PRO EDITION

ResearchLens PRO

User Documentation & Legal Disclaimer

Browser-Based Academic Content Analysis Platform
Qualitative · Quantitative · Mixed Methods Research
Built for PhD students, researchers, dissertation writers & educators

Version 11.0 · April 2025 · https://researchlenspro.com

100% Private | Browser-Local | No Login Required | Free Forever | No Server

PLATFORM CAPABILITIES

- PDF / DOCX / TXT Ingestion
- Frequency Analysis
- 7-Section Interpretation
- Theme Development
- OCR via Tesseract.js
- RQ Answers & Findings
- Manual Coding Workspace
- APA Report Builder
- Thematic Coding
- Visualization Dashboard
- Evidence Matrix
- Admin Analytics Panel

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CHAPTER 1

Platform Overview & Introduction

Understanding what ResearchLensPRO is, what it does, and who it is built for.

ResearchLensPRO™ is a free, browser-based academic content analysis platform developed by Dr. Rony A. Rodas, Ph.D., under Rontechmedia. It supports qualitative, quantitative, and mixed-methods research through a complete workflow: document ingestion, thematic coding, frequency analysis, visualization, interpretation, and report generation. All processing occurs locally in the user's browser — no documents are ever uploaded to any server.

What is ResearchLensPRO?

ResearchLensPRO bridges the gap between expensive professional research software and basic manual methods. It provides a rigorous, structured content analysis environment that runs entirely in a web browser at no cost, designed for PhD students, master's candidates, dissertation writers, educators, and independent researchers.

TIP ResearchLensPRO is available at **https://researchlenspro.com**. No login, no registration, and no data transmission to any server is required or performed.

Key Features

PDF / DOCX / TXT Ingestion	Reads .pdf (including scanned PDFs via Tesseract.js OCR), .docx, and .txt files directly in the browser using PDF.js, Mammoth.js, and Tesseract.js.
Qualitative Analysis	Thematic coding, manual code workspace, evidence matrix, theme development, contradiction review, and audit trail.
Quantitative Analysis	Frequency counts, percentage distributions, term-by-document matrix, and statistical summaries.
Mixed Methods	Unified workflow combining qualitative theme interpretation with quantitative frequency data.
Smart Code Generator	Generates synonym-based academic codes from your research questions — not the question words themselves, but academically relevant synonyms and related concepts.
RQ Answers & Findings	Directly answers every research question using the evidence from the analysis, with Rich / Moderate / Limited strength ratings.
Visualization Dashboard	Bar charts, doughnut charts, stacked bar, document comparison bars, and word cloud — each with a findings summary narrative.
7-Section Interpretation Engine	Auto-generated academic interpretation: summary, RQ connection, themes, evidence statement, caution, recommendation, and paper-ready paragraph.
Project Setup Fields	Research topic, problem statement, purpose, scope, theoretical framework, and theories list — all integrated into reports.

Admin Analytics	Password-protected panel with visit tracking, new/returning classification, IP geolocation, bot filtering, and CSV export.
Save / Load Projects	Full state saved as a single JSON file including documents, codes, themes, excerpts, and results.
100% Private	Zero server involvement. All documents and data remain on the user's local device at all times.

System Requirements

Browser	Chrome 100+, Firefox 100+, Edge 100+, or Safari 15+. JavaScript must be enabled.
Device	Desktop or laptop recommended. Functional on tablets but optimized for wider screens.
RAM	4 GB minimum recommended for large document sets or OCR processing.
File Size	Documents ideally under 50 MB each for best performance.
Internet	Required only for initial page load (CDN libraries). All analysis runs offline after loading.

Privacy Guarantee

When you upload a document, text is extracted by JavaScript running locally on your machine. No file content is transmitted to any external server, cloud service, or third party. The only network activity is fetching libraries from public CDNs on initial load, and optionally fetching IP geolocation for the admin analytics panel. Your research data is yours alone.

