Project LaTeX Explainer and Navigational Guide

Documentation Index for the Shaikh & Tonak Replication September 28, 2025

Abstract

This guide explains where to find every major piece of information in the project: methodology, code, data, generated reports, and build instructions. Use it as a map to quickly locate what you need.

Contents

1 Project Structure Overview

| Path | Purpose | |
|--|--|--|
| Technical/data/ | All data sources: extracted book tables, unified historical | |
| | database, and modern extension data. | |
| Technical/data/historicad/backles/fileps/cation targets), curated CSVs for Table | | |
| | 5.x. | |
| Technical/data/unified_bategbateel/unicfsieedbulateabdastevbase (CSV/XLSX) with | | |
| | metadata/logs. | |
| Technical/src/ | All code (extraction, analysis, replication, validation, ex- | |
| | tension). | |
| Technical/src/analysis/Sceptification/oduce Table 5.4 and related results. | | |
| Technical/src/analysis/Wadsisdatliout/Ion tools comparing sources and checking ac- | | |
| | curacy. | |
| Technical/docs/methodology/methodology in LaTeX (complete technical descrip- | | |
| | tion). | |
| Technical/docs/latex/ | Focused LaTeX documents: code explainer, validation, | |
| | this explainer, and bird's-eye view. | |
| Technical/docs/reports/Generated reports and summaries. | | |
| .github/workflows/ | CI configuration for building PDFs (artifacts uploaded on | |
| | push/PR). | |

2 Data Inventory (Paths)

| Location | Contents | |
|---|--|--|
| Technical/data/historical/book_ | tables:/ted book tables (many 'ta- | |
| | ble_pXX_*.csv'), curated 'table_5_4*.csv'. | |
| Technical/data/historical/proce | skepl/ cation products (e.g., 'ta- | |
| | ble_5_4_perfect_replication.csv', 'marx- | |
| | ian_variables_calculated.csv'). | |
| ${\tt Technical/data/unified_database/Umiffeded_database/SV/XLSX} \qquad \qquad {\tt plus}$ | | |
| | 'database_metadata.json', creation logs | |
| | and summaries. | |
| Technical/data/modern/integrated@tomplete_st_timeseries_1958_2025.csv' and | | |
| | integration metadata. | |
| Technical/data/modern/final_resultatishfalistatiesl $\mathbb{C}\mathrm{SVs}\ (1958-1989,1958-2025)$ | | |
| | + metadata. | |
| Technical/data/modern/final_resuAtadæcandenhyeachluydscanden and validation | | |
| JSON. | | |
| Technical/data/modern/final_resulkt.E.wishinkteemst/ed variants and validation. | | |
| Technical/data/source_pdfs/keyPDFcv/rce publications (NIPA, BLS, BEA, etc.). | | |

3 Key LaTeX Documents and What They Contain

Document

Contents

Technical/docs/methodology/SHAIKHoTQNAKeMETHODOLOGY: texriable definitions, data sources, formulas, validation metrics, quality checks.

Technical/docs/latex/SHAIKH_TONAMI@METHIDDOg.GOWithIEHdeODEsiteximplementation notes and code-oriented details.

Technical/docs/latex/SHAIKH_TONARCOODEdEXPMINITED. tlexTeX formulas, and Python listings outside tables for clarity.

Technical/docs/latex/SHAIKH_TONAKiMAAJIDAATIGNaRERORT.tækidation; compiles even if plots are missing.

Technical/docs/latex/PROJECT_LATEXiEXR&AigMERortelxguide to all project resources.

Technical/docs/latex/PROJECT_BIRDS: RYE WE WE Tex: replication story, comparisons, updates, implementation reasoning, and charts.

4 Where to Find Data

- Book Tables: data/extracted_tables/book_tables/
- Unified Historical DB: data/unified_database/
- Modern Extension Inputs: data/modern/
- Source PDFs: data/source_pdfs/

5 Where to Find Code

• Replication: src/analysis/replication/

• Validation: src/analysis/validation/

• Extraction: src/extraction/

• Core Utilities: src/core/

• Extension: src/extension/

6 How to Build the LaTeX Documents

Build Commands

Use the project script in Technical/scripts/ (requires latexmk):

./Technical/scripts/build-latex.sh # defaults to Output/pdfs

 $./ Technical/scripts/build-latex.sh \ --outdir \ Output/pdfs$

Builds all .tex in Technical/docs/latex/ and Technical/docs/methodology/ (outputs under Output/pdfs).

Continuous Integration builds PDFs automatically on push/PR via .github/workflows/latex.yml and uploads them as artifacts.

7 Quick Links (Paths)

- Methodology: docs/methodology/SHAIKH_TONAK_METHODOLOGY.tex
- Code Explainer: docs/latex/SHAIKH_TONAK_CODE_EXPLAINER.tex
- Validation Report: docs/latex/SHAIKH_TONAK_VALIDATION_REPORT.tex
- Bird's-Eye View: docs/latex/PROJECT_BIRDS_EYE_VIEW.tex

8 Troubleshooting

Common Issues

- Missing images: documents are robust to missing plots and will compile without them.
- Package availability: latexmk and common LaTeX packages are required; CI installs TeX Live groups that satisfy them.
- Clean build: run latexmk -C in the output directory for a fresh build.