accessibility to-dos for screen reader support

- ~~Site wide landmarks and navigation~~

    - ~~Set the language on the document element~~
        - ~~Change `<head lang="en">` to `<html lang="en">` in all pages:~~
          ~~`dist/about.html` , `dist/guide.html` , `dist/map.html` ,~~
          ~~`dist/people.html` , `dist/table.html` , and `docs/index.html` .~~
    - ~~Add skip to content~~
        - ~~Add a visually persistent "Skip to main content" link as the first~~
          ~~focusable element in `<body>` , linking to `#main` .~~
        - ~~Ensure the target exists on every page (see next item).~~
    - ~~Add main landmarks~~
        - ~~Wrap the primary page content in `<main id="main" role="main">…`~~
          ~~`</main>` :~~
            - ~~`dist/map.html` : wrap `.content container` .~~
            - ~~`dist/table.html` : wrap the `<table id="principia table">` and~~
              ~~related top controls.~~
            - ~~`dist/about.html` , `dist/people.html` , `dist/guide.html` : wrap~~
              ~~the Bootstrap container with the page content.~~

- ~~Headings and link text~~

    - ~~Ensure a single H1 per page~~
        - ~~Add a visually hidden H1 (e.g., "Principia Mathematica Map", "~~
          ~~Table", " About", etc.) before the visible H3 in each page to~~
          ~~maintain logical hierarchy.~~
    - ~~Replace non descriptive link text~~
        - ~~Update ambiguous "[here]" and similar links in `dist/about.html`~~
          ~~and `dist/guide.html` with descriptive anchors (e.g., "contact~~
          ~~form", "PM MATS GitHub repository", "second edition global map").~~

- ~~Images and media~~

    - ~~People page headshots~~
        - ~~In `dist/people.html` , add `alt` text to profile images (e.g.,~~
          ~~`alt="Portrait of Landon D. C. Elkind"`). If any are purely~~
          ~~decorative, use `alt=""` .~~
    - ~~Confirm alt text quality elsewhere~~
        - ~~Existing images in `dist/guide.html` already have alt and~~
          ~~`figcaption` ; do a quick pass to ensure alt text describes the~~
          ~~image's function/purpose succinctly.~~

- Interactive map and minimaps (SVG/D3)

    - ~~Make nodes keyboard accessible~~
        - ~~In `src/Map.js` and `src/Minimap.js` , when creating circles:~~
            - ~~Add `tabindex="0"` and `role="link"` .~~
            - ~~Add `aria label` like: "Starred number 2.2, type Thm. Opens~~
              ~~mini map in new tab."~~
                - ~~Use the node's `properties.number` and~~
                  ~~`properties.type` .~~

- ~~Add keyboard activation~~
    - ~~Add a keydown handler on the circles to trigger the same behavior as click on Enter and Space.~~
- ~~Hide visual only tooltips from screen readers~~
    - ~~When creating `.tooltip`, `.minimp tooltip`, `.svg tooltip` in both `Map.js` and `Minimap.js`, set `aria hidden="true"`.~~
- Add accessible names/descriptions for SVGs
    - For `#pm-map`, `#main-minimap`, and the generated mini SVGs:
        - Programmatically inject `<title>` and `<desc>` and set `aria-labelledby` on the `<svg>` element with a unique ID (do not change layout).
        - For `#pm-map`, include a high-level description: "Interactive map of Principia starred numbers; use Left/Right to pan, Tab to move between nodes."
- ~~Keyboard panning for the map canvas~~
    - ~~`dist/map.html`: set `.content container` to `tabindex="0"` and `role="region" aria label="Map canvas"`.~~
    - ~~In `src/index.js`, add key handlers on `.content container` to scroll left/right by a fixed amount using ArrowLeft/ArrowRight.~~
    - Add a visually hidden instructions block at the start of `.content-container` informing SR users how to navigate.
- ~~Focus management after search~~
    - ~~In `src/index.js`, after jumping to a node from the navbar search:~~
        - ~~Move focus to that node's circle (`focus()` on the matching element).~~
        - ~~Announce "Moved to starred number X.Y" via an `aria-live="polite"` region.~~

- ~~Table accessibility (DataTables)~~

    - ~~Add a caption and instructions~~
        - ~~In `dist/table.html`, add a `<caption>` describing the dataset and controls, e.g., "Searchable and exportable table of starred numbers in Principia Mathematica."~~
        - Optionally add a visually hidden paragraph with brief instructions and reference it from the table via `aria-describedby`.
    - ~~Label column filter inputs~~
        - ~~In `src/datatable.js` `initComplete`, after creating each header input, set `input.setAttribute('aria-label', title)` and `input.setAttribute('title', title)` so each input has a programmatic name.~~
    - ~~Announce results count~~
        - ~~In `dist/table.html` or via script, set `aria-live="polite"` on the element with class `.dataTables_info` so screen readers announce filtering/paging changes.~~
    - ~~Export buttons~~
        - ~~Ensure "Export CSV" and "Export JSON" have clear accessible names (they already do). Add `aria-label` clarifying "Exports current filtered results as CSV/JSON." in `src/datatable.js`.~~
    - ~~Preserve header semantics~~

- ~~Keep `<th scope="col">` intact (already present in HTML). The inputs live inside the `th`; adding ARIA labels on inputs ensures no SR confusion~~.

- External links and new tabs

  - For external links (including the dynamic "original text" link in `src/index.js`):
    - Add `rel="noopener noreferrer"` .
    - Add `aria-label` clarifying "opens in new tab" where helpful.

- ~~Focus visibility (non-visual impact)~~

  - ~~Add a subtle focus style for interactive circles~~
    - ~~In `dist/style.css` , add a rule to give focused circles a visible ring (stroke or outline) that does not change layout. Example: `circle:focus { outline: none; stroke: #000; stroke-width: 2px; }`~~

- ~~Minimal, safe HTML adjustments per page~~

  - ~~`dist/map.html`~~
    - ~~Add skip link; wrap `.content container` in `<main>`; mark `.content container` as focusable region with ARIA; add hidden H1 for the page.~~
  - ~~`dist/table.html`~~
    - ~~Add skip link; wrap in `<main>`; add `<caption>`; ensure `aria-live` on `.dataTables_info`; hidden H1.~~
  - ~~`dist/about.html`, `dist/guide.html`, `dist/people.html`~~
    - ~~Add skip link; wrap Bootstrap content in `<main>`; replace "[here]" links; add hidden H1; add alt text for people images.~~

- Screen reader QA (macOS and Windows)

  - VoiceOver (macOS) smoke test
    - Navigate from the address bar, confirm the skip link is first.
    - Verify logical page title/H1, then nav, then main.
    - Map page: Arrow-left/right pans the map; Tab moves between nodes; Enter opens minimap; SR reads node label correctly.
    - Table page: VO+U rotor lists the table; caption is read; filter inputs announce labels; result count updates are announced on filter.
    - About/Guide/People: Headings list reads correctly; image ~~alt~~s are read; links are descriptive.
  - NVDA (Windows) smoke test
    - Repeat the above flows. Confirm similar behavior and that live region announcements are heard.
  - Fix any regressions or unexpected verbosity.