CHAPTER 2

Legal Disclaimer & Terms of Use

Read carefully before using ResearchLensPRO. Use constitutes acceptance of these terms.

IMPORTANT BY ACCESSING OR USING RESEARCHLENSPRO YOU ACKNOWLEDGE THAT YOU HAVE READ, UNDERSTOOD, AND AGREE TO BE BOUND BY THESE TERMS. IF YOU DO NOT AGREE, DO NOT USE THIS PLATFORM.

1. No Professional Research, Legal, or Academic Advice

ResearchLensPRO is a software tool that assists with content analysis tasks. It is NOT a substitute for professional research methodology expertise, academic supervision, IRB guidance, statistical consultation, legal advice, or any other professional service. All outputs — including frequency counts, interpretation paragraphs, theme clusters, and research question answers — are algorithmically produced and must be reviewed, verified, and validated by the researcher before use in any academic submission, publication, grant application, legal proceeding, or official report.

2. Limitation of Liability

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, RONTECHMEDIA AND DR. RONY A. RODAS, PH.D. (THE "DEVELOPERS") SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE, OR EXEMPLARY DAMAGES, INCLUDING BUT NOT LIMITED TO:

- Loss of data, research findings, or academic work resulting from platform errors or browser limitations
- Incorrect, misleading, or incomplete analysis outputs generated by the platform
- Academic sanctions, failed submissions, or rejected publications resulting from reliance on platform outputs
- Errors in OCR text extraction from scanned or image-based PDFs
- Data loss due to browser crashes, system failures, or failure to save project files
- Any claim arising from use of this platform in a legal, regulatory, or compliance context
- Any damages arising from reliance on the platform's research question answers, interpretation, or findings summaries

THE DEVELOPERS' TOTAL LIABILITY FOR ANY CLAIM ARISING FROM USE OF THIS PLATFORM SHALL NOT EXCEED ZERO DOLLARS ($0.00), AS THE PLATFORM IS PROVIDED FREE OF CHARGE WITH NO WARRANTY.

3. No Warranty

THIS PLATFORM IS PROVIDED "AS IS" AND "AS AVAILABLE" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. THE DEVELOPERS EXPRESSLY DISCLAIM ALL WARRANTIES INCLUDING BUT NOT LIMITED TO: warranties of merchantability, fitness for a particular purpose, non-infringement, error-free operation, accurate OCR extraction, academically validated interpretation outputs, and continuous availability.

4. Research Responsibility & Academic Integrity

The user is solely responsible for the academic integrity and validity of any research conducted using this platform. The following responsibilities rest entirely with the researcher:

- Designing a valid, peer-defensible coding scheme appropriate to the research methodology
- Selecting documents that are appropriately licensed and relevant to the research questions
- Verifying that all OCR-extracted text accurately reflects the content of the original documents
- Reading all context excerpts and validating that frequency matches reflect genuine conceptual usage
- Not relying solely on algorithmically generated interpretation paragraphs for academic conclusions
- Disclosing the use of this tool in any methods section where applicable
- Complying with all applicable IRB, ethics board, and institutional research integrity requirements
- Ensuring uploaded documents do not contain protected information under HIPAA, FERPA, GDPR, or other applicable privacy laws

5. Acceptable Use Policy

Users agree NOT to use ResearchLensPRO for:

- Processing classified, restricted, or confidential government information
- Uploading or analyzing personally identifiable health, financial, or legal records without proper authorization
- Academic fraud, plagiarism, or misrepresentation of research findings
- Any activity that violates applicable laws or regulations
- Commercial research products sold to third parties without attribution
- Attempting to reverse-engineer or extract proprietary source code from the platform

6. Intellectual Property

ResearchLensPRO™ is a trademark of Rontechmedia. The platform's source code, design, documentation, and all associated content are the intellectual property of Dr. Rony A. Rodas, Ph.D. and Rontechmedia. Unauthorized reproduction, distribution, modification, or commercial use is prohibited without prior written consent. The user retains full ownership of all documents uploaded, codes entered, and data created. No user content is stored, accessed, or claimed by Rontechmedia or Dr. Rony A. Rodas.

