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# **FionaDocs**

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**Jun 08, 2025**



## CONTENTS



Welcome to the MMIV documentation guide.

This documentation demonstrates how to create technical documentation using Sphinx.



## ABOUT MMIV

The Mohn Medical Imaging and Visualization Centre (MMIV) is a research centre at Haukeland University Hospital in Bergen, Norway.

MMIV focuses on:

- Advanced medical imaging research
- Machine learning applications in healthcare
- Precision medicine through imaging biomarkers
- Clinical translation of research innovations





## DOCUMENTATION EXAMPLES

### 2.1 Basic Documentation Elements

This chapter shows basic formatting in reStructuredText.

#### 2.1.1 Text Formatting

You can format text in different ways:

- **Bold text** using double asterisks
- *Italic text* using single asterisks
- `Code text` using double backticks

#### 2.1.2 Lists

Simple bullet list:

- First item
- Second item
- Third item

Numbered list:

1. First step
2. Second step
3. Third step

#### 2.1.3 Links

You can create links:

- External link: <https://mmiv.no>
- Named link: [MMIV Website](#)

#### 2.1.4 Tables

Simple table:

Header 1	Header 2	Header 3
Row 1 Col 1	Row 1 Col 2	Row 1 Col 3
Row 2 Col 1	Row 2 Col 2	Row 2 Col 3

### 2.1.5 Note Boxes

#### Note

This is a note box for important information.

#### Warning

This is a warning box.

## 2.2 Code Examples

This chapter shows how to include code in documentation.

### 2.2.1 Basic Code Block

Simple code without highlighting:

```
def hello_world():  
    print("Hello, World!")  
    return True
```

### 2.2.2 Python Code

Python code with syntax highlighting:

```
def analyze_data(data):  
    """  
    Analyze input data.  
  
    Parameters:  
    -----  
    data : list  
        Input data  
  
    Returns:  
    -----  
    dict  
        Results  
    """  
    result = sum(data) / len(data)  
    return {'average': result, 'count': len(data)}
```

### 2.2.3 JavaScript Code

```
function processData(data) {
  const result = data.map(item => item * 2);
  return {
    original: data,
    processed: result,
    length: data.length
  };
}
```

### 2.2.4 Inline Code

You can include inline code like `import numpy` or reference functions like `analyze_data()` within text.

### 2.2.5 Configuration Example

YAML configuration:

```
project:
  name: "Documentation Example"
  version: "1.0.0"

settings:
  output: "html"
  theme: "default"
```

## 2.3 Advanced Features

This chapter shows advanced documentation features.

### 2.3.1 Complex Tables

Feature comparison table:

Table 1: Feature Comparison

Feature	Version 1.0	Version 2.0	Notes
Real-time Processing	No	Yes	Added in v2.0
Multi-format Support	Yes	Yes	Multiple formats
GPU Acceleration	Yes	Yes	CUDA support

### 2.3.2 CSV Table

Table 2: Sample Data

Name	Age	City
Alice	25	Bergen
Bob	30	Oslo
Charlie	35	Trondheim

### 2.3.3 Mathematical Formulas

Basic math formula:

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2}$$

Inline math:  $E = mc^2$

### 2.3.4 ASCII Diagrams

Simple diagram:

Data Flow:

```
Input -> Processing -> Output
      |
      v
    Validation
```

### 2.3.5 References

You can reference citations like this [?].

### 2.3.6 Glossary

**MMIV**

Mohn Medical Imaging and Visualization Centre

**API**

Application Programming Interface

### 2.3.7 Version Info

Added in version 1.0: Initial release.

Changed in version 2.0: Added new features.

## CONTACT INFORMATION

- Website: <https://mmiv.no>
- Location: Haukeland University Hospital, Bergen, Norway



## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`





## BIBLIOGRAPHY

[Smith2024] Smith, J. “Documentation Best Practices”, 2024.