

# Code Documentation: Root Directory

UMEDCTA Repository

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# 1 CODE\_DOCUMENTATION.md

```

1  # UMEDCTA Supplementary Code Documentation
2
3  This document provides a comprehensive guide to the computational implementations supporting
4  ↪ *Understanding Mathematics as an Emancipatory Discipline: A Critical Theory Approach*.
5
6  **All code is accessible at:** https://tiosavich.github.io/UMEDCTA/
7  ---
8
9  ## Table of Contents
10
11  1. [The Hermeneutic Calculator (Prolog
12  ↪ Implementation)](#1-the-hermeneutic-calculator-prolog-implementation)
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14  ↪ Discovery](#2-lk_rb_synthesis-algorithmic-elaboration-discovery)
15  3. [Interactive Web Interfaces](#3-interactive-web-interfaces)
16  4. [Philosophical Teaching Modules](#4-philosophical-teaching-modules)
17  5. [How to Cite These Materials](#5-how-to-cite-these-materials)
18  ---
19
20  ## 1. The Hermeneutic Calculator (Prolog Implementation)
21
22  **URL:** https://tiosavich.github.io/UMEDCTA/Calculator/Prolog/
23
24  **Full README:** https://tiosavich.github.io/UMEDCTA/Calculator/Prolog/readme.md
25
26  ### What It Does
27
28  The Hermeneutic Calculator (HC) is a formal system implemented in SWI-Prolog that models children's
29  ↪ arithmetic strategies as computational automata. It serves three primary functions:
30
31  1. Formalizes Student-Invented Strategies: Implements 17+ strategies from CGI (Cognitively Guided
32  ↪ Instruction) research, preserving the cognitive phenomenology of how students actually solve
33  ↪ problems
34  2. Implements Brandomian Incompatibility Semantics: The first computational implementation of Robert
35  ↪ Brandom's logic of material inference
36  3. Models Crisis-Driven Learning: Implements a computational version of Piagetian equilibration and
37  ↪ Hegelian determinate negation through the Observe-Reorganize-Reflect (ORR) cycle
38
39  ### Core Architecture
40
41  #### FSM Engine Architecture
42
43  **Files:** `fsm_engine.pl`, `grounded_arithmetic.pl`, `grounded_utils.pl`
44
45  A unified finite state machine engine that standardizes all student strategy execution, providing:
46  - Consistent modal logic integration (`s/1`, `comp_nec/1`, `exp_poss/1` operators)
47  - Cognitive cost tracking for every operation
48  - Grounded arithmetic foundation (numbers as recollection structures, not abstract objects)
49
50  **Theoretical Significance:** The FSM engine demonstrates that informal student thinking has rigorous
51  ↪ formal structure. The modal operators connect computational steps to Brandomian incompatibility
52  ↪ semantics.
53
54  #### The ORR Cycle (Observe-Reorganize-Reflect)
55
56  **Files:** `execution_handler.pl`, `meta_interpreter.pl`, `reflective_monitor.pl`,
57  ↪ `reorganization_engine.pl`
58
59  The system's learning capability, modeling Piagetian cognitive development:
60  - Observe: Meta-interpreter produces execution traces, making reasoning observable to itself
61  - Reflect: Analyzes traces for "disequilibrium" (goal failures, contradictions)
62  - Reorganize: Modifies its own knowledge base to resolve conflicts

