

art10m's BookStack Hacks

<head>

```
<!-- =====  
BOOKSTACK CUSTOM HEAD CONFIGURATION  
  
This file contains custom styles, scripts, and integrations for BookStack:  
- Typography and layout adjustments (zoom, colors, spacing)  
- CodeMirror 6 line wrapping for code blocks  
- Markdown-it configuration (soft line breaks)  
- MathJax integration for LaTeX math rendering  
- Mermaid diagram rendering with theme synchronization  
- Light/Dark mode toggle button (works for both guests and logged-in users)  
===== -->  
  
<!-- =====  
CONSOLIDATED STYLES  
===== -->  
<style>  
  /* -----  
  DETAILS ELEMENT SPACING  
  Ensures proper bottom margin for the last child inside <details> elements  
  ----- */  
  .page-content details > *:last-child {  
    margin-bottom: .2em;  
  }  
  
  /* -----  
  BLOCKQUOTE ADJUSTMENTS  
  - Adds consistent vertical spacing for first/last children  
  - Disables overflow scrolling to prevent unwanted scrollbars  
  ----- */  
  .content-wrap blockquote > :last-child {
```

```
margin-bottom: .3em;
}

.content-wrap blockquote > :first-child {
margin-top: .3em;
}

.content-wrap blockquote {
overflow: visible;
overflow-x: visible;
overflow-y: visible;
}

/* -----
PAGE CONTENT ZOOM AND TYPOGRAPHY
- Applies 1.15x zoom to page content for better readability
- Compensates heading size with 0.9x zoom to maintain visual hierarchy
----- */
.page-content {
zoom: 1.15;
}

.page-content h1,
.page-content h2,
.page-content h3,
.page-content h4,
.page-content h5,
.page-content h6 {
zoom: .9;
}

/* -----
COLOR SCHEME: LIGHT MODE
- Dark text on light background for optimal contrast
- Slightly muted headings for visual hierarchy
----- */
html .page-content {
color: hsl(0 0% 10%);
}
```

```
html .page-content h1,
html .page-content h2,
html .page-content h3,
html .page-content h4,
html .page-content h5,
html .page-content h6 {
  color: hsl(0 0% 30%);
}

/* -----
  COLOR SCHEME: DARK MODE
  - Light text on dark background
  - Adjusted heading colors for dark theme
  - Muted gutter colors for CodeMirror editor
  ----- */
html.dark-mode .page-content {
  color: hsl(0 0% 90%);
}

html.dark-mode .page-content h1,
html.dark-mode .page-content h2,
html.dark-mode .page-content h3,
html.dark-mode .page-content h4,
html.dark-mode .page-content h5,
html.dark-mode .page-content h6 {
  color: hsl(0 0% 70%);
}

html.dark-mode .co .cm-gutters {
  color: hsl(0 0% 33%);
}

/* -----
  CODEMIRROR EDITOR STYLING
  Removes border-radius for a cleaner, squared appearance
  ----- */
.page-content .cm-editor {
  border-radius: 0;
```

```
}

/* -----
  MERMAID DIAGRAM CONTAINER
  - Dashed border for visual identification during development/editing
  - Centered layout with horizontal scroll for large diagrams
  ----- */

.mermaid-container {
  border: 1px dashed #4238ff !important;
}

.mermaid {
  margin: 1em auto;
  overflow-x: auto;
  text-align: center;
}

.mermaid svg {
  max-width: 100%;
  height: auto;
  display: inline-block;
}

/* -----
  THEME TOGGLE BUTTON (FIXED POSITION)
  - Positioned at bottom-left corner for easy access
  - Circular button with hover/active states
  - Semi-transparent by default, full opacity on hover
  ----- */

.theme-toggle-fixed {
  position: fixed;
  bottom: 20px;
  left: 20px;
  z-index: 9999;
  background: var(--color-primary, #206ea7);
  border: none;
  border-radius: 50%;
  width: 44px;
  height: 44px;
}
```

```

    cursor: pointer;
    box-shadow: 0 2px 8px rgba(0, 0, 0, 0.25);
    display: flex;
    align-items: center;
    justify-content: center;
    transition: transform 0.2s ease, box-shadow 0.2s ease, opacity 0.2s ease;
    opacity: 0.7;
}

.theme-toggle-fixed:hover {
    transform: scale(1.1);
    box-shadow: 0 4px 12px rgba(0, 0, 0, 0.35);
    opacity: 1;
}

.theme-toggle-fixed:active {
    transform: scale(0.95);
}

.theme-toggle-fixed svg {
    width: 22px;
    height: 22px;
    fill: #ffffff;
}
</style>

<!-- =====
MATHJAX CONFIGURATION
Enables LaTeX math rendering with $ for inline and $$ for display math
===== -->

<script>
window.MathJax = {
  tex: {
    inlineMath: [['$', '$']],
    displayMath: [['$$', '$$']]
  }
};
</script>

<script id="MathJax-script" async src="https://cdn.jsdelivr.net/npm/mathjax@4/tex-mml-

