

# mdbook Logo Pipeline

A robust shell script pipeline for adding company logos to mdbook projects with template-based customization and batch processing capabilities.

## Features

- **Template-based approach:** Separate code from data using external CSS and configuration templates
- **Batch processing:** Set up logos across multiple mdbook projects efficiently
- **Robust error handling:** Comprehensive validation, backup creation, and error recovery
- **Responsive design:** Mobile-friendly logo placement with dark theme support
- **Accessibility:** High contrast mode, reduced motion preferences, and RTL language support
- **Safe operations:** Automatic backups of existing files before modification
- **Flexible configuration:** Support for different logos per project or shared logos

## Quick Start

1. **Download the pipeline files**
2. **Make scripts executable:**

```
bash
```

```
chmod +x mdbook-logo-setup.sh batch-setup-example.sh
```

3. **Set up a single project:**

```
bash
```

```
cd /path/to/your/mdbook/project
```

```
LOGO_PATH=/path/to/logo.png \
```

```
CSS_TEMPLATE_PATH=./templates/mdbook-logo.css \  
./mdbook-logo-setup.sh
```

## Directory Structure

```
mdbook-logo-pipeline/
├── README.md           # This file
├── mdbook-logo-setup.sh # Main setup script
├── batch-setup-example.sh # Multi-project batch processor
├── templates/
│   ├── mdbook-logo.css # CSS template with logo styling
│   └── book-config-addition.toml # mdbook configuration template
└── examples/
    └── logos/           # Example logo files
```

## Installation

### 1. Clone or download this repository:

```
bash
```

```
git clone <repository-url>
```

```
cd mdbook-logo-pipeline
```

### 2. Make scripts executable:

```
bash
```

```
chmod +x *.sh
```

### 3. Verify prerequisites:

- mdbook installed
- Bash shell (Linux/macOS/WSL)
- Logo files in supported formats (PNG, JPG, JPEG, GIF, SVG, WebP)

## Usage

### Single Project Setup

```
bash
```

```
cd /path/to/your/mdbook/project
```

*# Basic usage with CSS template*

```
LOGO_PATH=/path/to/logo.png \  
CSS_TEMPLATE_PATH=./templates/mdbook-logo.css \  
./mdbook-logo-setup.sh
```

*# With book configuration template*

```
LOGO_PATH=/path/to/logo.png \  
CSS_TEMPLATE_PATH=./templates/mdbook-logo.css \  
BOOK_CONFIG_TEMPLATE_PATH=./templates/book-config-addition.toml \  
./mdbook-logo-setup.sh
```

## Batch Processing Multiple Projects

1. **Edit** `batch-setup-example.sh` to configure your projects:

```
bash
```

*# Individual logos per project*

```
PROJECTS=(  
    "/path/to/project1:/path/to/logos/company1-logo.png"  
    "/path/to/project2:/path/to/logos/company2-logo.svg"  
    "/path/to/project3:/path/to/logos/company3-logo.png"  
)
```

Or use a shared logo:

```
bash
```

*# Shared logo for all projects*

```
SHARED_LOGO="/path/to/shared/company-logo.png"  
PROJECTS=(  
    "/path/to/project1"  
    "/path/to/project2"  
    "/path/to/project3"  
)
```

2. **Run the batch processor:**

```
bash
```

```
./batch-setup-example.sh
```

## Environment Variables

## Required

- `LOGO_PATH`: Full path to the logo file
- `CSS_TEMPLATE_PATH`: Full path to the CSS template file

## Optional

- `BOOK_CONFIG_TEMPLATE_PATH`: Full path to book.toml template (falls back to inline config)

## Template System

### CSS Template (`templates/mdbook-logo.css`)

The CSS template uses placeholders that are automatically replaced:

- `LOGO_FILENAME`: Replaced with the actual logo filename

### Key features:

- Responsive design (mobile, tablet, desktop)
- Dark theme compatibility (coal, navy, ayu themes)
- Accessibility support (high contrast, reduced motion)
- RTL language support
- Print CSS (hides logo when printing)
- Optional animations and hover effects (commented out)

### Book Configuration Template (`templates/book-config-addition.toml`)

Contains mdbook configuration options including:

- Custom CSS inclusion
- Optional theme settings
- Search configuration examples
- Git repository integration
- Additional customization options

## What the Script Does

1. **Validates** environment variables and file paths
2. **Checks** mdbook project structure
3. **Creates** `theme/` directory if needed

4. **Copies** logo file to project's theme directory
5. **Processes** CSS template, substituting placeholders
6. **Updates** `book.toml` with configuration
7. **Creates** timestamped backups of existing files
8. **Verifies** setup completion

## Customization

### Creating Custom CSS Templates

Copy and modify `templates/mdbook-logo.css`:

```
css

/* Your custom CSS */
.menu-title::before {
  content: "";
  background: url('LOGO_FILENAME') no-repeat center;
  /* Your custom styling */
}
```

The `LOGO_FILENAME` placeholder will be automatically replaced.