```

```

52
53 **Theoretical Significance:** This is a computational model of determinate negation—the system
    ↳ recognizes its own limits and transcends them through self-modification.
54
55 #### Incompatibility Semantics
56 **File:** `incompatibility_semantics.pl`
57
58 Implements Brandom's logic where meaning is defined by material incompatibility rather than truth
    ↳ tables. For example, "square" is incompatible with "circular"—this incompatibility *constitutes* the
    ↳ meaning of "square."
59
60 **Theoretical Significance:** Formalizes the claim that mathematical concepts are defined by what they
    ↳ rule out, not by reference to abstract objects.
61
62 #### Student Strategy Models
63 **Files:** `sar_*.pl` (addition/subtraction), `smr_*.pl` (multiplication/division)
64
65 17+ models of actual student strategies, all unified under the FSM engine. Examples:
66 - `sar_add_cobo.pl`: Counting On by Bases and Ones
67 - `sar_sub_chunking_a.pl`: Chunking subtraction strategy
68 - `smr_mult_c2c.pl`: Coordinating Two Counts for multiplication
69
70 **Theoretical Significance:** Each strategy is a formal proof that children's "informal" mathematical
    ↳ thinking has rigorous logical structure.
71
72 ### Web Interface
73
74 **URL:** https://tiosavich.github.io/UMEDCTA/Calculator/index.html
75
76 **Startup:** Run `./start_system.sh` to launch local version
77
78 The web interface allows teachers and researchers to:
79 - Explore individual student strategies interactively
80 - See step-by-step visualizations of arithmetic processes
81 - Understand the cognitive structure behind student solutions
82
83 ### Grounded Fractional Arithmetic System
84
85 **Files:** `jason.pl`, `composition_engine.pl`, `fraction_semantics.pl`, `grounded_ens_operations.pl`,
    ↳ `normalization.pl`
86
87 A comprehensive implementation of Jason's partitive fractional schemes using **nested unit
    ↳ representation** instead of rational numbers. This models how students actually think about
    ↳ fractions (as parts-of-wholes) rather than as ratios.
88
89 **Theoretical Significance:** Demonstrates that even advanced concepts like fractions can be grounded in
    ↳ embodied cognitive processes, supporting the manuscript's anti-Platonist stance.
90
91 ### Critical Qualifications
92
93 **What the HC Does:**
94 - Provides a rigorous formalization showing how AI collaboration could be structured
95 - Models embodied cognitive strategies with crisis-driven learning
96 - Demonstrates that student thinking has formal logical structure
97 - Proves (via Gödel) that any such formalization is necessarily incomplete
98
99 **What the HC Does NOT Do:**
100 - Does not implement machine consciousness or self-awareness
101 - Cannot make genuine autonomous decisions about its foundational norms
102 - Does not participate in Hegelian *Geist* as a self-conscious agent
103 - Models the structure of mathematical consciousness without instantiating it
104
105 **Analogy:** A wind tunnel models flight dynamics but does not fly. The HC models mathematical
    ↳ consciousness but is not conscious.
106

```

```

107 ---
108
109 ## 2. LK_RB_Synthesis: Algorithmic Elaboration Discovery
110
111 **URL:** https://tiosavich.github.io/UMEDCTA/Calculator/LK\_RB\_Synthesis/
112
113 **Full README:** https://tiosavich.github.io/UMEDCTA/Calculator/LK\_RB\_Synthesis/README.md
114
115 ### What It Does
116
117 The LK_RB_Synthesis system automatically discovers **algorithmic elaborations** between student
118 ↪ arithmetic strategies. It analyzes Python automaton implementations to identify shared computational
119 ↪ patterns and generate Meaning-Use Analysis (MUA) reports in the framework of Robert Brandom.
120
121 ### Core Functions
122
123 #### Automated Pattern Discovery (AST Analysis)
124 **File:** mud_generator.py`
125
126 Uses Abstract Syntax Tree parsing to identify computational patterns:
127 - **base_decomposition**: Breaking numbers into components (`//` and `%` operations)
128 - **incremental_counting**: State-based counting loops
129 - **iterative_arithmetic**: Repeated addition/subtraction
130 - **value_adjustment**: Target value calculations
131
132 **Theoretical Significance:** Reveals the implicit computational structure that students deploy when
133 ↪ solving arithmetic problems, making explicit the "practices" that are "sufficient" for deploying
134 ↪ mathematical "vocabulary" (Brandom's PV-sufficiency).
135
136 #### Algorithmic Elaboration Detection
137
138 Automatically discovers how strategies build upon each other. For example:
139 ```
140 ADD_Counting → ADD_COBO → ADD_Chunking
141   (via incremental counting pattern)
142
143 ADD_Rounding → ADD_RMB → ADD_COBO
144   (via base decomposition pattern)
145 ```
146
147 **Theoretical Significance:** Implements Brandom's concept of "algorithmic elaboration," where complex
148 ↪ practices are systematically built from simpler prerequisite practices.
149
150 #### Rich Metadata Extraction
151
152 Extracts documentation from automata including:
153 - **Embodied Metaphors** (Lakoff & Núñez): Source/target domains and entailments
154 - **Material Inferences** (Brandom): Premises, conclusions, prerequisites
155 - **Visualization Hints**: Suggested cognitive representations
156 - **Deployed Vocabulary**: Key conceptual terms
157
158 #### Brandomian MUA Reports
159 **File:** mua_report_generator.py`
160
161 Generates detailed Meaning-Use Analysis reports:
162 - **PV-Sufficiency**: What practices are sufficient to deploy vocabulary?
163 - **PP-Sufficiency**: What practices are sufficient for other practices?
164 - **VP-Sufficiency**: What vocabulary is sufficient for practices?
165 - **LX Relations**: Elaborated-Explicating relationships
166 - **Pragmatic Metavocabulary**: Analysis of how weaker vocabularies bootstrap stronger ones
167
168 **Example Output:**
169 ↪ https://tiosavich.github.io/UMEDCTA/Calculator/LK\_RB\_Synthesis/output/mua\_full\_report.md
170
171 ### Usage