```

```
html.js"></script>
```

```
<!-- =====  
BOOKSTACK EVENT LISTENERS AND THEME TOGGLE  
- CodeMirror 6 line wrapping configuration  
- Markdown-it soft line break configuration  
- Light/Dark mode toggle for guests and logged-in users  
===== -->
```

```
<script>
```

```
(function () {  
  'use strict';
```

```
/* =====  
  SHARED THEME STORAGE KEY  
  Used by both the toggle button and Mermaid for consistent theme state  
  ===== */
```

```
var THEME_STORAGE_KEY = 'bookstack-guest-dark-mode';
```

```
// Expose storage key globally for the Mermaid module to access  
window.BOOKSTACK_THEME_STORAGE_KEY = THEME_STORAGE_KEY;
```

```
/* =====  
  CODEMIRROR 6: LINE WRAPPING FOR CODE BLOCKS  
  Listens for the CM6 pre-init event and enables line wrapping  
  for content code blocks to prevent horizontal scrolling  
  ===== */
```

```
window.addEventListener('library-cm6::pre-init', function (event) {  
  var detail = event.detail;  
  var config = detail.editorViewConfig;  
  var EditorView = detail.libEditorView;
```

```
  // Only apply line wrapping to content code blocks (not the main editor)  
  if (detail.usage === 'content-code-block') {  
    config.extensions.push(EditorView.lineWrapping);  
  }  
});
```

```
/* =====  
  MARKDOWN-IT: SOFT LINE BREAKS
```

```

    Configures the Markdown editor to convert single newlines to <br> tags
    (GFM-style line breaks)
    ===== */
window.addEventListener('editor-markdown::setup', function (event) {
    event.detail.markdownIt.set({breaks: true});
});

/* =====
    LIGHT/DARK MODE TOGGLE BUTTON

    Features:
    - Works for both guests (localStorage) and logged-in users (server-side)
    - Applies saved preference immediately to prevent flash of wrong theme
    - Detects system color scheme preference as fallback for guests
    ===== */

/**
 * Checks if the guest has dark mode enabled based on localStorage
 * Falls back to system preference if no stored value exists
 * @returns {boolean} True if dark mode should be enabled
 */
function isGuestDarkModeEnabled() {
    var stored = localStorage.getItem(THEME_STORAGE_KEY);
    if (stored !== null) {
        return stored === 'true';
    }
    // Fallback: Check system color scheme preference
    return window.matchMedia && window.matchMedia('(prefers-color-scheme: dark)').matches;
}

/**
 * Determines if the current user is logged in
 * Checks for CSRF token AND user menu elements (both required)
 * @returns {boolean} True if user is logged in
 */
function isUserLoggedIn() {
    var csrfMeta = document.querySelector('meta[name="csrf-token"]');
    var hasToken = csrfMeta && csrfMeta.getAttribute('content');
    var hasUserMenu = document.querySelector('.dropdown-container [data-
```

```

shortcut="favourites_view"]')
    || document.querySelector('[href*="/logout"]');
return !(hasToken && hasUserMenu);
}

/**
 * Applies the theme by toggling the 'dark-mode' class on <html>
 * @param {boolean} isDark - Whether to enable dark mode
 */
function applyTheme(isDark) {
    if (isDark) {
        document.documentElement.classList.add('dark-mode');
    } else {
        document.documentElement.classList.remove('dark-mode');
    }
}

// -----
// IMMEDIATE THEME APPLICATION (before DOMContentLoaded)
// Prevents flash of wrong theme by applying saved preference early
// -----
var currentlyDark = document.documentElement.classList.contains('dark-mode');
var guestPref = localStorage.getItem(THEME_STORAGE_KEY);

if (guestPref !== null) {
    if (!currentlyDark && guestPref === 'true') {
        document.documentElement.classList.add('dark-mode');
    } else if (guestPref === 'false' && currentlyDark) {
        document.documentElement.classList.remove('dark-mode');
    }
}

// -----
// CREATE TOGGLE BUTTON (after DOM is ready)
// -----
document.addEventListener('DOMContentLoaded', function () {
    var isDarkMode = document.documentElement.classList.contains('dark-mode');
    var loggedIn = isUserLoggedIn();

