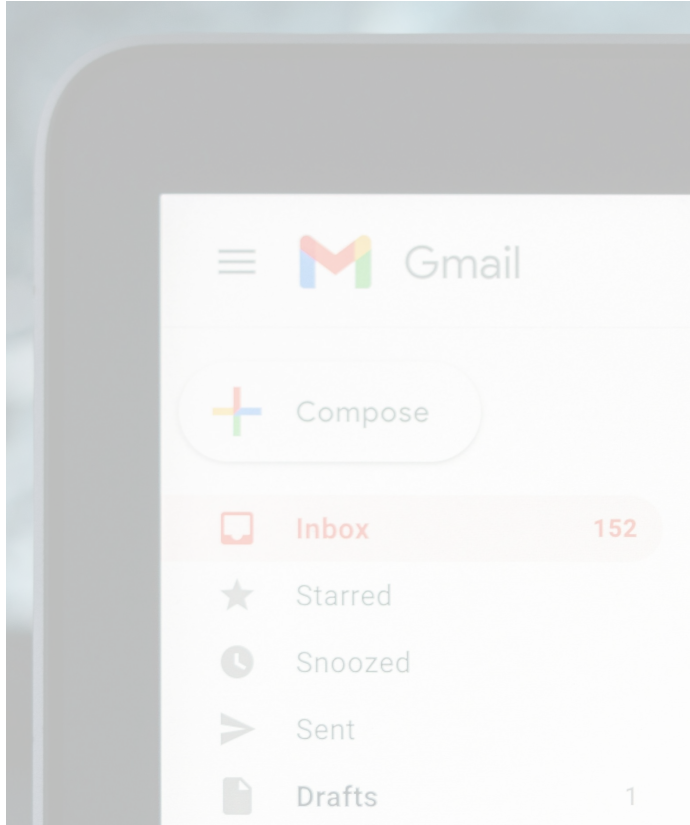
SMTP Worker

Advanced SMTP capabilities for modern email

- Now supports **body-part** headers, providing support for **rich, multimedia email communication vs attachments**.
- The MIMEList sent as vContent in the \$init() method for the OW3 SMTP Worker now supports a **tenth column** bodypartheaders of type Row, representing the Body Part Headers.

New raw MIME message creation

Advanced email **composition** for
third-party integration

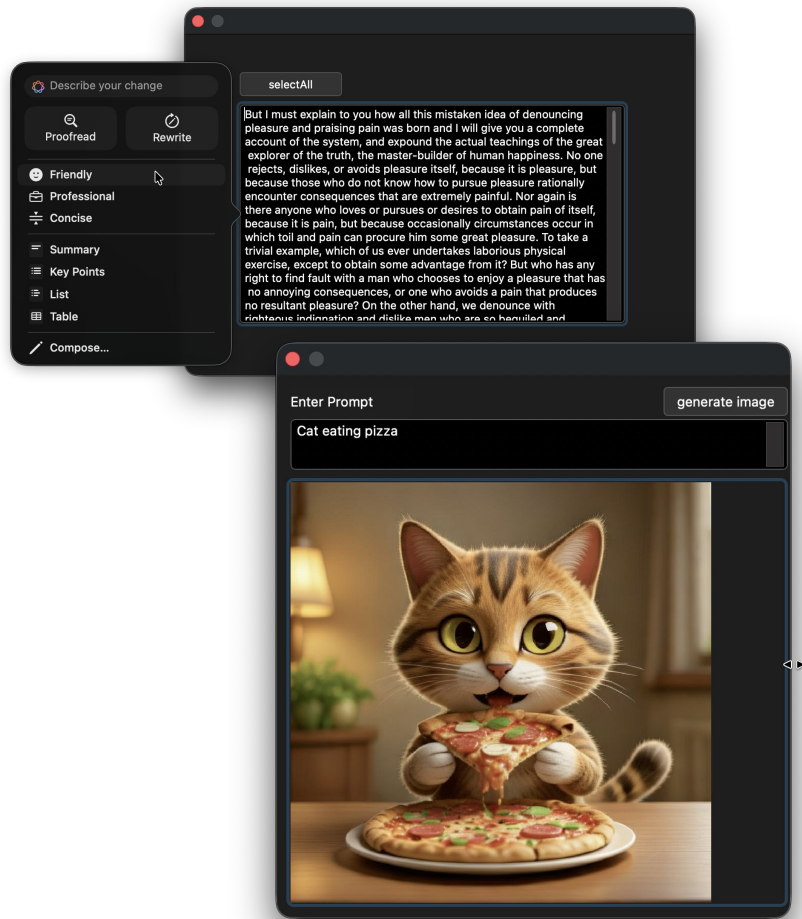


- Integrate with third-party APIs such as Gmail (that require MIME messages)
- **OW3.\$createmimemessage(...)**
Create a raw MIME email message to then send.

macOS Sequoia support and Native AI Tools

Develop and deploy on Apple's latest macOS
and use AI in development and end user apps.





