

Reference · Writing these docs

Adding a widget

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The contract for anything interactive on the wiki: a schema entry, a small custom element built with DOM APIs, a fallback sentence, a mocked e2e test, the budget, and how scripture may appear.

<https://docs.gurbanisoul.com/contributing/adding-a-widget/>

A widget is a vanilla custom element (`<sggs-...>`) inserted from Markdown by a comment, `<!-- sggs:name attr="value" -->`, so the page stays clean on GitHub. Exercise 06 walks the process; this page is the contract.

The contract

Schema	an entry in <code>docs-site/plugins/widgets.schema.json</code> : purpose and attributes; unknown names or attributes fail the build
Element	<code>docs-site/src/widgets/<name>.ts</code> , registered in <code>src/widgets/index.ts</code> ; text is built with <code>el()/textContent</code> , never <code>innerHTML</code> of API data
Fallback	a sentence within three lines after the comment; it is what GitHub readers and readers without the API see
API	<code>same-origin/api/...</code> through <code>api()</code> in <code>src/widgets/api.ts</code> , which times out and returns <code>null</code> ; the widget then shows its fallback text
Scripture	only from the API response, verbatim, with <code>lang="pa"</code> and the Ang — never a string in the source, never the saroop painter
Test	an e2e test with <code>mockApi()</code> fixtures (verbatim API captures) — the suite never reaches production
Accessibility	keyboard-operable, <code>role/aria-live</code> where state changes, axe clean on its page
Budget	the page's JavaScript stays under 60 KB gzipped (<code>npm run check:budget</code>); a build-time widget (like the code excerpt or the repo map) costs nothing

Build-time widgets

Some “widgets” need no JavaScript: a remark plugin replaces the element with HTML at build time (the code excerpt, the repository map, the ADR timeline, the release list). Prefer this when the content is static; the schema entry still declares it, and `remark-widgets` still checks the attributes.

Lighting a poster step

A widget that explains a process can light the step on a poster on the same page:

`lightStep('05-search-waterfall', 'step-07')` in `src/widgets/shared.ts` calls the walkthrough's `goTo`. The search simulator and the verify playground do this.

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