```

```

// SVG icons for sun (light mode) and moon (dark mode)
var sunIcon = '<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"><path d="M20
15.31 23.31 12 20 8.69V4h-4.69L12 .69 8.69 4H4v4.69L.69 12 4 15.31V20h4.69L12 23.31 15.31
20H20zM12 18c-3.31 0-6-2.69-6-6s2.69-6 6-6 6 2.69 6 6-2.69 6-6 6"/></svg>';
var moonIcon = '<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"><path d="M12
3a9 9 0 1 0 9 9c0-.46-.04-.92-.1-1.36a5.389 5.389 0 0 1-4.4 2.26 5.403 5.403 0 0 1-3.14-9.8c-
.44-.06-.9-.1-1.36-.1z"/></svg>';

// Create the toggle button element
var button = document.createElement('button');
button.className = 'theme-toggle-fixed';
button.type = 'button';
button.title = isDarkMode ? 'Activate Light Mode' : 'Activate Dark Mode';
button.innerHTML = isDarkMode ? sunIcon : moonIcon;

// Handle click: server-side for logged-in users, client-side for guests
button.addEventListener('click', function () {
  if (loggedIn) {
    // Logged-in users: Submit form to BookStack's preference endpoint
    var csrfToken = '';
    var csrfMeta = document.querySelector('meta[name="csrf-token"]');
    if (csrfMeta) {
      csrfToken = csrfMeta.getAttribute('content') || '';
    }

    var form = document.createElement('form');
    form.method = 'POST';
    form.action = '/preferences/toggle-dark-mode';
    form.innerHTML =
      '<input type="hidden" name="_token" value="' + csrfToken + '">' +
      '<input type="hidden" name="_method" value="PATCH">' +
      '<input type="hidden" name="_return" value="' + window.location.href + '">';
    document.body.appendChild(form);
    form.submit();
  } else {
    // Guests: Toggle theme client-side and save to localStorage
    var nowDark = document.documentElement.classList.contains('dark-mode');
    var newMode = !nowDark;

```

```

    applyTheme(newMode);
    localStorage.setItem(THEME_STORAGE_KEY, newMode.toString());

    // Update button appearance
    button.innerHTML = newMode ? sunIcon : moonIcon;
    button.title = newMode ? 'Activate Light Mode' : 'Activate Dark Mode';
  }
});

    document.body.appendChild(button);
  });
})();
</script>

<!-- =====
MERMAID DIAGRAM RENDERING (ES MODULE)

Features:
- Automatic detection of mermaid code blocks (multiple selector formats)
- Theme synchronization with BookStack's dark/light mode
- Uses shared localStorage key with theme toggle button
- Theme changes apply on next page load (no live re-rendering)
===== -->
<script type="module">
  import mermaid from "https://cdn.jsdelivr.net/npm/mermaid@11/dist/mermaid.esm.min.mjs";

  // Use the shared storage key from the main script
  const STORAGE_KEY = window.BOOKSTACK_THEME_STORAGE_KEY || "bookstack-guest-dark-mode";

  /* =====
  THEME DETECTION UTILITIES
  ===== */

  /**
   * Checks if BookStack is currently in dark mode
   * @returns {boolean} True if 'dark-mode' class is present on <html>
   */
  function isBookStackDarkMode() {
    return document.documentElement.classList.contains("dark-mode");
  }