System-Level AI Integration

Built-in AI text capabilities available in every edit field

- **System-level AI writing tools** integrated into edit fields, with **rewrite**, **summarise** etc
- **Image Playground** support for AI-generated images

Supported in design mode
or via notation

Do `$root.$getplaygroundimage(iPrompt,iImageBin)`

Desktop Component Improvements

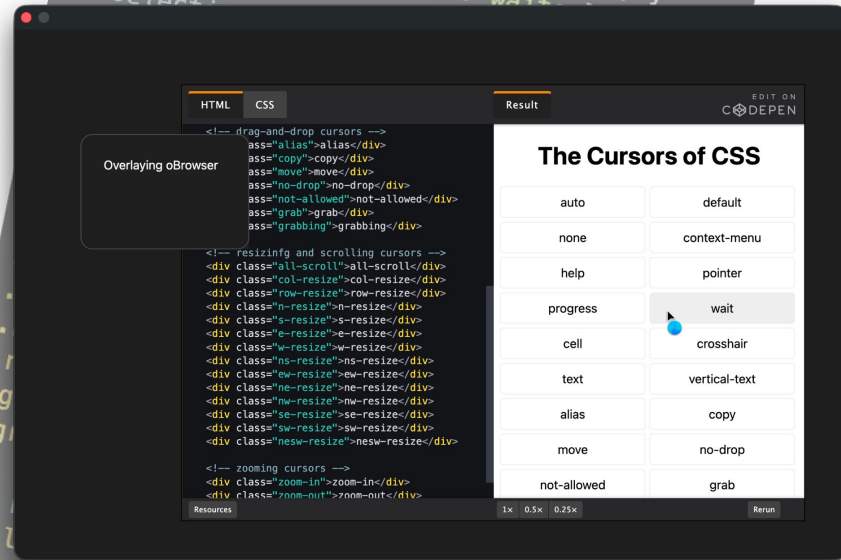
Improved behaviour and modernized functionality



OBrowser

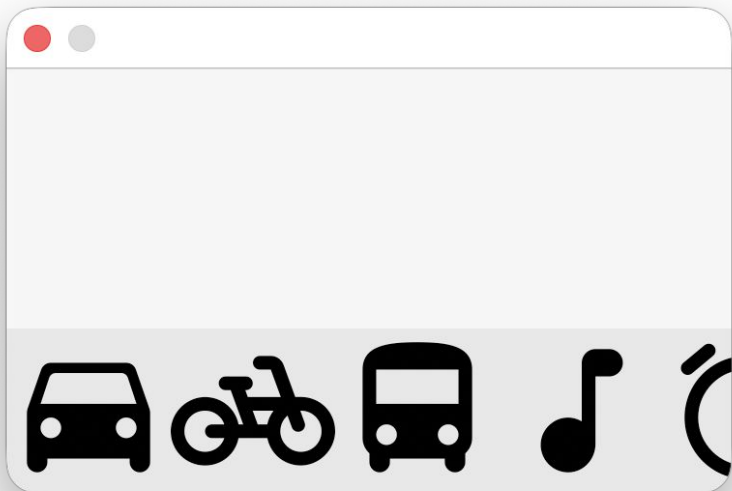
Cursor tracking and component layering control

- You can set the **\$enablecursortracking** property to kTrue to allow embedded web content to control cursor updates via system cursor tracking. For example, to allow **CSS managed cursor** state in the browser.
- The **\$disablecomponentorder** property has been added to the OBrowser window component to allow other window controls to be placed over it by preventing the OBrowser component coming to the front when it gets the focus.



FishEye

Improved scrolling and clipping



- **\$cliptosize** property ensures that content is shown only within the dimensions of the window containing the control.
- **\$usewheeldelta** increases granularity of mouse wheel scrolling
- **\$resetonresize** set to false will preserve the position of scrolled content when the field is resized.

Keyboard shortcuts

... for **window cycling**



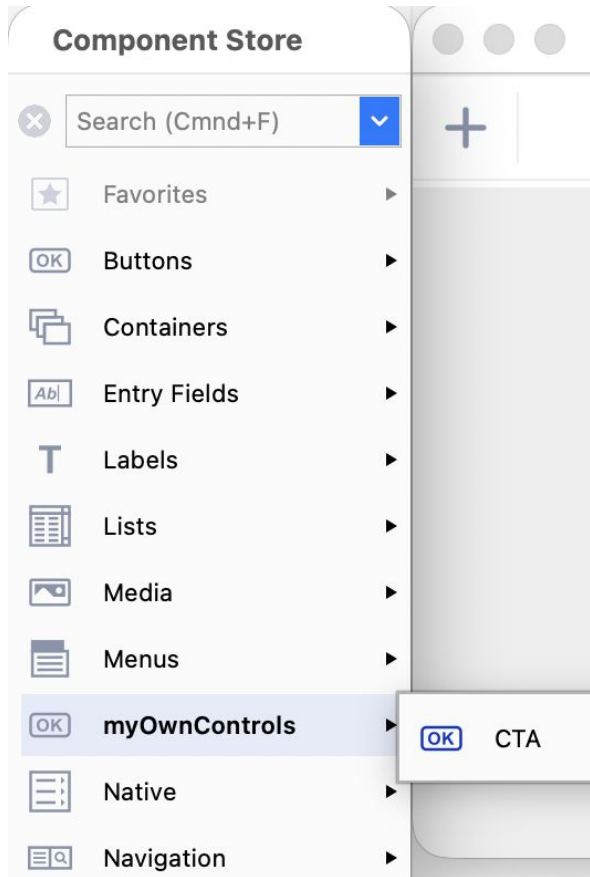
- F11 and Shift F11 on Windows
- Cmd. ` on macOS



User Component Library

A great improvement for larger teams enabling greater component development and re-use.





usercomps.lbs

A new dedicated user library for storing...