7. Third-Party Libraries

Library	License	Purpose
PDF.js	Apache 2.0	Mozilla Foundation — PDF text extraction
Mammoth.js	BSD 2-Clause	Tim Martin — DOCX parsing
Tesseract.js	Apache 2.0	Naptha — In-browser OCR
Chart.js	MIT	Chart.js Contributors — Data visualization
Google Fonts	SIL OFL / Apache 2.0	Playfair Display, Inter typefaces

8. Governing Law

These terms are governed by the laws of the State of New York, United States of America. Any disputes shall be resolved through binding arbitration in New York, NY under AAA rules. The user waives any right to a jury trial or class action proceeding in connection with any dispute arising from the use of this platform. Rontechmedia reserves the right to modify these terms at any time. Continued use after modification constitutes acceptance of the updated terms.

CHAPTER 3

Getting Started — Quick Setup Workflow

The recommended step-by-step process for getting the best results from ResearchLensPRO.

ResearchLensPRO is designed around a linear workflow. Following the steps in order ensures the analysis engine has everything it needs to produce accurate, meaningful, and defensible findings. Skipping steps — particularly project setup and code definition — will produce weaker results.

1	**Complete Project Setup** Enter project title, researcher name, research topic, problem statement, purpose, scope, theoretical framework, and list of theories.
2	**Add Research Questions** Enter one or more specific, focused research questions. Each receives its own analysis, findings answer, and interpretation.
3	**Select Research Methodology** Choose Qualitative, Quantitative, or Mixed Methods. This shapes how results are displayed and interpreted.
4	**Upload Source Documents** Upload .pdf, .docx, or .txt files. OCR is automatic for scanned PDFs. Multiple files are supported.
5	**Add Search Terms with Definitions** Enter keywords, phrases, themes, or codes. Add a definition to each term to strengthen context capture.
6	**Run the Analysis** Click Run Analysis. The engine scans all documents for all coded terms and produces frequency data and context excerpts.
7	**Review Results & Visualizations** Check the Results Dashboard and Charts, including the findings summary narrative below each chart.
8	**Review RQ Answers & Findings** Navigate to RQ Answers & Findings (Tab 8A) for the direct answer to each research question.
9	**Review Interpretation** Read the 7-section interpretation and rule-based interpretation for each research question.
10	**Generate & Export Report** Use the Report Builder or Export section to download your analysis as HTML, CSV, or JSON.

Project Setup Best Practices

- Research Topic: Be specific. "The role of distance learning technology in U.S. Army retention" is better than "technology in the military."

• Problem Statement: Describe the gap in the literature. What is unknown or inadequately addressed? This text frames why your findings matter.

• Purpose of Study: State what the study intends to accomplish. Use "This study examines..." or "The purpose is to..."

• Scope: Define boundaries explicitly — what is included AND excluded. Populations, time periods, geographic regions all belong here.

• Theoretical Framework: Name the theory AND explain its application to your topic. Simply naming it is not sufficient.

• List of Theories: Enter each on a separate line. "Technology Acceptance Model (TAM, Davis 1989)" is stronger than just "TAM."

Uploading Documents

• .txt files: Text extracted directly. Best for clean transcripts or plain text corpora.

• .docx files: Parsed by Mammoth.js. Formatting is stripped and plain text is extracted. Tables may not extract perfectly.

• .pdf files (text layer): Parsed by PDF.js. Generally accurate for born-digital PDFs.

• .pdf files (scanned): Processed by Tesseract.js OCR. Accuracy varies. Always verify OCR text manually.

TIP After uploading, check the Corpus Statistics card. If the word count seems too low, the PDF may be scanned and OCR may have struggled. Try a dedicated OCR tool first.

Adding Search Terms & Definitions — The Most Important Step

The quality of your findings is directly determined by the quality of your coding scheme.

