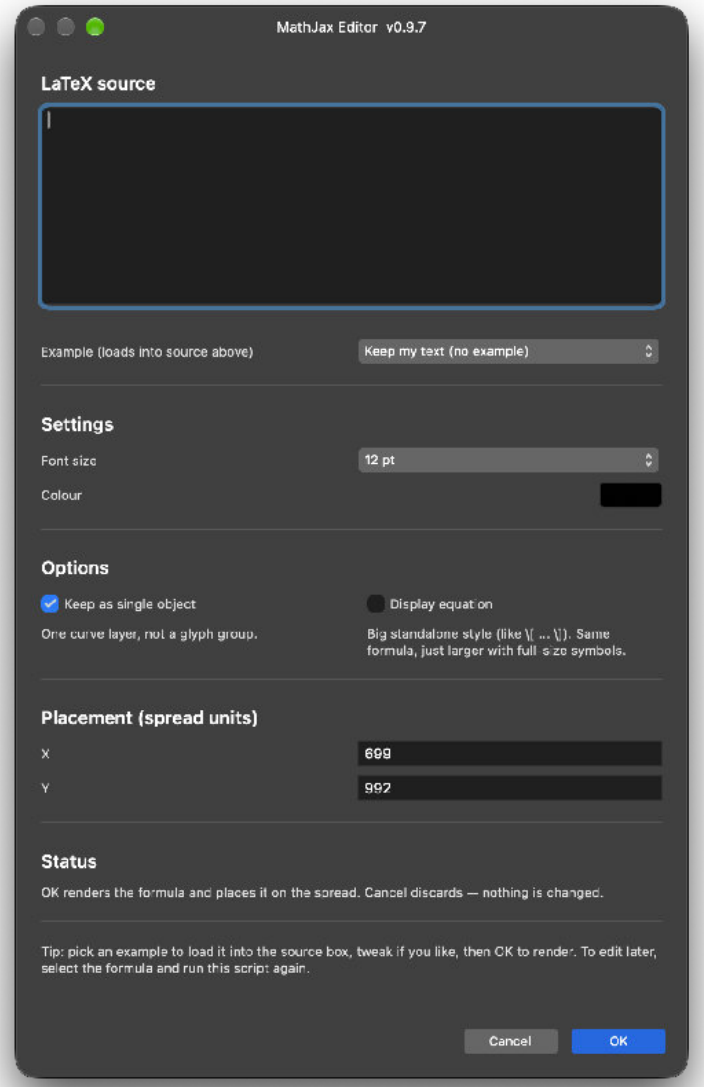
latex-editor



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Type LaTeX, get vector curves on your spread (v0.9.18).

Installation

1. Download the zip file (`latex-editor.zip`: the script, this guide as PDF, and the `tex2svg.bundle.js` library) and unzip it somewhere permanent — Affinity reads the library file from disk on every run, so do not delete the folder afterwards. Note

the folder path.

2. Run the script in one of two ways: **a) Run directly** — Open the Script Editor panel (**Window > Scripting > Script Editor**), paste the contents of `latex-editor.js` into the editor, and press **Run**. **b) Save to Script Library first** — Follow step (a) above, then click **Save As...** to save the script to the Script Library. Open the Script Library panel (**Window > Scripting > Script Library**) and click the saved script once to run it.
3. **Before first use:** set `CONFIG.LIBRARY_FOLDER` at the top of the script to the folder from step 1, and allow that folder in Affinity Settings File System Access. (Desktop alternative: copy `tex2svg.bundle.js` to the Desktop and leave the setting empty — the Desktop must still be allowed.) The script verifies this before showing its dialog and tells you exactly what to fix.

Purpose

You type LaTeX (or pick an example), the script renders it with MathJax, and places the result on your spread as native Affinity vector curves — one merged curve layer by default, or a group of editable glyph curves if you untick the box.

Select any formula the script made — any part of it, even a single curve inside a group — and run the script again to re-edit it: the dialog reopens with your source and settings pre-filled, OK re-renders it in the exact spot, Cancel keeps the original untouched.

Powered by MathJax 3.2.2.

