Page 1: Title Page

PDF Page Range Read - Feature Trial

Test Document with 15 Pages

For Claude Code v2.1.30 Testing

Page 2: Table of Contents

1. Introduction ..... Page 3

2. Background ..... Page 4

3. Architecture ..... Page 5

4. Implementation ..... Page 6

5. Testing Strategy ..... Page 7

Page 3: Introduction

This document is designed to test the PDF page range reading feature in Claude Code v2.1.30.

It contains 15 pages of varied content.

Page 4: Background

Before v2.1.30, reading a PDF meant loading all pages.

This consumed significant context window space.

The new pages parameter solves this problem.

Page 5: Architecture

The Read tool now accepts a pages parameter.

Format: string (e.g., '1-5', '3', '10-20')

Maximum 20 pages per request.

Page 6: Implementation Details

The implementation parses the pages parameter

and extracts only the specified page range.

This reduces token consumption significantly.

Page 7: Testing Strategy

Test cases:

1. Single page: pages='3'

2. Range: pages='1-5'

3. Large range: pages='5-15'

4. Full document: no pages param

Page 8: Performance Metrics

Context savings with page range:

- 5-page PDF, 2 pages: ~60% reduction
- 15-page PDF, 3 pages: ~80% reduction
- 50-page PDF, 5 pages: ~90% reduction

Page 9: Edge Cases

Edge cases to consider:

- pages='0' (invalid)

- pages='100' (beyond document)

- pages='5-3' (reversed range)

- pages='' (empty string)

Page 10: @ Mention Behavior

For PDFs over 10 pages:

- @ mention returns lightweight reference
- Content is NOT inlined into context
- User must use Read tool with pages param

Page 11: Best Practices

Recommended usage patterns:

- Always specify pages for large PDFs
- Use table of contents to identify needed pages
- Combine with Grep for targeted searches

Page 12: Integration Notes

Works with existing Claude Code features:

- File references in conversation
- Subagent file reading
- Worktree isolated environments

Page 13: Limitations

Current limitations:

- Max 20 pages per request
- No support for page labels (e.g., 'iv', 'A-1')
- Binary/scanned PDFs may have reduced accuracy

Page 14: Future Improvements

Potential enhancements:

- OCR for scanned documents

- Table extraction

- Image extraction from PDF pages

- Cross-reference support

Page 15: Summary

This 15-page test document covers all aspects

of the PDF page range reading feature.

Use this to verify both short and long range reads.