• Use terms that actually appear in your documents. If documents use "technology adoption" but you code for "technology acceptance," you will miss matches.

• Add definitions to every term. This documents your analytical intent and helps you validate context excerpts later.

• Use Smart Codes as a starting point only. Review each suggestion before adding. Smart codes generate synonyms, not the question words themselves.

• Include plural/singular forms if needed. The Settings tab has options for this, but explicit terms are always more reliable.

• Aim for 6-20 codes for a focused analysis. Too few: sparse results. Too many: diluted findings.

• Code for potential contradictions too. Include terms that might challenge your hypothesis, not just support it.

CHAPTER 4

Core Analysis Modules

How the analysis engine works and how to read the outputs from each module.

The Analysis Engine

When you click Run Analysis, the engine: loads all document text; scans every document for each coded term using the configured match options; records each match position and extracts a context window; groups results by research question using explicit RQ links and relevance scoring; then triggers all downstream rendering: results dashboard, charts, interpretation, and RQ answers.

Match Configuration Options (Settings Tab)

Case-Sensitive	When enabled, "Technology" and "technology" are different. Disable for most content analysis.
Whole Word Match	Prevents "learn" from matching "learning." Enable to avoid false positives.
Partial Match	Searches within longer words. Use with caution; may produce false positives.
Ignore Punctuation	Removes punctuation before matching. Recommended for most analyses.
Plural/Singular Match	Matches simple plural/singular variations. "student" also matches "students."

Charts & Visualizations Dashboard

Bar Chart	Ranks all coded terms by total occurrence. Taller = more dominant concept.
Doughnut Chart	Proportional share of each term among all matches. Reveals relative weight of codes.
Document Comparison	Horizontal bars ranking documents by total matches. Identifies data-richest sources.
Code Type Frequency	Groups matches by classification type (keyword, phrase, theme, code, etc.).
Stacked Bar	Shows whether terms appear across many documents or are concentrated in one.
Word Cloud	Most frequent non-stop words. Coded terms highlighted in assigned colors.

TIP Every chart now includes a "What This Chart Means" findings summary that explains the visualization in plain academic language. Read these summaries before drawing conclusions.

CHAPTER 5

Research Question Answers & Findings (Tab 8A)

How the platform directly answers each research question regardless of data richness or scarcity.

The RQ Answers & Findings section directly addresses each research question individually using specific evidence from the analysis. Unlike the general interpretation engine, this section answers the question directly — with evidence when findings are rich, and with honest data-gap reporting when findings are limited. Every question gets an answer.

Findings Strength Ratings

Rating	Criteria	What the Answer Does
Rich Findings	15+ matches, 3+ terms with hits, excerpts available	Substantive academic answer with specific term evidence and paper-ready language
Moderate Findings	5-14 matches or 2+ terms with hits	Qualified answer noting evidence limitations and recommending next steps
Limited Findings	0-4 matches or no terms matched	Honest data-gap report explaining causes and advising on remediation

NOTE A "Limited Findings" rating is NOT a failure. In rigorous research, reporting a data gap is as important as reporting a finding. The platform will never manufacture evidence that is not in your documents.

How to Use the RQ Answers Section

- Read the "Direct Answer" panel. This is the core finding statement for the research question.
- Review the Evidence Table to see which terms contributed and their frequency.
- Click "View" next to any term to open the Context Review panel and read actual passages.
- Review supporting excerpts to confirm coded matches reflect genuine conceptual usage.
- Review the Theoretical Connection block to see how findings relate to your framework.
- Use the "Paper-Ready Language" summary as a starting point for your findings section — but always revise to your own voice.

Understanding the Evidence Table

The evidence table inside each RQ answer block shows: the term name with its color dot; total frequency count; percentage share of all RQ matches; and a View button that opens the Context Review panel to read every occurrence in its original document context. A second column shows document-level distribution when multiple documents are uploaded.

