

RikNetra Quick Learning Guide

Welcome to **RikNetra**, an interactive web application for exploring the ancient Rigveda (RV) hymns. This tool allows you to search hymns, visualize connections between them based on semantic similarities, and read their bilingual (Sanskrit and English) texts. RikNetra uses graph visualizations to show hymn relationships, making it easier to discover interconnected themes in the Rigveda.

This guide provides step-by-step instructions on how to use the app. It covers navigation, each main page, and tips for effective use. The app is designed for researchers, students, and enthusiasts of ancient texts. Visual aids (screenshots) are included inline with descriptions and annotations to illustrate key features.

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Getting Started

- **Access the App:** Open the app in a modern web browser (e.g., Chrome, Firefox).
- **System Requirements:** No special software needed—just an internet connection for loading data (though the app uses local JSON databases).
- **Key Concepts:**
- **Hymn (Sukta):** Referred to as "RV Book.Hymn" (e.g., RV 1.1 is Book 1, Hymn 1).
- **Connections:** Hymns are linked based on shared topics or semantics. Databases vary by connection depth (e.g., "4 connections" means up to 4 related hymns per node).
- **Graph Visualization:** Nodes represent hymns; edges show connections. Thicker edges indicate stronger links.
- **Quick Start:** Download the Quick Start Guide PDF from the home page for a visual overview.

Common Navigation Elements

These appear on all pages for consistent user experience.

1. Header Controls:

- **Dark Mode Toggle:** Click the moon icon button to switch between light and dark themes for better readability.
- **Kebab Menu (≡):** Click the bars icon to open the side panel.
- **Home Logo:** Click the RikNetra logo (top-left) to return to the home page.

2. Side Panel:

- Opens via the kebab menu.
- Links:
 - i. **Home:** Go to the main search page.
 - ii. **Hymn Connections:** View the full graph of hymn relationships.
 - iii. **Read Hymns:** Directly access hymn texts.
 - iv. **Development Team:** Learn about the creators of RikNetra
- Close the panel by clicking outside or the kebab menu again.

3. Database Selection:

- Available on most pages as a dropdown (e.g., "Choose Connections: 4 connections").

- Options range from 2 to 10 connections per hymn. Higher numbers show more links but may clutter the graph.
- Changing this reloads data—use lower for simpler views, higher for deeper analysis.

4. Search Input:

- Present on multiple pages. Enter hymn numbers (e.g., "RV 1.1"), keywords (e.g., "Agni"), or queries (e.g., "What is creation").
- Press Enter or click the search button to submit.

Screenshot: Common Navigation Elements (Header and Side Panel)

Content Description: Capture the top portion of any page (e.g., Home Page) showing the header controls. Include the **Kebab Menu (☰)**, **Dark Mode Toggle (moon icon)**, and **Home Logo (RikNetra logo)**. Show the **Side Panel** open (click the kebab menu to reveal it) to display navigation links (Home, Hymn Connections, Read Hymns, Development Team).

Purpose: Illustrate how to access navigation features and toggle the side panel.

Capture Instructions: Use a browser window at 1280x720 resolution for clarity. Crop to focus on the header and side panel (top-left corner). Annotate with arrows or labels pointing to: Kebab Menu ("Click to open"), Dark Mode Toggle ("Switch theme"), Home Logo ("Return to Home"), Side Panel ("Navigation Links").

Placeholder Image: (Insert actual screenshot here, e.g., ``).

Figure Caption: **Figure 1: Header Controls and Side Panel** - Click the kebab menu to access navigation links.

Home Page

The home page is the main entry point for searching and discovering hymns.

Key Features:

- **Welcome Section:** Introduces the app with a logo and brief description.
- **Search Section:** Central search bar with examples.
- **Results Layout:** Divided into Top Results (left), Related Hymns Graph (center), and Summary (right).
- **Quick Guide Link:** Download a PDF guide.

Step-by-Step Usage:

1. Perform a Search:

- Type in the search box (e.g., "RV 10.129" for an exact hymn, "Agni" for keyword matches, or "What is the prominence of Water" for semantic queries).
- Use the tags below for quick examples (click a tag like "RV 1.1" or "What is creation" to auto-fill the search).
- Select a database (e.g., "with 4 neighbors") to control connection depth.
- Click the search icon or press Enter.
- The welcome section hides, and results appear.