- Custom components
- Wizards and Templates
- Reusable UI elements

Empowering teams to build, share, and reuse components efficiently

- Keeps custom components separate from built-in components
- Enables team-wide collaboration for Studio "add-ons"
- Version-control friendly, via built-in VCS or Git with JSON export/import

New Powerful Functions

More power for image processing, file paths, and
lists

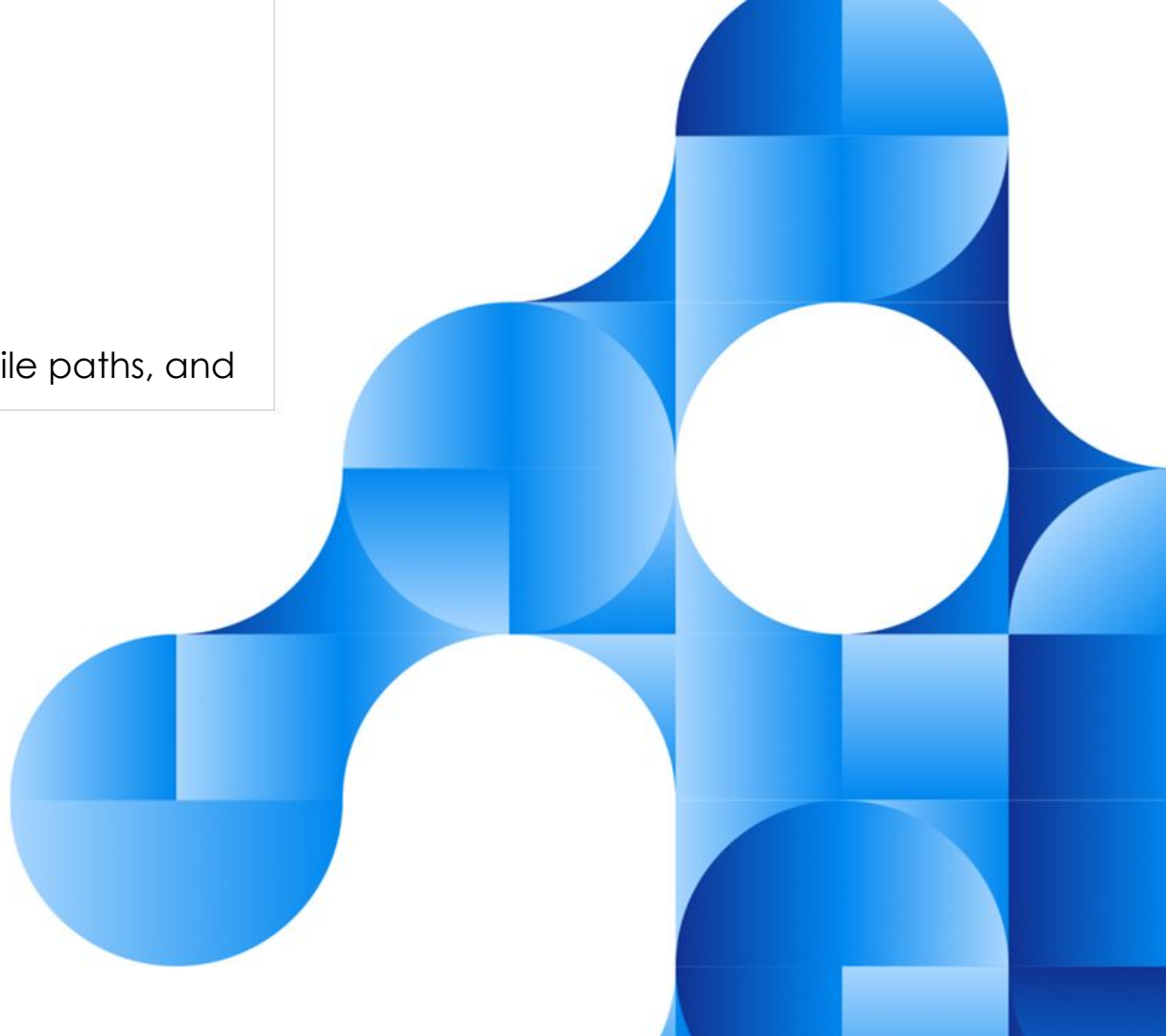
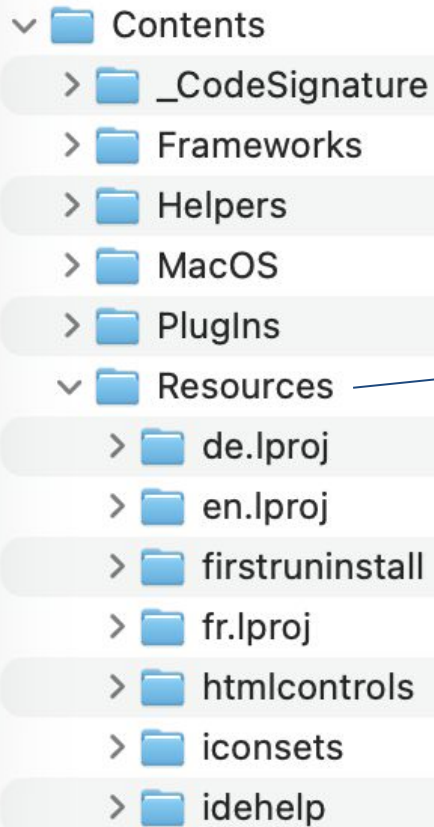