CHAPTER 6

Advanced Research Workspace

Manual coding, evidence matrix, theme development, contradiction review, and integrity checklist.

The Advanced Research section provides tools for researchers who need to go beyond automated frequency analysis and engage in deeper qualitative work. These tools are designed for building a more rigorous, defensible, and theoretically grounded analysis.

Manual Coding (14A)	Manually add coded excerpts from uploaded documents. Assign to a RQ, tag with codes, classify as supporting or contradicting, add sentiment tag, and annotate with memo.
Evidence Matrix (14B)	Cross-tabulation of all manually coded excerpts by code and RQ. Shows which themes are strongly, moderately, or weakly supported across evidence.
Theme Development (14C)	Build named theoretical themes by grouping codes, assigning strength levels, writing memos, and generating auto-interpretation paragraphs.
Contradiction Review (14D)	Scans coded data for negation language, opposing term pairs, and contradictory excerpts. Surfaces inconsistencies that must be addressed before reporting.
Save / Load Project (14E)	Saves the entire project state to a JSON file. Use regularly to avoid data loss.
Integrity Checklist (14F)	Runs a validity checklist: project completeness, document coverage, code quality, evidence balance, methodology alignment.

CHAPTER 7

Interpretation & Report Generation

Auto-generated interpretation, RQ alignment scoring, APA guide, and export options.

7-Section Academic Interpretation Engine (Tab 8)

#	Section	Content
1	Summary of Findings	Frequency summary: total matches, top/bottom terms, absent terms.
2	Connection to RQ	Links frequency pattern to stated primary research question.
3	Possible Themes	Groups coded terms by type and semantic similarity.
4	Evidence-Based Statement	Quantitative density: how often coded terms appear per word.
5	Caution Statement	Epistemological limitations of frequency-based analysis. Always include.
6	Researcher Recommendation	Specific, actionable next steps based on results.
7	Final Finding Statement	Complete, paper-ready paragraph for dissertation findings section.

Export Formats

CSV	Full frequency table. Compatible with Excel, SPSS, R.
JSON	Complete analysis results as structured data. For programmatic processing.
HTML Report	Full standalone report with project metadata, new setup fields, frequency table, interpretation, RQ answers, theoretical framework, scope, and excerpts. Print-ready.
RTF	Rich Text Format compatible with Microsoft Word. Paste directly into dissertation.
Project JSON	Entire platform state: documents, codes, themes, results, excerpts, audit trail.

CHAPTER 8

Admin Panel & Analytics

For platform administrators only. Password-protected.

The Admin Panel is accessible via the admin link in the platform footer. It is password-protected and intended for Rontechmedia and authorized platform administrators only.

NOTE Admin credentials are managed by Rontechmedia. Researchers and students do not need and should not attempt to access the admin panel.

Analytics Dashboard Features

- Total Visits (Human): Bot-filtered total visit count.
- Today / This Week: Rolling counts within last 24 hours and 7 days.
- New vs. Returning Visitors: Classified using a persistent browser-local visitor ID.
- Unique IPs: Count of distinct IP addresses in the session log.
- Bots Filtered: Count of bot/crawler visits detected and excluded.
- Geographic Distribution: Country-level breakdown with flags and counts via IP geolocation (ip-api.com).
- Top Referrers: Hostname breakdown showing traffic sources.
- Access Log: Per-visit entries with date/time, visitor type, location, IP, and referrer.
- Export CSV: Full access log as downloadable CSV for external analysis.

CHAPTER 9

Best Practices for Research Validity

How to get the most rigorous, defensible, and academically credible results.

Coding Scheme Design

- Start with your research questions. Every code must trace back to at least one RQ.
- Use terminology from your theoretical framework as primary codes.
- Add synonyms and related terms as separate codes with definitions.
- Ask a colleague to review your coding scheme for inter-rater reliability — even in single-researcher studies.
- Do not code only for confirmation. Include terms that might contradict your hypothesis.
- Document your reasoning in the definition field of each code.