What you can typeset

Mathematics — superscripts and subscripts, fractions (`\frac`), roots (`\sqrt`), calculus (`\int`, `\sum` — limits sit above and below in display mode), slanted Greek letters with scripts, matrices (`pmatrix`), delimiters that grow around their content (`\left( … \right)`), multi-line structures (`align`), tags (`\tag`), text inside math (`\text`), extensible arrows (`\xrightarrow`), symbols (`\degree`, bold Greek), proof trees, boxed borders (`\bbox`, `\enclose{box}` — true outline rings) and struck-through expressions (`\cancel` — solid bars, placed as a group when strokes cross glyphs; `\enclose{circle}` frames not yet handled).

Chemistry — chemical equations with `\ce` (e.g. `\ce{H2O -> H+ + OH-}`) and physical units with `\pu`, via the mhchem package.

Characters without outlines are skipped with a warning — upright Greek (`\upalpha`, `\upbeta`), °C, € and `\unicode{…}` have no vector outline in MathJax's fonts, so the script places everything else and tells you how many characters were skipped. Workarounds: slanted `\alpha` instead of `\unicode{945}`, `^\circ\mathrm{C}` instead of °C, a Publisher text frame for €, `\enclose{box}` instead of `\bbox` borders.

Not supported — anything needing files or the network (`\includegraphics`, `\require` and other on-demand extensions), the `physics` macros (`\qty`, `\dv`, ...), per-glyph `\color` (the whole formula takes the dialog's single colour), HTML links and tooltips,

automatic line-breaking (long display equations overflow — split them and place the parts yourself), and live `\label`/`\ref` numbering (numbers render as plain shapes).

Try these first

Sample formulas courtesy of https://arachnoid.com/latex/ — copy-paste ready, all verified against the engine. Start here when learning the script or after any upgrade.

1. Quadratic equation

```
\displaystyle x = \frac{ - b \pm \displaystyle\sqrt {b^2 - 4ac}
}{2a}\ {\text{when}}\ {ax^2 + bx + c = 0}
```

Fraction with root and a "when" condition in text.

2. Cubic solution trio (very wide — check placement and scale)

```
\displaystyle \left[x = -\frac{1}{2} \, {\left(i \, \sqrt{3} +
1\right)}{\left(\frac{\sqrt{27 \, a^{2} d^{2} + 4 \, a c^{3} - b^{2}
c^{2} - 2 \,{\left(9 \, a b c - 2 \, b^{3}\right)} d} \sqrt{3}}{18
\, a^{2}} +\frac{-27 \, a^{2} d - 9 \, a b c + 2 \, b^{3}}{54
\,a^{3}}\right)}^{\left(\frac{1}{3}\right)} + \frac{-b}{3 \, a}
+\frac{{\left(-i \, \sqrt{3} + 1\right)} {\left(3 \, a c
-b^{2}\right)}}{18 \, {\left(\frac{\sqrt{27\, a^{2} d^{2} + 4 \, a
c^{3} - b^{2} c^{2} - 2 \, {\left(9 \, a b c - 2\, b^{3}\right)} d}
\sqrt{3}}{18 \, a^{2}} + \frac{-27 \, a^{2} d - 9 \,a b c + 2 \,
b^{3}}{54 \, a^{3}}\right)}^{\left(\frac{1}{3}\right)} a^{2}}, x
=-\frac{1}{2} \, {\left(-i \, \sqrt{3} + 1\right)}
{\left(\frac{\sqrt{27\, a^{2} d^{2} + 4 \, a c^{3} - b^{2} c^{2} - 2
\, {\left(9 \, a b c - 2\, b^{3}\right)} d} \sqrt{3}}{18 \, a^{2}} +
\frac{-27 \, a^{2} d - 9 \,a b c + 2 \, b^{3}}{54 \,
a^{3}}\right)}^{\left(\frac{1}{3}\right)} +\frac{-b}{3 \, a} +
\frac{{\left(i \, \sqrt{3} + 1\right)} {\left(3 \, ac -
b^{2}\right)}}{18 \, {\left(\frac{\sqrt{27 \, a^{2} d^{2} + 4 \,
ac^{3} - b^{2} c^{2} - 2 \, {\left(9 \, a b c - 2 \, b^{3}\right)}
d}\sqrt{3}}{18 \, a^{2}} + \frac{-27 \, a^{2} d - 9 \, a b c + 2
\,b^{3}}{54 \, a^{3}}\right)}^{\left(\frac{1}{3}\right)} a^{2}}, x
={\left(\frac{\sqrt{27 \, a^{2} d^{2} + 4 \, a c^{3} - b^{2} c^{2} -
2 \,{\left(9 \, a b c - 2 \, b^{3}\right)} d} \sqrt{3}}{18 \, a^{2}}
+\frac{-27 \, a^{2} d - 9 \, a b c + 2 \, b^{3}}{54
\,a^{3}}\right)}^{\left(\frac{1}{3}\right)} + \frac{-b}{3 \, a} +
\frac{-3\, a c - b^{2}}{9 \, {\left(\frac{\sqrt{27 \, a^{2} d^{2} +
4 \, a c^{3}- b^{2} c^{2} - 2 \, {\left(9 \, a b c - 2 \,
b^{3}\right)} d}\sqrt{3}}{18 \, a^{2}} + \frac{-27 \, a^{2} d - 9 \,
a b c + 2 \,b^{3}}{54 \, a^{3}}\right)}^{\left(\frac{1}{3}\right)}
```

```
a^{2}}\right]
```