### Logo Positioning Options

The default template places logos:

- Before the menu title (always visible)
- Optionally before chapter titles (commented out)

Uncomment sections in the CSS template to enable additional logo placements.

### Theme Compatibility

The CSS template includes optimizations for all mdbook themes:

- **Light theme:** Default brightness
- **Coal/Navy themes:** Slight brightness reduction
- **Ayu theme:** Enhanced contrast for visibility

## Advanced Usage

### Multiple CSS Templates

Create different templates for different project types:

```
bash

# Corporate template
CSS_TEMPLATE_PATH=./templates/corporate-logo.css

# Open source template
CSS_TEMPLATE_PATH=./templates/oss-logo.css

# Minimal template
CSS_TEMPLATE_PATH=./templates/minimal-logo.css
```

## Custom Project Configurations

Use different book configuration templates:

```
bash

# API documentation projects
BOOK_CONFIG_TEMPLATE_PATH=./templates/api-docs-config.toml

# User guides
BOOK_CONFIG_TEMPLATE_PATH=./templates/user-guide-config.toml
```

## Error Handling

The scripts include comprehensive error handling:

- **Validation:** Checks all file paths and permissions before processing
- **Backups:** Creates timestamped backups of existing files
- **Rollback:** Manual rollback using backup files if needed
- **Cleanup:** Proper cleanup on script interruption
- **Reporting:** Detailed success/failure reporting for batch operations

## Troubleshooting

### Common Issues

1. **"Logo file does not exist"**
  - Verify the `LOGO_PATH` points to an existing file
  - Check file permissions (must be readable)

## 2. "Not in a valid mdbook project directory"

- Ensure you're in a directory containing `book.toml`
- Run `mdbook init` to create a new project if needed

## 3. "CSS template file does not exist"

- Check the `CSS_TEMPLATE_PATH` is correct
- Ensure template files are in the expected location

## 4. Logo not appearing

- Run `mdbook build` and check the output
- Verify logo file was copied to `theme/` directory
- Check browser developer tools for CSS issues

## Getting Help

### 1. Run with help flag:

```
bash
```

```
./mdbook-logo-setup.sh --help  
./batch-setup-example.sh --help
```

2. **Check script output:** Scripts provide detailed logging with color-coded messages

3. **Verify file structure:** Ensure all required files are present and accessible

## Examples

### Corporate Documentation Setup

```
bash
```

```
# Set up 20 different project documentation with individual company logos
```

```
for i in {1..20}; do  
  cd "/path/to/docs/company${i}"  
  LOGO_PATH="/assets/logos/company${i}-logo.png" \  
  CSS_TEMPLATE_PATH="/shared/templates/corporate-mdbook.css" \  
  BOOK_CONFIG_TEMPLATE_PATH="/shared/templates/corporate-config.toml" \  
  /shared/scripts/mdbook-logo-setup.sh  
done
```

### Open Source Project Setup

```
bash
```

```
# Single logo across multiple project repositories
SHARED_LOGO="/assets/oss-project-logo.svg"
for project in /repos/*/docs; do
  cd "$project"
  LOGO_PATH="$SHARED_LOGO" \
  CSS_TEMPLATE_PATH="/templates/oss-mdbook.css" \
  /scripts/mdbook-logo-setup.sh
done
```

## Benefits

- **Maintainable:** Update CSS template once, apply everywhere
- **Flexible:** Different templates for different project types
- **Version Controlled:** Templates can be versioned separately from projects
- **Testable:** Easy to test template changes before deployment
- **Reusable:** Same templates across different environments
- **Safe:** Automatic backups prevent data loss
- **Scalable:** Efficient batch processing for large numbers of projects

## Contributing

1. Fork the repository
2. Create a feature branch
3. Make your changes
4. Test with multiple mdbook projects
5. Submit a pull request

## License

[Add your license information here]

## Changelog

### v1.0.0

- Initial release with template-based system
- Batch processing support
- Comprehensive error handling



- Responsive CSS with accessibility features