Image Cropping

Crop images programmatically with ease

- **OIMAGE.\$crop()**
- for server-side image manipulation



sys(295)

New sys() function

- **sys(295)**

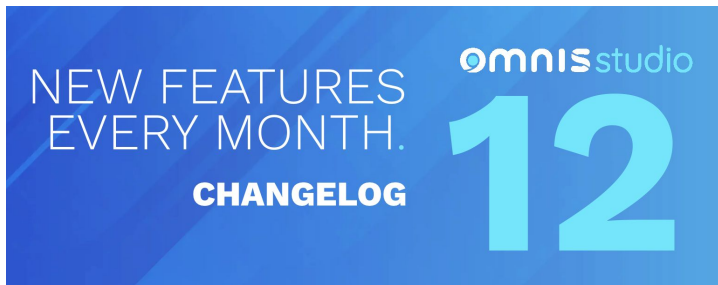
Returns the location of the **program Resources folder** e.g.

/Applications/Omnis Studio 12
42929.app/Contents/Resources/

Omnis Studio 12

Post Release





Online Change Log

Our online change log gives you the 'release highlights'

<https://www.omnis.net/platform/omnis-studio/changelog/>

- **June**

- Subform palette size control
- List & grid cell scaling
- new \$addfromcompstore

- **Sep**

- MCP Limited Preview

- **July**

- Improved debug & trace
- new sys functions
- method editor improvements

- **Oct**

- MCP Limited Preview 2
- More....

- **Aug**

- Improved math conversions
- Headless server logging
- Silent license errors

Omnis Studio 12

MCP Preview Release



omnis built-in

▶ Test Server 🔧 Rebuild ↻ Refresh

● Running - 0 clients

The built-in Omnis MCP server to allow AI control of your development.

🔍 Filter tools...

- create_class**
Creates a new class of the specified type writes 0 >
- delete_class**
Deletes a class from an Omnis library destructive 0 >
- edit_class**
Edits the properties of an existing class destructive 0 >
- move_class**
Moves a class to another folder (or the library root, i... destructive 0 >
- edit_form_layout_breakpoints**
Add/Change/Remove layout breakpoints from a give... destructive 0 >
- lookup_symbols**
Authoritative lookup of Omnis commands, functions, ... read only 0 >
- search_docs**
Searches the Omnis docs (via RAG serv... read only open world 0 >
- close_library**
Closes an open Omnis library by its internal name. Non-... writes 0 >
- create_library**
Creates a new Omnis library file on disk and opens it. Fai... writes 0 >
- delete_library**
Permanently deletes an open Omnis library file from destructive 0 >

MCP Preview

Empowers a developer with - AI development

- Works with many AI clients
- Studio IDE tools
- Developer MCP servers & tools

OMNIS

omnis built-in ● Running - 0 clients

▶ Test Server 🔧 Rebuild ↻ Refresh

The built-in Omnis MCP server to allow AI control of your development.

Tools 29 [View all →](#)

Resources 10 [View all →](#)

Prompts 2 [View all →](#)

Clients 0 [View all →](#)

Recent Activity [View all](#)

- ✓ Session ended 'omnis' - 7655a761f473429588dca... 13:00:51
- ✓ Session ended 'omnis' - f5be13c647274c65ba7fc... 13:00:50
- ✓ Session ended 'omnis' - f82ff4f6a9444f679c5a8... 12:46:26
- ✓ Notification stream opened for session f82ff4... 12:03:04
- ✓ Registered new session for 'claude-code': f82... 12:03:04
- ✓ Notification stream opened for session f5be13... 12:00:32

Server Health [Attention](#)

Uptime 5h 36m 52s

Requests (last 24h) 56

Error rate 14.29%

Most Used Tools (last 24h) [View all](#)

No tools used yet.

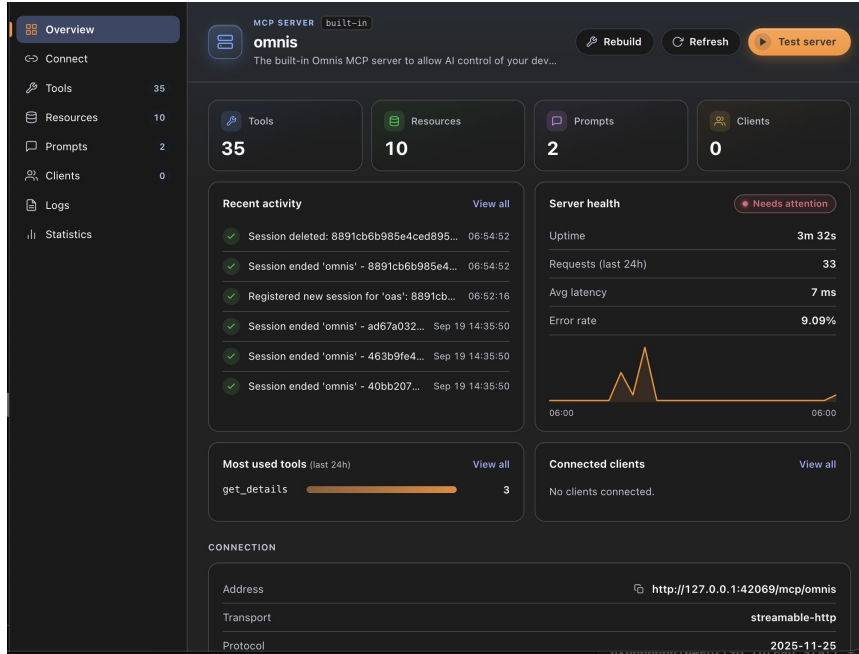
Connected Clients [View all](#)

No clients connected.