All three cubic roots in grown brackets (516 glyphs on one wide line).

3. Taylor series for sin(x)

```
\displaystyle \sin(x) = \displaystyle\sum_{n=0}^\infty
\frac{(-1)^n}{(2n+1)!}\ x^{2n+1} = x - \frac{x^3}{3!} +
\frac{x^5}{5!}- \frac{x^7}{7!}\ ...
```

Sum with limits, fractions, ellipsis.

4. Blackbody power per wavelength

```
\displaystyle P_\lambda = \frac{2 \pi h c^2}{\lambda^5
\left(e^{\left(\frac{h c}{\lambda k T}\right)} - 1\right)}
```

Grown brackets around a stacked exponent.

5. Blackbody intensity per frequency

```
\displaystyle I(v,T) = \frac{2 \, h v^{3}}{{\left(e^{{\left(\frac{h
v}{k T}\right)} - 1}\right)} c^{2}}
```

Thin spaces inside a tall fraction.

6. Hawking radiation with labeled constants

```
\displaystyle \begin{array}{lll}\\ \displaystyle T = \frac{\hbar
c^3}{8\pi G M k_b} \\\\\text{Where:}\\ \\T & = & \text{Temperature,
kelvins}\\ \hbar & = & \text{Planck's constant adjusted}\\c & = &
\text{Speed of light}\\G & = & \text{Universal gravitational
constant}\\M & = & \text{Mass}\\k_b & = & \text{Boltzmann's
constant}\\ \end{array}
```

Array with text rows (139 glyphs).

7. Heisenberg's uncertainty relation

```
\displaystyle \Delta x \Delta p \geq \frac{1}{2} \hbar
```

Relational symbol with upright Planck constant.

8. Gaussian PDF

```
\displaystyle pdf = \frac{1}{\sqrt{2 \pi \sigma^2}}\
e^{-\frac{(x-\mu)^2}{2 \sigma^2}}
```

Root, Greek, negative exponent.

9. Gaussian CDF

```
\displaystyle cdf(a,b,\mu,\sigma) = \displaystyle\frac{1}{\sqrt{2
\pi \sigma^2}} \displaystyle\int_a^b e^{-\frac{(x-\mu)^2}{2
\sigma^2}}\ dx
```

Integral with bounds and upright differential.

10. Standard deviation

```
\displaystyle S_N = \displaystyle\sqrt{ \frac{1}{N}
\sum^N_{i=1}{(x_i - \bar{x})^2} }
```

Root over sum with accented mean.

11. Ackermann function (places as a group)

```
\displaystyle \begin{array}{ll} A(m,n) = \begin{cases} n+1  &
{\text{if}}\ m=0 \\ A(m-1,1) & {\text{if}}\ m>0\ {\text{and}}\ n=0
\\ A(m-1,A(m,n-1)) & {\text{if}}\ m>0\ {\text{and}}\ n>0 \\
\end{cases} \end{array}
```

Nested array + cases: paren and tip outlines cross the tall brace, so the crossing detector routes it to a group (correct output).

