Reference · Knowledge Base tools

The Reader

5 min read · Updated 22 November 2026 · Verified against `c5806fd` on 2026-11-22

The Knowledge Base Reader at /reader: Ang-by-Ang reading, the Go to sheet and page bar, reading options, the timing chip, related verses, deep links and what the browser remembers.

https://docs.gurbanisoul.com/website/knowledge-base/reader/

`/reader` shows Sri Guru Granth Sahib Ji one Ang at a time, verbatim, from Ang 1 to Ang 1430. It is the page every other tool opens a verse in.

What the reader sees

- **The Ang, grouped by composition.** `reader.ts` takes the lines of `/api/ang/{n}` in order and starts a new group at each run of heading lines, so a composition's printed heading sits above its verses. Each verse shows its Gurmukhi, the transliteration and, where the English layer has one, the labelled translation. A refrain line (`is_rahao`) is marked.
- **Context chips** above the text: the Ang's raag, its section and its authors, from the same response.
- **"Continues" pills.** When `continued_from` says the first composition began on an earlier Ang, a pill links back to it. A pill at the foot says the last composition continues on the next Ang; it is derived from the *next* Ang's `continued_from`, never from the last line's `comp_id` (which can belong to a heading that opens the next composition). The slot has a fixed height, so the page does not shift when it fills in.
- **A raag banner** while the reader is inside a raag opened from the Index or the Raag Clock (`?raag=`): the raag's name, its Ang span and its counts from `/api/meta`. It goes away once the reader pages out of that raag.
- **The timing chip**, beside the raag chip: when the raag has an attributed timing claim, a small link to the Raag Clock gives the primary watch (or the season) and notes a disputed variant. It is metadata about the raag, kept visually apart from the scripture and never inline with a verse; it is loaded after the Ang and a failure simply leaves it out. See **the Raag Clock**.

Moving through the Granth

Control	What it does
‹ and › in the page bar, the arrow keys, the buttons at the foot of the Ang	turn one Ang back or on

Control	What it does
a quick sideways swipe on the page (one finger, not from the screen's edge, not while zoomed or with text selected)	turn the Ang (`readerchrome.ts`)
the title, "Go to", or the progress bar	open the Go to sheet: type an Ang, drag the scrubber across the whole Granth, step by one, or pick a raag; an impossible number disables Go and says why
"Hukam" in the page bar	a complete composition at random, in the composition panel
tapping a verse	an inline drawer of related verses (below)

The bars hide while the reader scrolls down with a wheel or a finger and come back on any upward scroll, near the top, on a key press or a tap near the top edge. A landing jump or a late font never hides them: only a scroll the reader made does.

The neighbouring Angs are fetched in the background after each page, so a page turn usually draws from memory. At most six Angs are kept, the farthest from the current one dropped first; a prefetch that fails stays silent, and a newer page cancels an older request so a late answer never paints over it.

Reading options

The reading-options button at the right of the toolbar opens a small panel: text size (one step is 2 px, from 16 to 40), transliteration on or off, the timing chip on or off, **Sehaj** focus mode (the chrome folds away, Escape leaves it), and **Share this Ang**, which shares or copies the `/ang/N` link (it unfurls as that Ang's own card; see **the website**).

Deep links and what is remembered

URL	Lands on
`/reader?ang=N`	Ang N (clamped to 1–1430)
`/reader?ang=N&raag=<name>`	Ang N with that raag's banner
`/reader?ang=N&line=<id>`	Ang N, with that verse scrolled to the centre, highlighted and focused
`/reader?ang=N&comp=<comp_id>`	Ang N at the first verse of that composition
`/reader`	the Ang last turned to in this browser, or Ang 1

The URL follows the page (with `history.replaceState`, so Back leaves the Reader rather than stepping through every Ang). The place is stored (`sggs_last_ang`) **only when the reader turned a page**: opening an Ang from a search result or typing a number is a lookup and must not move a place kept in a long reading.

Related verses

Tapping a verse asks `/api/neighbors?line_id=…&limit=6` and opens a drawer under it with the closest verses, each with a relatedness band (“Strong echo”, “Related”, “Faint echo”) rather than a raw percentage, and a “walk a trail” link to the **Verse trail**. The neighbours and their scores are built offline; see **the insights context**.

Accessibility

- Languages: English only, with Gurmukhi marked `lang="pa"`; see **languages and accessibility**.
- The Go to sheet and the reading options are modal dialogs with `inert` while closed; the overlay stack (`overlay.ts`) traps Tab, closes the top one on Escape, and returns focus to the control that opened it. While anything is open the arrow keys stop turning pages.
- The toggles are `role="switch"` with `aria-checked`, usable with Enter and Space.
- The timing chip is `role="note"` with a spoken label that says it is scholarly metadata, not scripture.
- Tests: `frontend/e2e/reader-chrome.spec.ts`, `reader-nitnem.spec.ts`, `verse-actions.spec.ts`.

Known limits

- The place is per browser (see **what a browser keeps**).
- Related verses are measured on the English translation; a verse with none above the floor shows “No related verses found.”

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