```

```

}

/**
 * Retrieves the stored theme preference from localStorage
 * @returns {boolean|null} true = dark, false = light, null = not set
 */
function getStoredThemeIsDark() {
  const stored = localStorage.getItem(STORAGE_KEY);
  if (stored === null) return null;
  return stored === "true";
}

/**
 * Saves the theme preference to localStorage
 * @param {boolean} isDark - Whether dark mode is enabled
 */
function storeThemeIsDark(isDark) {
  localStorage.setItem(STORAGE_KEY, isDark ? "true" : "false");
}

/**
 * Determines the Mermaid theme based on current BookStack mode
 * Uses actual DOM state (dark-mode class) for accurate theme selection
 * @returns {string} Mermaid theme name ("dark" or "default")
 */
function getMermaidTheme() {
  return isBookStackDarkMode() ? "dark" : "default";
}

/* =====
MERMAID INITIALIZATION
Disabled auto-start to allow manual control over rendering
===== */
mermaid.initialize({
  startOnLoad: false,
  securityLevel: "strict",
  theme: getMermaidTheme()
});

```

```

/* =====
DOM UTILITIES FOR MERMAID CODE BLOCKS
===== */

/**
 * Finds all elements containing Mermaid diagram source code
 * Supports multiple code block formats used by different editors
 * @returns {HTMLElement[]} Array of source elements
 */
function findMermaidSources() {
  const selectors = [
    "pre.mermaid",
    "pre > code.language-mermaid",
    "pre > code.lang-mermaid",
    "code.language-mermaid"
  ];

  const nodes = Array.from(document.querySelectorAll(selectors.join(", ")));

  // Normalize to parent <pre> element when applicable
  return nodes.map(n =>
    (n.tagName.toLowerCase() === "code" && n.parentElement?.tagName.toLowerCase() === "pre")
      ? n.parentElement
      : n
    );
}

/**
 * Extracts the text content (Mermaid code) from a source element
 * @param {HTMLElement} node - The source element
 * @returns {string} The trimmed Mermaid code
 */
function extractCodeFromNode(node) {
  const codeEl = node.tagName.toLowerCase() === "pre"
    ? (node.querySelector("code") || node)
    : node;

  return (codeEl.textContent || "").trim();
}

```

```

/**
 * Replaces the original code block with a Mermaid container div
 * Initially hidden to prevent flash of unstyled content
 * @param {HTMLElement} originalNode - The original code block element
 * @param {string} code - The Mermaid diagram code
 * @returns {HTMLElement} The new container element
 */
function replaceWithContainer(originalNode, code) {
  const container = document.createElement("div");
  container.className = "mermaid";
  container.textContent = code;
  container.style.visibility = "hidden";

  originalNode.replaceWith(container);
  return container;
}

/* =====
PAGE READY DETECTION
===== */

/**
 * Waits for the page to be fully loaded and rendered
 * Uses multiple techniques to ensure DOM is stable:
 * 1. Wait for 'load' event (or skip if already complete)
 * 2. Wait for two animation frames (ensures layout is calculated)
 * 3. Additional timeout for any async CSS/font loading
 */
async function waitForPageReady() {
  // Wait for window load event
  await new Promise(resolve => {
    if (document.readyState === "complete") return resolve();
    window.addEventListener("load", () => resolve(), {once: true});
  });

  // Wait for layout stabilization (two animation frames)
  await new Promise(r => requestAnimationFrame(() => requestAnimationFrame(r)));
}

```

```

// Additional buffer for async resources
await new Promise(r => setTimeout(r, 150));
}

/* =====
   MAIN RENDERING FUNCTION
   ===== */

/**
 * Main entry point: finds, transforms, and renders all Mermaid diagrams
 * Theme is determined once at render time and applied consistently
 * Theme changes will take effect on next page load
 */
async function renderAllMermaid() {
  const sources = findMermaidSources();

  // Even without diagrams, ensure theme state is stored for consistency
  if (!sources.length) {
    await waitForPageReady();
    storeThemeIsDark(isBookStackDarkMode());
    return;
  }

  // Transform code blocks into Mermaid containers
  const containers = [];
  for (const src of sources) {
    const code = extractCodeFromNode(src);
    if (!code) continue;

    const container = replaceWithContainer(src, code);
    // Store original code for potential future use
    container.setAttribute("data-original-code", code);
    containers.push(container);
  }

  await waitForPageReady();

  // Render all diagrams with the current theme
  for (const el of containers) {