Screenshot: Home Page - Search Section

- **Content Description:** Capture the **Search Section** with the search bar, database dropdown (e.g., "with 4 neighbors"), and search tags (e.g., "RV 1.1", "Agni", "What is creation"). Include the **Quick Guide Link** below the search section.
- **Purpose:** Show users where to input searches and how to use example tags.
- **Capture Instructions:** Use a full-width browser (1280px or higher) to capture the entire search area. Crop to exclude unnecessary footer or header parts. Annotate: Search Box ("Enter hymn or query"), Database Dropdown ("Select connection depth"), Search Tags ("Click for quick searches"), Quick Guide Link ("Download PDF").
- **Placeholder Image:** (Insert actual screenshot here, e.g., ``).

Figure Caption:

Figure 2: Home Page Search Section - Enter a hymn number, keyword, or query in the search box. Use the database dropdown to select connection depth and click tags for quick searches.

2. View Top Results (Left Panel):

- Shows 3-5 matching hymns as cards.
- Each card includes: Hymn name, preview text, and buttons.
- **Actions:**
 - i. Click "Hymns Net." to highlight connections in the graph.
 - ii. Click "Read Full" to open the hymn in the Read Hymns page.

3. Explore Related Hymns Graph (Center Panel):

- A D3.js graph shows hymns as nodes (circles) and connections as lines.
- Colors: Selected (red), Direct (orange), Secondary (blue), Tertiary (green).
- **Interactions:**
 - i. Hover over a node for a tooltip with the hymn name.
 - ii. Click a node to select it, zoom in, and highlight connections. It also performs an exact search for that hymn.

- iii. Drag nodes to reposition.
 - iv. Zoom/pan the graph using mouse wheel or touch gestures.
 - v. Click edges to highlight connected nodes.
- **Recently Clicked Hymns:** Lists the last 5 clicked hymns—click one to re-search it.

4. Read Summary (Right Panel):

- Displays a generated summary (RAG-based) of search results.
- For exact matches, this panel may hide.

Screenshot: Home Page - Results Layout

- **Content Description:** Capture the full results layout after a search (e.g., for "RV 10.129"). Include **Top Results (Left)** (result cards with buttons), **Related Hymns Graph (Center)** (graph with selected node highlighted), **Summary (Right)** (RAG summary), and **Recently Clicked Hymns** (list below the graph).
 - **Purpose:** Demonstrate the three-panel results view and graph interactions.
 - **Capture Instructions:** Perform a search (e.g., "RV 1.1") to populate results. Use a wide resolution (1920x1080) to capture all panels. Crop to focus on the results-container div. Annotate: Top Results ("View search results"), Graph ("Explore hymn connections"), Summary ("Read summary of results"), Recent Hymns ("Click to revisit hymns").
 - **Placeholder Image:** (Insert actual screenshot here, e.g., ``).
 - **Figure Caption:** **Figure 3: Home Page Results Layout** - After a search, view top results, graph connections, and a summary.
1. **Reset Search:**
 - Clear the search box and press Enter to return to the welcome view.

Hymn Connections Page

This page (suktasconnection.html) focuses on visualizing the full network of hymn connections in a detailed graph.

Key Features:

- **Graph Container:** Large interactive graph.
- **Controls Bar:** Database selection, search, zoom buttons, toggles.
- **Tooltip/Popup:** Details on hover/click.
- **Color Legend:** Toggle to color nodes by topics (e.g., Creation, Marut).

Step-by-Step Usage:

1. Load the Graph:

- Select a database (e.g., "4 connections") from the dropdown—it loads automatically.
- The graph shows all hymns as nodes, connected by edges (thinner edges = weaker links).

Screenshot: Hymn Connections Page - Graph with Controls

- **Content Description:** Capture the full **Hymn Connections** page with the graph, controls bar, and a popup open. Show **Controls Bar** (database dropdown, search input, zoom buttons, toggles), **Graph** (nodes and edges with one selected), **Popup** (related hymns and "Read this Hymn" button), and **Color Legend** (visible with topics toggle on).
- **Purpose:** Show the interactive graph and how controls affect it.
- **Capture Instructions:** Click a node (e.g., RV 1.1) to open the popup and highlight connections. Turn on the Topics Label toggle to show the legend. Use 1280x720 resolution or higher. Annotate: Controls Bar ("Adjust graph settings"), Graph Node ("Click to select hymn"), Popup ("View related hymns"), Color Legend ("Click to highlight topics").
- **Placeholder Image:** (Insert actual screenshot here, e.g., ``).
- **Figure Caption:** **Figure 4: Hymn Connections Page Graph** - Use controls to search, zoom, and toggle features; click nodes for details.