CONNECTION

MCP Preview

Empowers a developer with - AI development

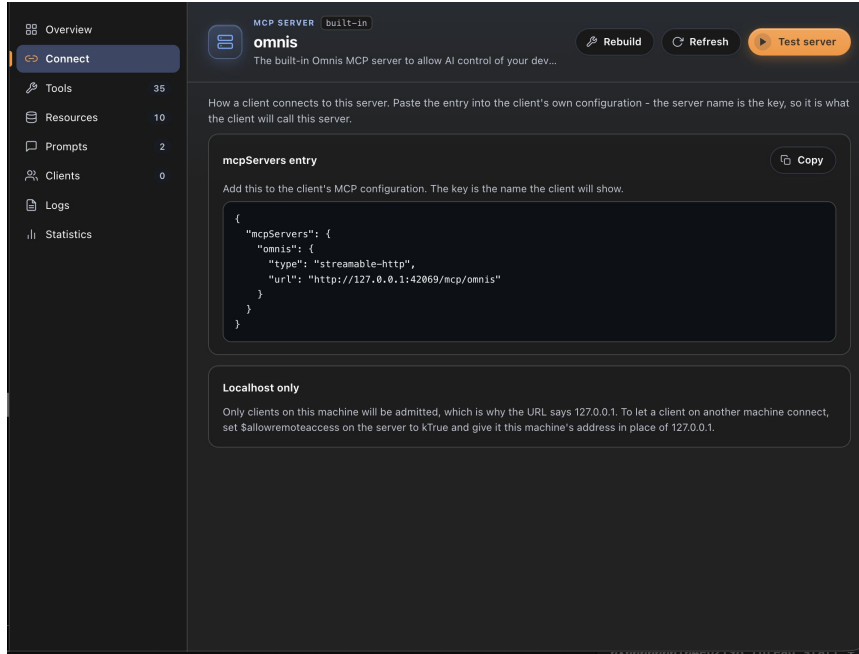


- Overview **dashboard built into IDE**
- Over 35+ IDE Tools
- Includes VCS Tooling
- Your own developer MCP servers have get their own dashboard.

MCP Preview

Empowers a developer with - AI development

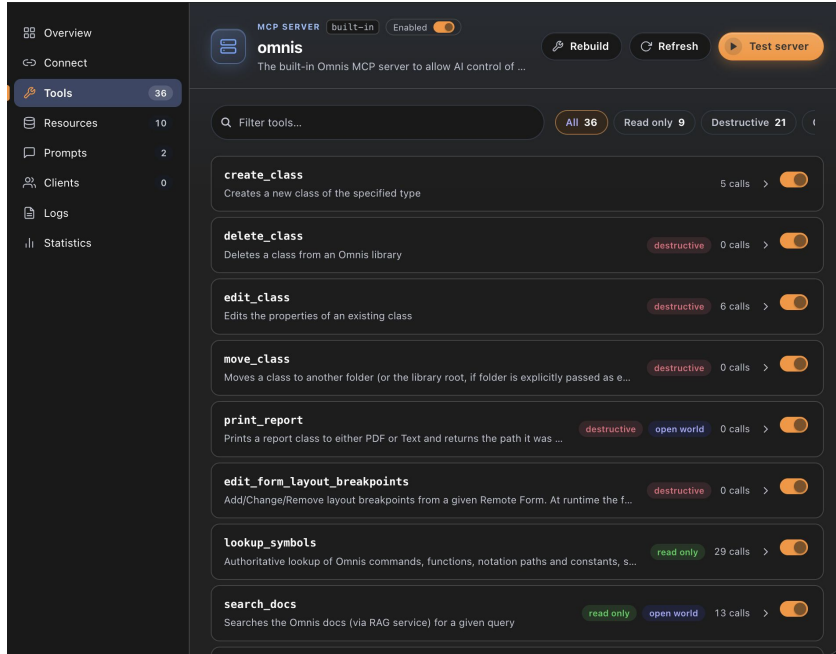
- **Connect** your favorite AI Client
- Claude Chat, Claude Code, GPT...