```

```

    try {
        await mermaid.run({nodes: [el]});
        el.style.visibility = "visible";
    } catch (e) {
        el.style.visibility = "visible";
        console.error("Mermaid render failed for element:", el, e);
    }
}

// Store current theme state for next page load
storeThemeIsDark(isBookStackDarkMode());
}

// Start rendering process
renderAllMermaid();
</script>

```

functions.php

```
/opt/bookstack/bookstack/www/themes/custom/functions.php
```

```

<?php

// Import the ThemeEvents class which contains event constants for the theming system
use BookStack\Theming\ThemeEvents;
// Import the Theme facade to register event listeners
use BookStack\Facades\Theme;

/**
 * Register a listener for the CommonMark environment configuration event.
 * This hook is triggered when BookStack sets up the Markdown parser.
 *
 * CommonMark is the Markdown parsing library used by BookStack.
 */
Theme::listen(ThemeEvents::COMMONMARK_ENVIRONMENT_CONFIGURE, function ($environment) {

    // Merge custom configuration into the CommonMark environment
    $environment->mergeConfig([

```

```
'renderer' => [  
  // Convert soft line breaks (single newlines) into <br> HTML tags  
  // By default, CommonMark ignores single newlines in Markdown.  
  // This setting makes single line breaks visible in the rendered output,  
  // which is useful for preserving line formatting in user content.  
  'soft_break' => "<br>",  
]  
]);  
  
// Return the modified environment so other listeners can further customize it  
return $environment;  
});
```

oEmbeds in `<head>`

```
<style>  
.auto-embed {  
  position: relative;  
  width: 100%;  
  max-width: 100%;  
  margin: 1rem 0;  
  overflow: hidden;  
  background: #000;  
}  
  
.auto-embed.video {  
  aspect-ratio: 16/9;  
}  
  
.auto-embed.audio {  
  aspect-ratio: 16/5;  
}  
  
.auto-embed.code {  
  aspect-ratio: 4/3;  
  min-height: 400px;  
}
```

```
.auto-embed.square {
  aspect-ratio: 1/1;
}

.auto-embed iframe {
  position: absolute;
  inset: 0;
  width: 100%;
  height: 100%;
  border: 0;
}
</style>

<script>
document.addEventListener('DOMContentLoaded', () => {
  const providers = [
    // YouTube
    {
      regex: /youtu(?:be\.com\/watch?v=|\.be\/)([w-]+)/i,
      embed: id => `https://www.youtube-nocookie.com/embed/${id}`, type: 'video'
    },
    {
      regex: /vimeo\.com\/(\d+)/i,
      embed: id => `https://player.vimeo.com/video/${id}`, type: 'video'
    },
    {
      regex: /dailymotion\.com\/video\/([w-]+)/i,
      embed: id => `https://www.dailymotion.com/embed/video/${id}`, type: 'video'
    },
    {
      regex: /twitch\.tv\/videos\/(\d+)/i,
      embed: id => `https://player.twitch.tv/?video=${id}&parent=${location.hostname}`,
      type: 'video'
    },
    {
      regex: /twitch\.tv\/([w-]+)$/i,
      embed: id => `https://player.twitch.tv/?channel=${id}&parent=${location.hostname}`,
      type: 'video'
    }
  ]
}
```

```

},
{
  regex: /loom\.com\/share\/([\w-]+)/i,
  embed: id => `https://www.loom.com/embed/${id}`, type: 'video'
},
{
  regex: /streamable\.com\/([\w-]+)/i,
  embed: id => `https://streamable.com/e/${id}`, type: 'video'
},

// 🎧 Audio
{
  regex: /open\.spotify\.com\/(track|album|playlist|episode)\/([\w-]+)/i,
  embed: (t, id) => `https://open.spotify.com/embed/${t}/${id}`, type: 'audio'
},
{
  regex: /soundcloud\.com\/([\w-]+\.[\w-]+)/i,
  embed: path =>
`https://w.soundcloud.com/player/?url=https://soundcloud.com/${path}&color=%23ff5500&auto_play
=false&hide_related=true&show_comments=false&show_user=true&show_reposts=false&show_teaser=fal
se`,
  type: 'audio'
},

// 📄 Code - CodePen

// 📄 CodePen v2.0 Editor-Format (DIREKTES IFRAME!)
{
  regex: /codepen\.io\/editor\/([\w-]+)\/pen\/([\w-]+)/i,
  embed: (user, penId) => `https://codepen.io/editor/${user}/embed/${penId}?default-
tab=html%2Cresult&theme-id=dark&editable=true`,
  type: 'code'
},

// 📄 Klassisches CodePen-Format
{
  regex: /codepen\.io\/([\w-]+)\/(?:pen|full|details)\/([\w-]+)/i,
  embed: (user, penId) => `https://codepen.io/${user}/embed/${penId}?default-
tab=html%2Cresult&theme-id=dark&editable=true`,