12. Schrödinger wave equation

```
\displaystyle i \hbar\frac{\partial \psi}{\partial t}=
\frac{-\hbar^2}{2m} \left(\frac{\partial^2}{\partial x^2} +
\frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2}
\right) \psi + V \psi.
```

Partial derivatives with grown brackets.

13. Dirac equation

```
\displaystyle i \hbar \frac{ \partial \psi }{\partial t}
=\frac{\hbar c}{i} \left(\alpha_1 \frac{\partial \psi}{\partial x^1}
+\alpha_2 \frac{\partial \psi}{\partial x^2} +\alpha_3
\frac{\partial \psi}{\partial x^3}\right) +\alpha_4 m c^2 \psi
```

Indexed alphas with partials.

14. Properties of e

```
\displaystyle \begin{array}{l} e \equiv \displaystyle\lim_{x \to
\infty} \left(1+\frac{1}{x} \right)^x\\ \\ e =
```

```
\displaystyle\sum_{k=0}^\infty \frac{1}{k!}\\ \\ \frac{d}{dx}\ (e^x)
= e^x\\ \\ e^{ix} = \cos\ x  + i\ \sin\ x\  \text{(Euler)}\\ \\ e^{i
\pi} + 1 = 0 \\ \end{array}
```

Array with limits, sums and operator names.

15. Limit definition of a derivative

```
\displaystyle f'(x) = \lim_{\Delta x \to 0} \frac{f(x+\Delta x) -
f(x)}{\Delta x}
```

Limit with subscript approach.

16. Special relativity transforms

```
\displaystyle \begin{array}{lll} x' &=& \frac{x-ut}{\sqrt{1-u^2}} \\
y' &=& y \\ z' &=& z \\ t' &=& \frac{t-ux}{\sqrt{1-u^2}} \\ & &\\
x,y,z,t &=& \text{fixed coordinates} \\ x',y',z',t' &=& \text{moving
platform coordinates} \\ u &=& \text{normalized velocity, v/c}
\end{array}
```

Aligned array with text rows.

17. Square wave series

```
\displaystyle y =  \frac{4 \displaystyle\sum_{n=1}^{\infty}
\frac{\sin\ \omega t\ (2n-1))}{2n-1}}{\pi} = \sin\ \omega t +
\frac{1}{3} \sin\ 3\omega t -  \frac{1}{5} \sin\ 5\omega t\ ...
```

Nested sum inside a fraction.

18. Fourth-order polynomial regression matrix (wide)

```
\displaystyle  \begin{pmatrix} n & \sum{x_i} & \sum{x_i}^{2} &
\sum{x_i}^{3} & \sum{x_i}^{4}\\ \sum{x_i} & \sum{x_i}^{2} &
\sum{x_i}^{3} & \sum{x_i}^{4} & \sum{x_i}^{5}\\ \sum{x_i}^{2} &
\sum{x_i}^{3} & \sum{x_i}^{4} & \sum{x_i}^{5} & \sum{x_i}^{6}\\
\sum{x_i}^{3} & \sum{x_i}^{4} & \sum{x_i}^{5} & \sum{x_i}^{6} &
\sum{x_i}^{7}\\ \sum{x_i}^{4} & \sum{x_i}^{5} & \sum{x_i}^{6} &
\sum{x_i}^{7} & \sum{x_i}^{8} \end{pmatrix} \begin{pmatrix}
a_0\\a_1\\a_2\\a_3\\a_4 \end{pmatrix}= \begin{pmatrix} \sum{y_i}\\
\sum{x_i} {y_i}\\ \sum{x_i}^{2} {y_i}\\ \sum{x_i}^{3} {y_i}\\
\sum{x_i}^{4} {y_i} \end{pmatrix}
```

5×5 matrix with sum vectors (150 glyphs).

19. Einstein field equation

```
\displaystyle R_{\mu v} - \frac{1}{2} R g_{\mu v} + \Lambda g_{\mu v}  = \frac{8 \pi G}{c^4} T_{\mu v}
```

Subscripted tensors with capital Lambda.