MCP Preview

Empowers a developer with - AI development

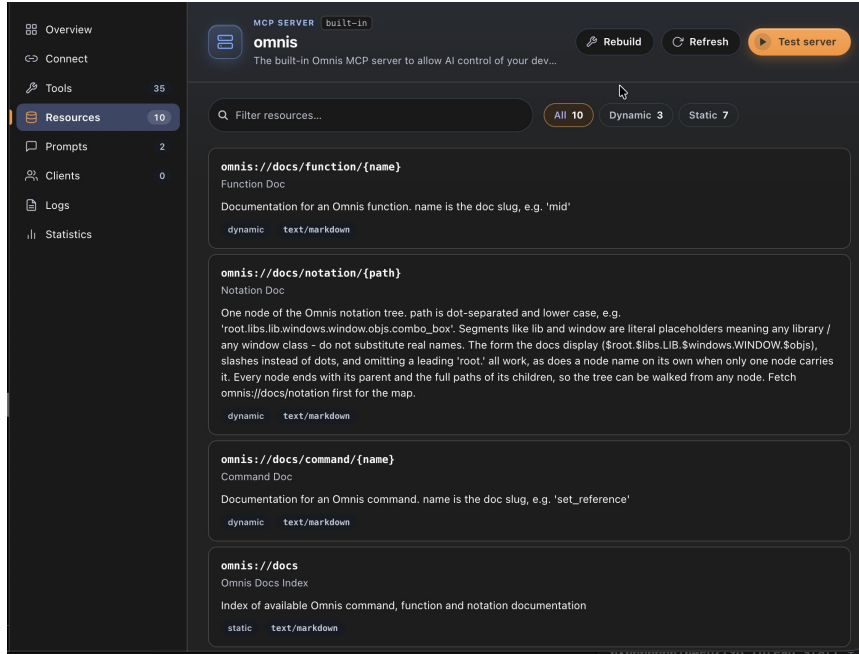
- **MCP Tools** are listed with options to control
- View the tool parameters / json
- Review tool counts on the server



MCP Preview

Empowers a developer with - AI development

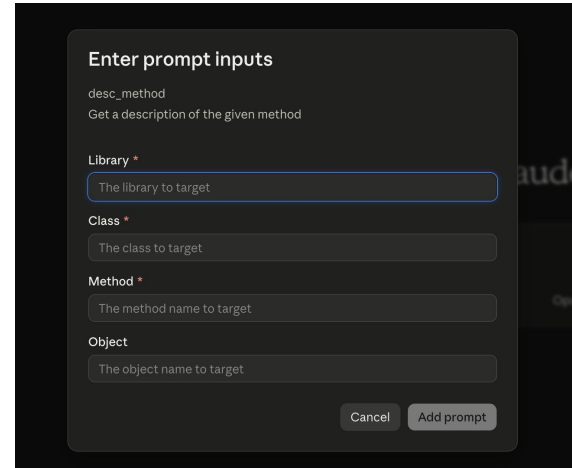
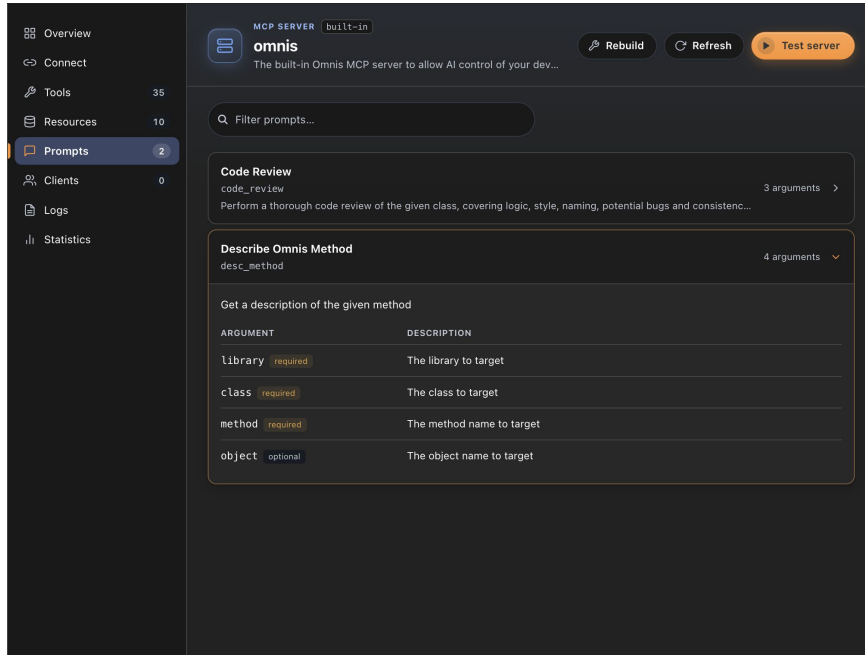
- **MCP Resources**
- Omnis MCP includes a number of useful resources to help guide your AI client



MCP Preview

Empowers a developer with - AI development

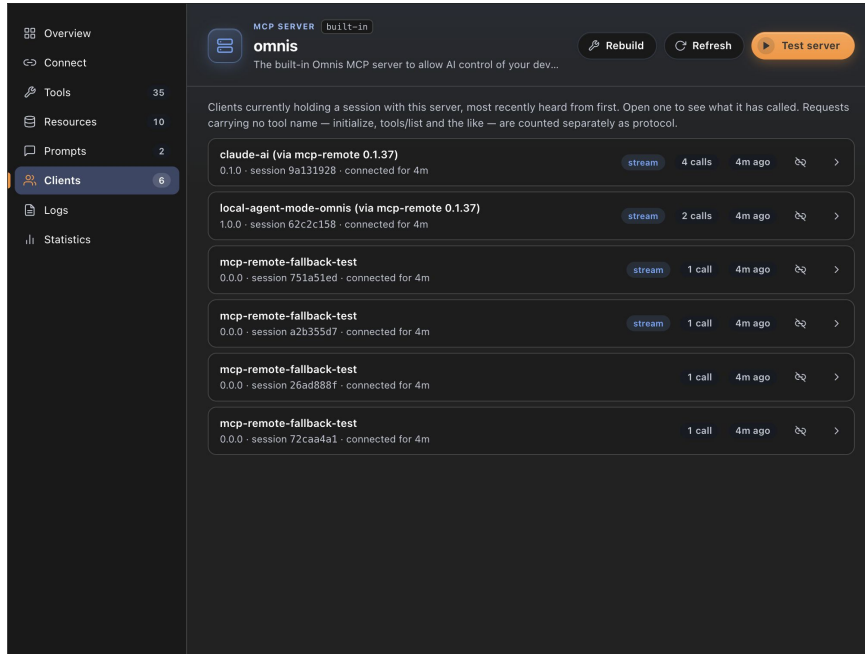
- **MCP Prompts**
- Invoke your Omnis prompts