```

```

    type: 'code'
  },

  // Andere Code-Plattformen
  {
    regex: /codesandbox\.io\s\/([\w-]+)/i,
    embed: id => `https://codesandbox.io/embed/${id}`, type: 'code'
  },
  {
    regex: /stackblitz\.com\/edit\/([\w-]+)/i,
    embed: id => `https://stackblitz.com/edit/${id}?embed=1`, type: 'code'
  },
  {
    regex: /jsfiddle\.net\/([\w-]+\.[\w-]+)/i,
    embed: path => `https://jsfiddle.net/${path}/embedded/result,js,html,css/`, type:
'code'
  },
  {
    regex: /gist\.github\.com\/([\w-]+)\.([\w-]+)/i,
    embed: (u, id) => `data:text/html,<script
src="https://gist.github.com/${u}/${id}.js"></script>`,
    type: 'code'
  },

  // 🗺️ Maps & Design
  {
    regex: /figma\.com\/(file|design)\.([\w-]+)/i,
    embed: (t, id) =>
`https://www.figma.com/embed?embed_host=bookstack&url=https://www.figma.com/${t}/${id}`,
    type: 'code'
  },
  {
    regex: /google\.com\/maps\/embed\?pb=([^\s]+)/i,
    embed: pb => `https://www.google.com/maps/embed?pb=${pb}`, type: 'video'
  },
];

document.querySelectorAll('p').forEach(p => {
  const text = p.textContent.trim();

```

```
if (!/^https?:\\\/\\\/S+$/i.test(text)) return;

for (const {regex, embed, type} of providers) {
  const match = text.match(regex);
  if (!match) continue;

  const src = embed(...match.slice(1));
  p.outerHTML = `

## And this must be added to docker-compose.yml



Under environment:



```
- ALLOWED_IFRAME_SOURCES=https://*.codepen.io https://codepen.io https://*.jsfiddle.net
https://jsfiddle.net https://*.codesandbox.io https://codesandbox.io https://open.spotify.com
https://gist.github.com https://*.youtube.com https://youtube.com https://www.youtube-
nocookie.com https://*.vimeo.com https://player.vimeo.com https://*.dailymotion.com
https://*.twitch.tv https://player.twitch.tv https://clips.twitch.tv https://*.tiktok.com
https://*.loom.com https://*.wistia.com https://fast.wistia.net https://streamable.com
https://*.vidyard.com https://rumble.com https://*.soundcloud.com https://w.soundcloud.com
https://embed.music.apple.com https://*.deezer.com https://widget.deezer.com
https://*.bandcamp.com https://*.mixcloud.com https://*.audiomack.com https://anchor.fm
https://*.transistor.fm https://*.stackblitz.com https://*.replit.com https://*.glitch.com
https://jsbin.com https://*.observablehq.com https://carbon.now.sh https://ascinema.org
https://platform.twitter.com https://*.instagram.com https://*.reddit.com
https://*.linkedin.com https://assets.pinterest.com https://*.figma.com https://*.canva.com
https://docs.google.com https://*.pitch.com https://prezi.com https://*.slideshare.net
https://speakerdeck.com https://maps.google.com https://*.openstreetmap.org
https://*.notion.so https://*.notion.site https://*.airtable.com https://*.typeform.com
https://form.typeform.com https://calendly.com https://*.miro.com https://excalidraw.com
https://*.diagrams.net https://whimsical.com https://*.lottiefiles.com https://lottie.host
```


```

https://*.sketchfab.com

<https://www.youtube.com/watch?v=UclrVWafRAI>

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