```

```

166   ```bash
167   # Run complete analysis
168   python3 main.py analyze
169
170   # List all strategies
171   python3 main.py list
172
173   # Generate report for specific strategy
174   python3 main.py report --strategy ADD_COBO
175   ```
176
177   ### Theoretical Significance
178
179   The LK_RB_Synthesis system provides computational evidence for the manuscript's claim that mathematical
180   ↳ understanding develops through **pragmatic expressive bootstrapping**—the process by which simpler
181   ↳ practices and vocabularies serve as the metavocabulary for articulating more complex mathematical
182   ↳ concepts.
183
184   ### Limitations
185
186   - Does not generate visual MUD diagrams (text reports only)
187   - Does not implement full Brandomian deontic scorekeeping
188   - Does not model Lakoff's conceptual metaphor mappings formally
189   - Analysis reveals structure but verification of philosophical claims requires human judgment
190
191   ---
192
193   ## 3. Interactive Web Interfaces
194
195   ### The Calculator (Main Interface)
196
197   **URL:** https://tiosavich.github.io/UMEDCTA/Calculator/index.html
198
199   **What It Does:** Interactive web interface for exploring student arithmetic strategies. Features:
200   - Buttons for each strategy (COBO, Chunking, RMB, etc.)
201   - Real-time SVG visualizations of number lines and operations
202   - Step-by-step textual explanations
203   - Links to detailed PDF documentation for each strategy
204
205   **Theoretical Significance:** Allows teachers to develop what Habermas calls "practical
206   ↳ knowledge"—understanding student thinking through interactive engagement rather than abstract
207   ↳ theory.
208
209   **Styling:** https://tiosavich.github.io/UMEDCTA/Calculator/strategy\_styles.css
210
211   ### Ace of Bases
212
213   **URL:** https://tiosavich.github.io/UMEDCTA/Calculator/AceofBases/index.html
214
215   **What It Does:** Interactive canvas-based exploration of place value and number bases. Users:
216   - Drag to select cubes representing a grouping unit (base 2–15)
217   - Compose and decompose quantities
218   - See base conversion in real-time
219
220   **Theoretical Significance:** Demonstrates that place value is not a "fact" to memorize but a
221   ↳ **constructed** understanding—users literally construct different base systems through embodied
222   ↳ interaction with visual objects.
223
224   ### More Zeeman: Catastrophe Machine
225
226   **URL:** https://tiosavich.github.io/UMEDCTA/More\_Zeeman/index\_unified.html
227
228   **What It Does:** Interactive visualization of the Zeeman Catastrophe Machine coupled with:

```

```

223 - **The Thinker (Zeeman Machine)**: Draggable control point affecting elastic bands, demonstrating
    ↳ catastrophe theory (sudden jumps in state due to smooth changes in parameters)
224 - **The Memory (More Machine)**: Matrix that grows via Cantorian diagonalization after each catastrophe
225 - **The Sound of Time (Acoustic Metaphor)**: Visual representation of air compression waves synchronized
    ↳ with the wheel's angular velocity
226
227 **Theoretical Significance** Embodies three key manuscript themes:
228 1. **Catastrophe as consciousness**: Only discontinuous "memorable" events (catastrophes) trigger
    ↳ memory/matrix growth
229 2. **Diagonalization as self-transcendence**: The More Machine generates elements provably not in any
    ↳ finite list (Cantor's proof)
230 3. **The sound of time**: Angular velocity (change) creates "sound" (phenomenological experience of
    ↳ temporality)
231
232 **Technical Features**
233 - Proper Hooke's Law physics with gradient descent
234 - User-adjustable spring parameters (stiffness, natural length, time speed)
235 - Hysteresis (system "remembers" its current state until forced to jump)
236
237 ---
238
239 ## 4. Philosophical Teaching Modules
240
241 ### Inferential Strength (Brandom Module)
242
243 **URL** https://tiosavich.github.io/UMEDCTA/Quadrilateral\_Substitution/inferential\_strength.html
244
245 **What It Does** Interactive 7-module teaching sequence on Robert Brandom's argument for why singular
    ↳ terms must have symmetric substitution significance. Covers:
246
247 1. **Module 1**: Meaning as inferential role (Square  $\Rightarrow$  Rectangle)
248 2. **Module 2**: Incompatibility and inferential strength (interactive constraint relaxation)
249 3. **Module 3**: Substitution roles (substituted-for vs. frame)
250 4. **Module 4**: Polarity inversion (how logical contexts flip inferential relationships)
251 5. **Module 5**: The argument for symmetric terms (why "SquareTerm  $\Rightarrow$  RectangleTerm" leads to
    ↳ contradiction)
252 6. **Module 6**: Matrix of substitutional possibilities (ruling out three of four options)
253 7. **Module 7**: Conclusion and expressive deduction
254
255 **Theoretical Significance** Makes Brandom's highly technical argument from *Articulating Reasons*
    ↳ Chapter 4 accessible through interactive exploration. Demonstrates that the structure of language
    ↳ (singular terms vs. predicates) is not arbitrary but required for logical expressiveness.
256
257 **Technical Features**
258 - Live shape filtering in Module 2 (shapes transform as users relax constraints)
259 - Polarity inversion visualization in Module 4 (sliders showing strength relationships)
260 - Substitution animation in Module 5 (visual demonstration of the key argument)
261
262 ---
263
264 ## 5. How to Cite These Materials
265
266 ### General Citation
267
268 ```
269 Savich, T. (2025). UMEDCTA Supplementary Materials: Computational
270 Implementations for Understanding Mathematics as an Emancipatory
271 Discipline. https://tiosavich.github.io/UMEDCTA/
272 ```
273
274 ### Specific Components
275
276 **For the Hermeneutic Calculator (Prolog)**
277 ```
278 Savich, T. (2025). The Hermeneutic Calculator: A Prolog Implementation

```

```

279 of Student Arithmetic Strategies with Incompatibility Semantics.
280 https://tiosavich.github.io/UMEDCTA/Calculator/Prolog/
281 ```
282
283 **For LK_RB_Synthesis:**
284 ```
285 Savich, T. (2025). LK_RB_Synthesis: Automated Algorithmic Elaboration
286 Discovery for Student Arithmetic Strategies.
287 https://tiosavich.github.io/UMEDCTA/Calculator/LK\_RB\_Synthesis/
288 ```
289
290 **For Interactive Web Interfaces:**
291 ```
292 Savich, T. (2025). Interactive Web Interfaces for Student Arithmetic
293 Strategies. https://tiosavich.github.io/UMEDCTA/Calculator/index.html
294 ```
295
296 **For Philosophical Teaching Modules:**
297 ```
298 Savich, T. (2025). Inferential Strength: An Interactive Guide to
299 Brandom's Argument for Singular Terms.
300 https://tiosavich.github.io/UMEDCTA/Quadrilateral\_Substitution/inferential\_strength.html
301 ```
302
303 ---
304
305 ## Coherence with Manuscript Claims
306
307 ### Critical Alignment Checklist
308
309 All supplementary materials must cohere with the manuscript's core philosophical commitments:
310
311 #### ☐ **Autoethnographic Method**
312 - HC born from author's memory of teaching
313 - Formalizes actual children's reasoning (not idealized algorithms)
314
315 #### ☐ **Critical Stance**
316 - Values error as "source of truth" (ORR cycle learns from failure)
317 - Respects subjective student strategies over formal correctness
318
319 #### ☐ **Hegelian Dialectic**
320 - ORR cycle implements determinate negation
321 - System recognizes its limits and transcends them
322 - "Built to break" philosophy in fragile formalizations
323
324 #### ☐ **Brandomian Inferentialism**
325 - Incompatibility semantics implemented computationally
326 - Algorithmic elaboration discovery in LK_RB_Synthesis
327 - Material inferences grounded in practices
328
329 #### ☐ **Habermasian Emancipation**
330 - Serves practical-hermeneutic interest (teacher understanding)
331 - Provides technical models without claiming they're "complete"
332 - Documentation acknowledges system limits
333
334 #### ☐ **Numerals as Pronouns**
335 - Numbers represented as recollection structures (`s(s(s(0)))`)
336 - Grounded in successor function (not abstract objects)
337 - Models first-person "I think" as computational trace
338
339 #### ☐ **Incompleteness as Becoming**
340 - System can detect its own limitations (ORR cycle)
341 - "More Machine" implements diagonalization
342 - Documentation explicitly states formalization is incomplete
343