MCP Preview

Empowers a developer with - AI development

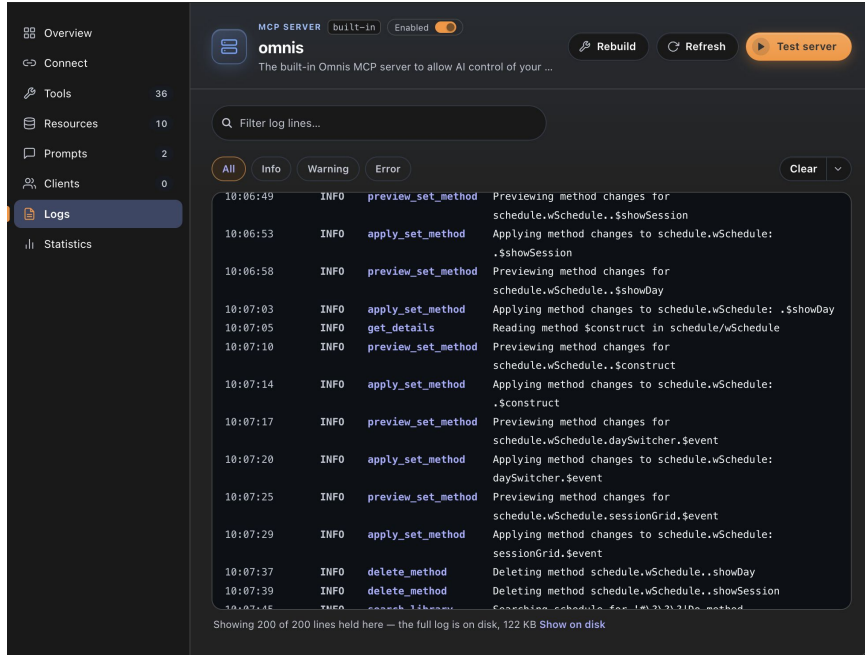
- **Observe your clients**
- Monitor your connected clients



MCP Preview

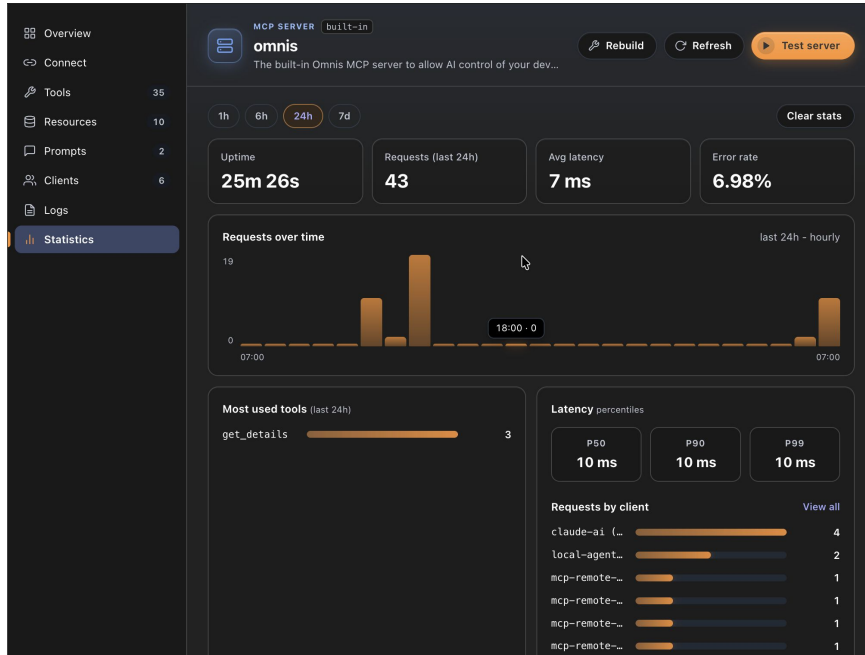
Empowers a developer with - AI development