2. Search for a Hymn:

- Enter a hymn (e.g., "rv1.1") in the search input.
- The graph zooms to the node, highlights it (red stroke), and shows connected nodes.

3. Interact with the Graph:

- **Hover:** Tooltip shows hymn name.
- **Click Node:** Opens a popup with the hymn and its connections. Zooms in and highlights (red edges/nodes).
- **Click Edge:** Highlights connected nodes (red edge).
- **Drag Node:** Reposition for better view.
- **Zoom Controls:** Use + (zoom in), - (zoom out), or reset button.
- **Toggles:**
 - a) "Hymn Numbers": Show /hide node labels.
 - b) "Hide Unselected": Isolate the selected node and its connections.
 - c) "Topics Label On/Off": Color nodes by topics and show legend.

4. Use the Popup:

- Shows selected hymn and related ones (sorted by connection strength).
- Click "Read this Hymn" to open in the Read Hymns page.
- Close with the × button.

5. Legend Interactivity:

- When topics toggle is on, click a legend item (e.g., "Creation") to highlight matching nodes and zoom to their center.

6. Reset:

- Click the reset button to reload the full graph.

Read Hymns Page

This page displays the full text of a specific hymn in bilingual format.

Key Features:

- **Chapter Name:** Displays the selected hymn (e.g., "RV 10.129").
- **Bilingual Text:** Sanskrit (left) and English (right) columns.
- **Related Hymns:** Dropdown list of connected hymns.
- **Font Controls:** Adjust text size.

Step-by-Step Usage:

1. Access a Hymn:

- From other pages: Click "Read Full" or "Read this Hymn".
- Directly: Search for a hymn (e.g., "rv 1.1") and click Search.

2. View Texts:

- Sanskrit on left, English on right (line breaks preserved).
- If no text available, a message shows.

Screenshot: Read Hymns Page - Bilingual Text

- **Content Description:** Capture the **Chapter Container** showing **Chapter Name** (e.g., "RV 10.129"), **Bilingual Text** (Sanskrit left, English right), **Related Hymns** (expanded dropdown for one related hymn), and **Font Controls** (buttons: +, -, Reset).
- **Purpose:** Illustrate how to read hymn texts and explore related hymns.
- **Capture Instructions:** Navigate to a hymn (e.g., via "Read Full" from Home Page). Expand a related hymn's dropdown. Use 1280x720 resolution. Annotate: Chapter Name ("Selected hymn"), Bilingual Text ("Sanskrit and English texts"), Related Hymns ("Click to view related texts"), Font Controls ("Adjust text size").
- **Placeholder Image:** (Insert actual screenshot here, e.g., ``).
- **Figure Caption:** **Figure 5: Read Hymns Page Bilingual View** - Read full texts and expand related hymns for previews.

3. Explore Related Hymns:

- Scroll to "Related Hymns" section (appears if connections exist).
- Click a hymn name to toggle its dropdown.
- View bilingual preview in the dropdown.

4. Adjust Font:

- Use + (increase), - (decrease), or Reset buttons.
- Changes apply to all text and persist via local storage.

5. Change Database or Search:

- Select a new database—reloads if the hymn exists there.
- Search for another hymn to switch.

6. Handle Errors:

- If hymn not found: Alert shows; search again.

Quick Tips and Troubleshooting

- **Performance:** Higher connection databases (e.g., 10) may slow the graph—use lower for quick views.
- **Exact vs. Semantic Search:** Use "RV X.Y" for precise results; queries like "role of Heaven & Earth" for broader insights.
- **Mobile Use:** The app is responsive, but graphs work best on desktop.
- **No Results?:** Check spelling (e.g., "Visnu" not "Vishnu"). Try synonyms or broader terms.

- **Errors:** Refresh the page or check console (F12) for issues. Contact developers via the side panel.
- **Credits:** Texts from Rigveda sources; developed by the team listed in "Development Team".
- **Feedback:** Email ashashah228@gmail.com (from footer comments).
- **Screenshot Tools:** Use Snagit for annotations, or browser tools (F12) for captures. Save as PNG/JPEG, under 500KB.

Happy exploring the Rigveda with RikNetra! © 2025 RikNetra.