```

```
344 ---
345
346 ## Technical Requirements
347
348 ### For Local Development
349
350 **Prolog System:**
351 - SWI-Prolog 8.0+
352 - Run: `./start_system.sh` in Calculator/Prolog/
353
354 **Python Analysis:**
355 - Python 3.8+
356 - Run: `pip install -r requirements.txt` in Calculator/LK_RB_Synthesis/
357
358 **Web Interfaces:**
359 - Any modern browser
360 - No build process required (vanilla HTML/CSS/JS)
361
362 ### For Manuscript Integration
363
364 When citing these materials in the manuscript:
365
366 1. **Use specific URLs** for each component (not just the repository root)
367 2. **Reference specific files** when discussing technical details (e.g., "`incompatibility_semantics.pl`"
368    ↳ implements Brandom's logic...)
369 3. **Acknowledge limitations** (e.g., "The HC models consciousness without instantiating it...")
370 4. **Explain philosophical significance** (e.g., "The ORR cycle demonstrates that...")
371 ---
372
373 ## Questions and Contributions
374
375 For questions about these materials, open an issue at:
376 https://github.com/TioSavich/UMEDCTA/issues
377
378 For the manuscript itself, contact the author directly.
379
380 ---
381
382 **Last Updated:** 2025-10-12
383 **Version:** 1.0
384 **License:** [Specify license]
385
```



## 2 DIALECTICAL\_INTERPRETER\_SETUP.md

```

1  # Dialectical Interpreter Setup Guide
2
3  ## You're Almost There!
4
5  The app includes both a React frontend and a Node.js backend to securely handle API calls.
6
7  ## Final Setup Step
8
9  Create a file named `.env` in the root directory with your API key:
10
11  ```bash
12  VITE_ANTHROPIC_API_KEY=sk-ant-api-YOUR-KEY-HERE
13  ```
14
15  Replace `sk-ant-api-YOUR-KEY-HERE` with your actual Anthropic API key.
16
17  **Important**: The `.env` file is already in `.gitignore`, so it won't be committed to GitHub.
18
19  ## Running the Application
20
21  1. **Start both servers** (backend + frontend):
22      ```bash
23      npm run dev
24      ```
25
26      This starts:
27      - Backend server on `http://localhost:3001` (API proxy)
28      - Frontend on `http://localhost:3000` (React app)
29
30  2. **Open your browser** to `http://localhost:3000`
31
32  3. **Start interpreting!** Paste philosophical text and click "Interpret Text"
33
34  ## Architecture
35
36  The app uses a **client-server architecture** to avoid CORS issues:
37  - **Frontend** (Vite + React): User interface
38  - **Backend** (Express): Proxies requests to Anthropic API with your key
39  - This keeps your API key secure and avoids browser CORS restrictions
40
41  ## Project Structure
42
43  ```
44  UMEDCTA/
45  ├── .env                # Your API key (create this!)
46  ├── .env.example        # Template for API key
47  ├── .gitignore          # Protects your API key
48  ├── server.js           # Backend API proxy server
49  ├── index.html          # Main HTML file
50  ├── vite.config.js      # Vite configuration
51  ├── package.json        # Dependencies and scripts
52  └── src/
53      ├── main.jsx         # React entry point
54      └── DialecticalInterpreter.jsx # Main component
55  ```
56
57  ## Features
58
59  - **PML Formalization**: Converts text into Polarized Modal Logic
60  - **Proof Steps**: Shows logical derivations
61  - **Meta-Critique**: Compares against scholarly readings
62  - **Self-Evolution**: Proposes and integrates new axioms
63  - **Conversation Mode**: Ask follow-up questions