Troubleshooting

- **Double image while re-editing is expected.** The dialog paints a live preview over your original, so you see both until you commit: OK replaces the original with the preview, Cancel keeps the original and discards the preview. There is no way to hide the original mid-dialog (the SDK offers no hide/show for nodes), so the ghost is cosmetic and never affects output.
- **If it looks wrong, flip the box.** Ticked (single merged layer) and unticked (editable group) render through different geometry paths by design, so the same formula can look different each way: white bands or gaps in one mode and clean in the other is diagnostic information, not just a workaround. Re-run the other way; note the mode (the success alert and log both record it) when describing the problem.
- **Crossing strokes always land as a group.** Formulas with strokes crossing glyphs (`\cancel` family) are detected and placed as an editable group even when ticked, with a logged reason and alert note — that is the correct output, not a failure.
- **Characters may be skipped with warning.** Upright Greek, °C, € and `\unicode` have no vector outlines; the run reports how many were skipped (console + alert) with guide workarounds above.
- **Still broken both ways?** Note the formula, the mode, the console block (`Render OK`, bbox lines) and what you see at 100% and 400%.

Start from a clean slate

- **Fresh formula:** click empty canvas (or Esc) so nothing is selected before running. A stray selection on an old formula turns the run into a re-edit replace instead of a fresh insert — the most common "where did my formula go / why did that one change" cause.
- **Re-edit:** select only the intended formula first. Multi-select uses the first formula found and says so in the dialog.
- **Cancel is always safe:** Cancel keeps the original untouched, so backing out and reselecting costs nothing.

Parameters

The script needs one file: `tex2svg.bundle.js` (the MathJax engine).

> *Before first use: `CONFIG.LIBRARY_FOLDER` ships as `""`, which means "look next to the script" — keep the bundle next to `latex-editor.js` and there is nothing to*

configure. To use a shared folder instead, set it to a real folder on your machine.

Lookup order (first readable wins):

1. Your configured library folder (`CONFIG.LIBRARY_FOLDER`, when set) — the path that works for Scripts Library installs.
2. `tex2svg.bundle.js` on the Desktop — the actual zero-edit fallback.
3. The script's own folder — only for runs from a checkout on disk (Library installs resolve elsewhere, so downloaders should ignore this one).

The containing folder must be allowed in Affinity Settings File System Access, or the script cannot read the library and will tell you which places it looked.

All user-tweakable settings live in the `CONFIG` object at the top of the script (default font size, colour, display mode, single-object default, placement fraction, retry budget, bundle filename).

"Display equation", explained

LaTeX sets math two ways, and this checkbox picks between them:

- **Unticked = inline** (`\( … \)`): small and compact, made to sit inside a line of text. Big symbols stay small and their limits squeeze to the side — a Σ keeps tiny `n=1` / `∞` off to its right.
- **Ticked = display** (`\[ … \]`): the same formula set big, the way an equation looks standing on its own line. Symbols grow full-size, limits move above and below (Σ with `n=1` under it, `∞` over it), fractions and integrals get taller with more air around them.

The dialog says it exactly like this: *"Big standalone style (like [...]). Same formula, just larger with full-size symbols."* At 12pt, the stock fraction example renders 347×75 unticked vs ~490×124 ticked.

Two honest caveats. Our formulas are free-floating objects, not flowing text — so inline-vs-own-line is about the *look*, not text flow. And the script does not center the equation or add spacing around it: you place it with X/Y like any other formula. The checkbox changes the internal layout and size, nothing else.

Dialog

- LaTeX source box + example dropdown that loads straight into the source box in the same dialog (basic, fraction, integral, sum, Greek, matrix, `\ce` chemistry).
- Font size and colour picker.
- "Keep as single object" checkbox (default on): one merged curve layer for the whole formula. Untick for separate editable glyph curves in a named group. "Display equation": big standalone style (like `\[ ... \]`) — same formula, just larger with full-size symbols (see above). The two options sit side by side in their own Options section, each with its note underneath; the choice is stored on the formula and offered back on re-edit.

- Fresh formulas: X/Y placement editors (spread units, default 40%/40% of the visible spread). Re-edits: replaced in place, position kept — select any part of the formula (ungrouped fragments without a tagged ancestor start a fresh insert instead).
- Status line is live — it shows the outline count for valid source or the friendly error for invalid source as you type, so nothing waits until OK. Render errors still return you to the same dialog with values preserved and an actionable message. Cancel always exits without changing anything. (Colour has no live preview — the picker emits no dialog events; it applies at OK.)