Document Selection

- Select documents directly relevant to your RQs and within your stated scope.
- Ensure the corpus represents the population defined in your scope statement.
- Consider corpus balance: ten 200-page documents and one 2-page document will skew results heavily.
- Verify OCR quality for every scanned document before full analysis.

Interpreting Frequency Data Correctly

- Frequency does not equal importance. Always read context excerpts.
- A term can appear negatively, conditionally, or hypothetically. "Distance learning was NOT effective" contains both "distance learning" and "effective."
- Missing terms are data. Absent concepts are findings and must be reported.
- Zero matches do not mean a topic is absent — only that your exact term form is absent.
- The word cloud is exploratory, not analytical.

Common Errors to Avoid

IMPORTANT Avoiding these errors will significantly improve the validity of your findings.

- Treating auto-generated interpretation paragraphs as peer-reviewed findings without review.
- Running analysis with only 2-3 codes, producing results too thin for meaningful conclusions.
- Ignoring the Contradiction Review and Integrity Checklist before finalizing the report.
- Uploading out-of-scope documents without removing them before analysis.
- Failing to verify OCR text quality, leading to false negatives and inaccurate counts.
- Entering a theoretical framework name without explaining its application to the study.
- Using the platform for the first time immediately before a submission deadline.

CHAPTER 10

Frequently Asked Questions

Q: Is ResearchLensPRO free?

A: Yes. Completely free, no registration, no subscription, no payment.

Q: Are my documents secure?

A: Yes. All document processing happens in your browser. No file content is ever sent to any server.

Q: Can I use ResearchLensPRO for my dissertation?

A: Yes. It is designed specifically for dissertation and doctoral research. Disclose its use in your methods section.

Q: How do I cite ResearchLensPRO?

A: Rodas, R. A. (2025). ResearchLensPRO [Computer software]. Rontechmedia. https://researchlenspro.com

Q: What if my PDF will not extract text?

A: The PDF may be image-based. Tesseract.js OCR will attempt extraction automatically. For better results, use Adobe Acrobat or ABBYY to create a searchable PDF before uploading.

Q: How many documents can I upload?

A: No hard limit. Practical performance depends on your browser and device RAM. Large corpora may be slow.

Q: Can I save my work?

A: Yes. Use Save Project (Tab 14E) to download a JSON file. Reload with Load Project. Do this regularly.

Q: Why do some codes produce zero matches?

A: The term may not appear in that exact form. Try partial match, check alternate spellings, add synonyms, or verify OCR extraction.

Q: Can I analyze interview transcripts?

A: Yes. Upload as .txt or .docx. The Survey & Transcripts tab has transcript-specific tools.

Q: Is the interpretation output peer-reviewed?

A: No. All outputs are algorithmically generated starting points. Verify and validate before reporting.

Q: Does it support languages other than English?

A: Documents in any language can be processed for frequency matching. The interpretation engine and generated text are in English only.

Q: Can I use it for quantitative survey data?

A: Yes. Upload a .csv file in the Survey & Transcripts tab for response frequency and open-text analysis.

CHAPTER 11

Contact & Support

ResearchLensPRO is developed and maintained by Dr. Rony A. Rodas, Ph.D. under Rontechmedia. For support, feedback, feature requests, or bug reports, please use the following channels:

Platform URL	https://researchlenspro.com
Developer	Dr. Rony A. Rodas, Ph.D.
Organization	Rontechmedia
Affiliation	SUNY Farmingdale · LIEOC · Brightspace LMS / Distance Learning Coordinator
Bug Reports	Use the thumbs-down feedback button within the platform interface.
Citation	Rodas, R. A. (2025). ResearchLensPRO [Computer software]. Rontechmedia. https://researchlenspro.com

Thank you for using ResearchLensPRO. This platform exists to make rigorous academic content analysis accessible, free, and private for every researcher. Your feedback, citations, and continued use directly support ongoing development.