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1 Multi-Format Multi-Language Python Tutorial Plan

1.1 Output Formats

- **Book:** Web (HTML) + PDF versions
- **Slides:** RevealJS presentations for each chapter
- **Languages:** English and Japanese versions

1.2 Repository Structure

```
python-tutorial/  
  en/                                # English content  
    book/                            # Book chapters (.qmd)  
    slides/                          # Slide presentations (.qmd)  
    _quarto.yml                      # English Quarto config  
  ja/                                # Japanese content  
    book/                            # Book chapters (.qmd)  
    slides/                          # Slide presentations (.qmd)  
    _quarto.yml                      # Japanese Quarto config  
  shared/                            # Shared resources  
    code/                            # Code examples  
    data/                            # Sample datasets  
    images/                          # Images and diagrams  
  _quarto.yml                        # Main project config  
  plans/, .states/                  # Project tracking
```

1.3 Quarto Configuration Strategy

1.3.1 Main Project (_quarto.yml)

- Define global settings
- Multi-language book project

- Output to docs/ for GitHub Pages

1.3.2 Language-Specific Configs

- `**en/_quarto.yml**`: English book + slides
- `**ja/_quarto.yml**`: Japanese book + slides

1.3.3 Output Targets

1. **HTML Book**: Interactive web version
2. **PDF Book**: Printable/downloadable version
3. **RevealJS Slides**: Chapter-by-chapter presentations
4. **GitHub Pages**: Host all formats

1.4 Content Synchronization

- Maintain parallel EN/JP content structure
- Shared code examples and datasets
- Consistent chapter numbering and exercises
- Cross-language navigation links

1.5 Build Process

1. Build English book + slides
2. Build Japanese book + slides
3. Deploy to GitHub Pages with language selector
4. Generate PDFs for both languages

1.6 Technical Implementation

- Quarto book project with multiple languages
- RevealJS for interactive slides
- Custom CSS for modern design
- GitHub Actions for automated builds
- GitHub Pages for hosting all formats