Live preview (experimental)

Set `CONFIG.LIVE_PREVIEW = true` to paint the formula on the canvas while the dialog is open: every change re-renders transiently, so what you see is what OK will commit. Invalid or empty source clears the preview instead of alerting; Cancel discards it and leaves everything (including the re-edit original) untouched. Colour stays OK-time-only — the picker emits no dialog events, so recolour only applies at commit. On by default since v0.9.18 (verified in-app).

Known limitations

- Old formulas keep working: anything made by an earlier version of this script re-edits cleanly.
- Ungrouped/broken-apart curves lose their container tag and are treated as a fresh insert (duplicates rather than replaces).
- Letters with holes in them (o, e, p, d) depend on the MathJax version's outlines — after any MathJax upgrade, eyeball a formula containing them at large zoom before trusting it.
- "Display equation" changes the internal layout and size only (see above) — centering and spacing around the formula are left to you.
- Custom font sizes beyond the dropdown list: set `CONFIG.DEFAULT_FONT_SIZE`.

Changelog

0.9.20 - Code-review cleanup round two (no render/insert logic change, live-tested): DialogResult comparison simplified to the confirmed `==` idiom used everywhere else in this toolkit (dropped needless manual `.value` unwrapping); fatal setup/render failures now also go through `console.error`, not just the custom log() wrapper; pasted LaTeX gets an `isWellFormed()`/`toWellFormed()` guard before any regex work; the ~100 duplicated lines of tag/compound-command plumbing shared by the single-object and group insert paths are now one `buildPlacementAndTagCommands()` + `commitSubCommands()` pair; `createCompoundCommand` swapped for the `CompoundCommandBuilder` idiom used by every other multi-command script in the repo; two duplicated/leftover comment blocks removed.

0.9.19 - Two bug fixes from a code review: (1) the fatal-error cleanup path referenced a

variable out of scope, so it silently never ran — it's now hoisted correctly; (2) the selection used for re-edit detection is now captured before the SDK modules that can clear it are loaded, matching this toolkit's documented safe require order (live-tested: this build's object selection already survived that load, so no behaviour change was observed, but the ordering now matches the documented-safe pattern defensively). No render logic change.

0.9.18 - Re-edit wording: any part of a formula selects it for re-edit. Live preview default on (verified in-app).

0.9.17 - Live canvas preview behind CONFIG.LIVE_PREVIEW (default off): transient re-render on every change with change-key gating, cleared on invalid/OK/Cancel; commit path byte-identical. Colour stays OK-time-only (no picker events).

0.9.16 - Live dialog status: outline count or friendly error updates as you type (never an alert, insert, or undo); render stays OK-gated. Colour remains OK-time-only (picker emits no dialog events).

0.9.15 - Crossing detector refined to distinct crossing points: single tangent touches (sqrt corners) enclose zero area and stay single; real voids (cancel, X centers) still route to group. Reader samples: 19 verified formulas, troubleshooting + clean-slate guidance.

0.9.14 - Stroked rect outlines (`\enclose{box}`) render as rings, not slabs: `fill="none"` rects emit outer + inner loops (stroke centered on the path), which even-odd fill resolves to an outline band. Solid rects (fraction rules) unchanged. `<ellipse>` frames remain unhandled (next known gap).

0.9.13 - Crossing strokes fall back to group: proper outline crossings (cancel strikes, X centers — exact segment test, not bbox guesswork) route ticked formulas to the proven group path with a logged reason and alert note, instead of voiding under merged fill. Joints, kerned pairs, labels and abutting segments stay single. No insert logic change.

0.9.12 - Double-arrow stubs fixed: the joint trim now also covers wide same-assembly glyph pairs (e.g. the two slid-together heads of `\xleftrightarrow`), single-sided so pairs can never open a gap. Guards (same strip, majority overlap, containment) still exclude kerned pairs, accents and abutting segments. No insert logic change.

0.9.11 - Poisoned-position cascade fixed: re-edit positions are validated (finite, on-spread) with fallback to default placement, placement is re-validated before anything is inserted (nothing commits at garbage coords), commit log records the placement source, and every run logs its version. No render logic change.