- **Monitor logs**
- All connections & tool calls logged



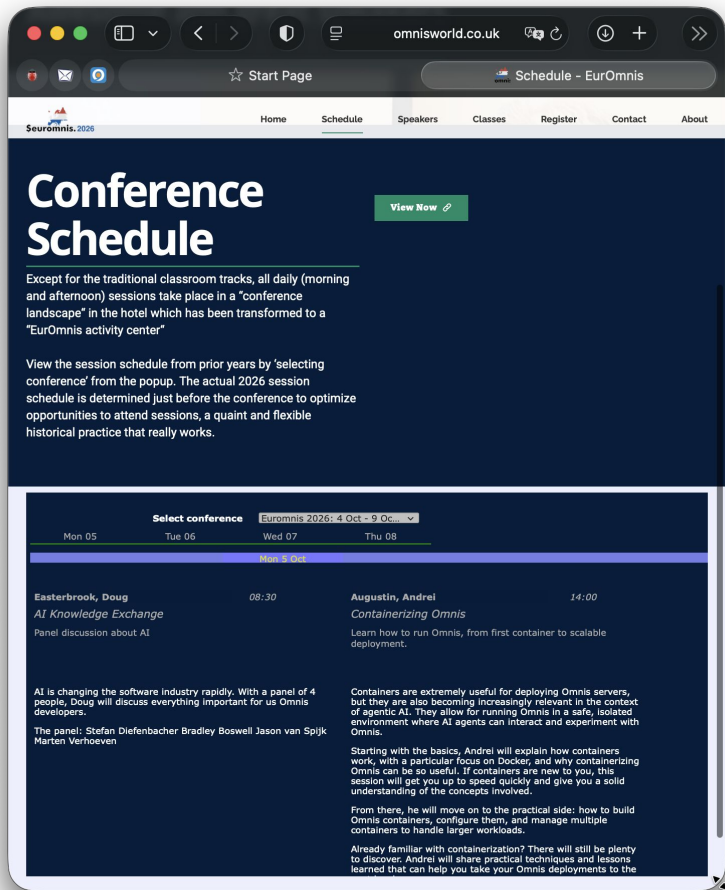
MCP Preview

Empowers a developer with - AI development



- **Monitor statistics**
- Uptime
- Requests
- Latency
- Most used tools





MCP Test



From this..... to....

- **An MCP Test**
- We 'Claude and I' extracted the daily schedule data from the omnisworld website.
- Claude compiles a single JSON file with the conference schedule
- We extract the speaker images...
- We give Claude an empty Library and a challenge to build us a calendar view using the schedule & images



MCP Test

We extracted the speaker images & Claude built a JSON schedule file for the site.

Our Prompt To Claude

We are going to build a nice **calendar for eurOmnis...**

I'm going to give you the **schedule (json), the speaker images (10 of them)** and a nice logo...

Focus on the schedule aspect..

Some cool way to see the days events, perhaps switch days, and see the speaker when an entry is selected...

Build this in the empty **schedule omnis library** - we can make this a **window class for now**, may be later we will make this a remote form.

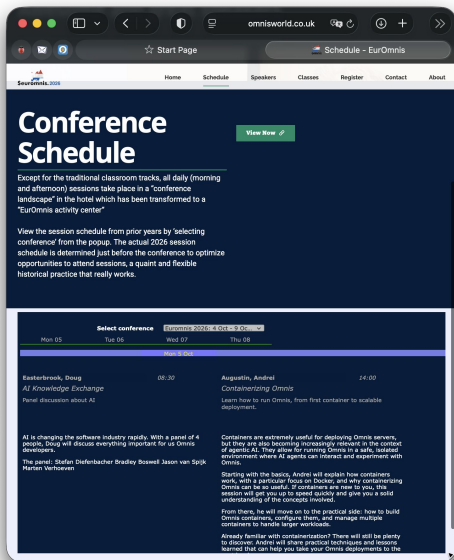
For text fields, to make them transparent you can set the background theme to parent (`kBGThemeParent`)

Text colors can be set to **kColorDefault so they work in light and dark mode.**

For any borders around fields, if you use background rects you can remove the background - setting back pattern to `kPatTransparent`. **Here are the files.... Have fun...**



Video



Built by Opus 5.5 using
OmnisMCP

Conference Schedule

Mon 5 Oct – Thu 8 Oct · 4 days · 23 sessions

Mon 5 Oct
Tue 6 Oct
Wed 7 Oct
Thu 8 Oct

08:30

AI Knowledge Exchange
Doug Easterbrook
Panel discussion about AI

10:00

Click. Open. Act.
Doug Easterbrook
Activating your Omnis app with URL schemes

10:00

Omnis & Kafka
José Lacerda
Using message queuing to exchange information between systems.

14:00

Containerizing Omnis
Andrei Augustin
Learn how to run Omnis, from first container to scalable deployment.

14:00

Brains for Your Business Software: adding AI to your Omnis application
Marten Verhoeven
A practical primer based on Van Beek's experience implementing AI into their systems.

19:00

Backing up PostgreSQL
Mirko Pepa
What are my options?

19:00

Automated Testing of your Omnis application
Marten Verhoeven
How to get value from starting with automated testing

SPEAKER
Doug Easterbrook
Mon 5 Oct · 10:00 · parallel track
Also presenting:
• AI Knowledge Exchange (Mon 5 Oct 08:30)
• Timezone awareness in Omnis (Thu 8 Oct 14:00)

Click. Open. Act.

Activating your Omnis app with URL schemes

Links are a common way to open documents, files, tools, videos, websites, email applications, or phone someone. Many of us are familiar with tel:, mailto:, and https:. You can make a custom URL scheme for Studio to simplify automating business processes.

Imagine embedding links in an Omnis report and emailing them to a business associate or client. Those URL's can:

- open a Studio application (if it's not already open),
- log you in (if you're not already), and then
- open a specific data record inside Studio (if you have permission).

Some useful examples are:

- Emailing a client an invoice (PDF) which they return with a bank transfer. Clicking the invoice number on the PDF then opens Studio to a payment window for the specific order to entering payment details, eliminating navigation.

**Not on ODPP ?
Download Your 90
day Trial Today !**

<https://www.omnis.net/platform/omnis-studio/v12/>

