Documentation Organization Plan

Table of Contents

Document Structure Guidelines

Common Front Matter Components

Each manual will have the following structure with separate files:

- book-info.adoc (ISBN, copyright, publication info)

- title-page.adoc

- abstract.adoc

- foreword.adoc

- contents.adoc

- preface.adoc

Directory Structure

```
hardware-manual/
    └────── front-matter/
        ├────── book-info.adoc
        ├────── title-page.adoc
        ├────── abstract.adoc
        ├────── foreword.adoc
        ├────── contents.adoc
        └────── preface.adoc
    └────── parts/
        ├────── part1-architecture/
        │       ├────── chapter1-intro.adoc
        │       ├────── chapter2-overview.adoc
        │       ├────── chapter3-design.adoc
        │       ├────── chapter4-computational-models.adoc
        │       └────── chapter5-system-configurations.adoc
```

```
            ├──── part2-components/
            │     ├──── chapter1-overview.adoc
            │     ├──── chapter2-modules.adoc
            │     ├──── chapter3-interfaces.adoc
            │     └──── chapter4-specifications.adoc
            └──── part3-video/
      └──── back-matter/
            ├──── appendices.adoc
            ├──── glossary.adoc
            └──── index.adoc
      └──── hardware-manual.adoc (main include file)

software-manual/            # Based on existing Kingfisher documentation
      └──── front-matter/
            ├──── book-info.adoc
            ├──── title-page.adoc
            ├──── abstract.adoc
            ├──── foreword.adoc
            ├──── contents.adoc
            └──── preface.adoc
      └──── parts/
            ├──── part1-getting-started/
            │     ├──── chapter1-introduction.adoc
            │     ├──── chapter2-quick-start.adoc
            │     └──── chapter3-basic-concepts.adoc
            ├──── part2-fundamentals/
            │     ├──── chapter1-architecture-overview.adoc
            │     ├──── chapter2-core-concepts.adoc
            │     └──── chapter3-basic-operations.adoc
            ├──── part3-architecture/
            │     ├──── chapter1-system-architecture.adoc
            │     ├──── chapter2-hardware-model-support.adoc
            │     └──── chapter3-implementation.adoc
            ├──── part4-runtime/
            │     ├──── chapter1-execution-model.adoc
            │     ├──── chapter2-memory-management.adoc
            │     └──── chapter3-io-subsystem.adoc
            ├──── part5-development/
            │     ├──── chapter1-development-environment.adoc
            │     ├──── chapter2-programming-guide.adoc
            │     └──── chapter3-debugging.adoc
            └──── part6-reference/
                  ├──── chapter1-api-reference.adoc
                  ├──── chapter2-system-calls.adoc
                  └──── chapter3-hardware-interfaces.adoc
      └──── back-matter/
            ├──── appendices.adoc
            ├──── glossary.adoc
            └──── index.adoc
      └──── software-manual.adoc (main include file)
```

Main Document Structure

hardware-manual.adoc template

```
[existing hardware manual content]
```

software-manual.adoc template

```
= Aves Software Reference Manual
:doctype: book
:toc:
:sectnums:

Unresolved directive in <stdin> - include::front-matter/book-info.adoc[]
Unresolved directive in <stdin> - include::front-matter/title-page.adoc[]
Unresolved directive in <stdin> - include::front-matter/abstract.adoc[]
Unresolved directive in <stdin> - include::front-matter/foreword.adoc[]
Unresolved directive in <stdin> - include::front-matter/contents.adoc[]
Unresolved directive in <stdin> - include::front-matter/preface.adoc[]

Unresolved directive in <stdin> - include::parts/part1-getting-started/*.adoc[]
Unresolved directive in <stdin> - include::parts/part2-fundamentals/*.adoc[]
Unresolved directive in <stdin> - include::parts/part3-architecture/*.adoc[]
Unresolved directive in <stdin> - include::parts/part4-runtime/*.adoc[]
Unresolved directive in <stdin> - include::parts/part5-development/*.adoc[]
Unresolved directive in <stdin> - include::parts/part6-reference/*.adoc[]

Unresolved directive in <stdin> - include::back-matter/appendices.adoc[]
Unresolved directive in <stdin> - include::back-matter/glossary.adoc[]
Unresolved directive in <stdin> - include::back-matter/index.adoc[]
```

Git Branch Strategy

Main Branch Structure

- `main` - stable, released version
- `develop` - integration branch

Feature Branch Organization

Feature branches should be organized by logical content groups:

```
feature/hw-core-architecture    # Architecture and computational models
feature/hw-subsystems           # Components and video sections
feature/sw-user-guide           # Getting started and fundamentals
feature/sw-technical-reference  # Architecture, runtime, and development
```

Task-Based Branches

For specific updates:

```
feature/front-matter-copyright-update
feature/hw-diagrams-update
feature/sw-api-documentation
feature/common-glossary-update
```

Build Configuration

Makefile targets for different outputs:

```
pdf-full: Generate complete PDF with all sections
pdf-front: Generate front matter only (for review)
pdf-body: Generate main content without front/back matter
pdf-parts: Generate individual part PDFs
html: Generate HTML version
```

Implementation Notes

1. Front Matter

   - Each component in separate file for independent review/printing
   - Consistent styling across both manuals
   - Version control friendly
   - Maintained in main branch structure, not separate branch

2. Main Content

   - Organized by parts and chapters
   - Cross-references use document IDs
   - Images in separate directories
   - Code listings as separate files

3. Build System

   - Makefile targets for different outputs
   - PDF generation with proper page numbering
   - HTML with navigation
   - Index generation
   - Cross-reference validation

4. Version Control

   - Each part can be worked on independently

- Clear separation of content and structure

- Easy to track changes in specific sections

- Regular merges from develop to feature branches

5. Quality Control

- Separate build targets for reviewing sections

- Validation of cross-references

- Style guide compliance checking

- Technical review process

- Branch protection on main and develop

6. Migration Notes

- Software manual based on existing Kingfisher documentation

- Restructure Kingfisher content to match new organization

- Preserve existing content while reorganizing

- Update cross-references and links

- Ensure consistent styling with hardware manual