0.9.10 - Clipped loops stay closed: visible runs of a cut loop are stitched end-to-start with boundary connectors into one M...Z loop, so cut shafts keep their fill area instead of collapsing to zero-area slivers (the white uncolorable-stem defect, both modes). Residual: brace center-tip curls may still interleave (union-class, bbox-pinned in tests). No insert logic change.

0.9.9 - Arrow joints fixed: nested-svg viewports now offset and clip (shafts no longer

overshoot; also fixes leftarrow placement and brace-segment bleed), and shafts trim back to sibling head-stub edges so merged single objects show seamless butt joints instead of knockout bands. Residual: brace center-tip curls may still interleave (union-class, bbox-pinned in tests). No insert logic change.

0.9.8 - Coverage fixes from user testing (22-item battery: 18 pass): `<polygon>`/ `<polyline>` support restores `\bbox` borders; characters with no vector outline (upright Greek, ℃, €, `\unicode`) are now counted and warned about in the log and success alert instead of silently skipped, with guide workarounds. No insert logic change.

0.9.7 - Honest library-user setup: install steps now cover bundle placement + CONFIG edit + File System Access; pre-dialog setup probe fails fast with instructions; error/CONFIG wording Library-first. No render logic change.

0.9.6 - Personal path cleaned out: `CONFIG.LIBRARY_FOLDER` ships as `""` (bundle-next-to-script, zero config); shared-folder use is opt-in per machine. Error guidance names the folder only when set.

0.9.5 - Docs and copy release: guide rewritten for clarity (expanded purpose, new "Display equation, explained" section, dialog wording mirrored 1:1, stale group/CONFIG references fixed). No logic change.

0.9.4 - Options section with dividing line above the checkboxes; both checkboxes left-aligned in their columns.

0.9.3 - Two-column options row (ColumnStack in Settings): single-object left with note beneath, display-equation right with note beneath; notes shortened for narrow cells (full text kept here).

0.9.2 - Dialog tidy: comment texts full-width (no second-column gap), example popup separated by a spacer row (no group divider), dialog 120pt narrower; checkboxes shortened with second-line explanations, single-object first. Single-object hardening: named node, select-after-insert, post-placement bbox+parent fingerprint log.

0.9.1 - Helper-document path removed entirely (~190 lines out): `Document.load` second document, helper file write, close/restore dance, `FileSystemApi` import all gone after the byte-parity A/B. One render path; default runs never touch the Desktop.

0.9.0 - No-helper-document rendering (default): MathJax SVG parsed in-memory to Affinity curves (own dialect parser: glyph/use/defs, rect/line rules, transform stacks; full M..Z + relative/C/S/A cover). No helper file, no second document, no Desktop write, no undo. Offline-validated under bun against live tex2svg() output (10-formula battery: glyph counts match harvest node counts, ink bboxes match in-app harvests to the decimal). Legacy Document.load path kept behind CONFIG.USE_HELPER_DOC_FALLBACK for A/B comparison.

0.8.2 - "Keep as single object" option (new default): all glyph outlines merged into one curve layer via PolyCurve.create()+addCurve (barcode-glyph pattern); tags written directly on the node, no container. Untick for separate editable glyph curves in a named

group. Choice persisted per formula in `com.lesoie.affinitymathjax.singleObject`; pre-0.8.2 formulas re-edit as groups unless ticked. Verify counters/holes (o e p, sqrt, sum, int) side by side at 100%/400% before trusting a renderer upgrade.

0.8.1 - Fixed `PolyCurveNodeDefinition.create` fill/line order (was `(Fill, Line, Fill, Fill)`, 3.3 requires `(Fill, Fill, Line, Fill)` — every curve threw `expected FillDescriptorHandle`); insert failure now reports the real first error; helper write uses `File.create` (deprecated `new File` gone). Probed in-app: barcode order OK, `createDefault`+setters OK. Logged as BUG-016.

0.8.0 - MathJax rename (was "KaTeX" in UI/tags); sibling bundle lookup with Desktop fallback + actionable File System Access errors; single reused helper path with best-effort close + working-doc restore; CONFIG object; examples dropdown; X/Y placement editors; persistent dialog values; friendly error mapping; re-edit context label; multi-select tolerance; `tex2svg.entry.js` build source recovered.

0.7.1 - EM_TO_PT_SCALE = 4; default font size back to 12pt; numbered helper SVG filenames

0.7.0 - Previous version