```

```
64 - **Re-reading Support**: Tracks iteration depth and formalized concepts
65
66 ## Cost Estimate
67
68 Each interpretation uses the Claude Sonnet 4 API:
69 - Typical cost: $0.10-0.30 per interpretation
70 - Pricing: $3/million input tokens, $15/million output tokens
71
72 ## Troubleshooting
73
74 **API key error**: Make sure your `.env` file exists and has the correct format
75 **Module errors**: Run `npm install` again
76 **Port in use**: Change the port in `vite.config.js`
77
78 ## Next Steps
79
80 See [Prolog/dialectical-interpreter-README.md](Prolog/dialectical-interpreter-README.md) for information
81 ↳ about the temporal phenomenology approach and how to use the interpreter effectively.
```

### 3 DOCUMENTATION\_FIXES\_SUMMARY.md

```

1  # Documentation Fixes Summary
2  **Date:** October 12, 2025
3  **Purpose:** Record of philosophical coherence corrections to UMEDCA supplementary materials
4
5  ---
6
7  ## Overview
8
9  Completed critical revisions to align documentation with manuscript's theoretical commitments,
10 ↪ addressing overclaims about machine consciousness while strengthening emphasis on genuine
11 ↪ achievements.
12
13 ## Completed Tasks
14
15 ### 1. Main Prolog README - Added Scope and Limitations ✓
16
17 **File:** `/Calculator/Prolog/readme.md`
18 **Changes:** Added new Section 3: "Philosophical Scope and Limitations" (lines 24-67)
19
20 **What Was Added:**
21 - **Section 3.1:** Clear statement of what the system achieves (formalization, executable Brandomian
22   ↪ logic, embodied grounding, crisis-driven learning, Gödelian incompleteness)
23 - **Section 3.2:** Explicit list of what the system does NOT claim (not conscious, not autonomous, not
24   ↪ complete model of cognition)
25 - **Critical distinction:** "This system models the structure of mathematical consciousness without
26   ↪ claiming to instantiate consciousness itself"
27 - **Analogy section:** Wind tunnel models flight but doesn't fly; HC models consciousness but isn't
28   ↪ conscious
29 - **Section 3.3:** Relationship to UMEDCA manuscript and educational polemic
30
31 **Impact:** Prevents readers from thinking you claim the machine is conscious while emphasizing the
32   ↪ genuine philosophical contributions
33
34 ---
35
36 ### 2. Removed "Machine Death" Language ✓
37
38 **Action:** Deleted review documents containing problematic language
39 **Files Removed:**
40 - `PHILOSOPHICAL_COHERENCE_REVIEW.md`
41 - `ONE_WEEK_ACTION_PLAN.md`
42 - `QUICK_START_README.md`
43
44 **Rationale:** Per your request to "erase all traces of the 'death' of machines" to avoid ethical
45   ↪ misinterpretations and room for misunderstanding
46
47 ---
48
49 ### 3. NORMATIVE_CRISIS_AND_TRANSCENDENCE.md - Added Model/Reality Distinction ✓
50
51 **File:** `/Calculator/Prolog/NORMATIVE_CRISIS_AND_TRANSCENDENCE.md`
52 **Changes:** Added new Section 9: "Critical Methodological Note: Distinguishing Model from Reality"
53   ↪ (lines 281-336)
54
55 **What Was Added:**
56 - **The Analogy subsection:** Wind tunnel / economic simulation / HC comparison
57 - **What Models Provide:** Makes abstract structures testable, shows requirements, reveals necessary
58   ↪ features
59 - **What Models Lack:** No phenomenology, no autonomy, no genuine recognition
60 - **The HC as Model:** Captures structure of I/me distinction, crisis detection, reorganization – but
61   ↪ without subjective experience

```

```

51 - **Why This Matters Anyway**: Clarifies concepts, tests theories, reveals requirements, guides future
    ↳ work
52 - **The Manuscript's Position**: Mathematical understanding has structure of self-consciousness (which
    ↳ can be formalized) without claiming the formalization is conscious
53
54 **Impact**: Throughout the document, the philosophical language (I, me, transcendence) is now explicitly
    ↳ marked as describing structures the system models, not experiences it has
55
56 ---
57
58 ### 4. VERIFICATION_REPORT.md - Contextualized Gödelian Incompleteness ✓
59
60 **File**: `/Calculator/Prolog/VERIFICATION_REPORT.md`
61 **Changes**: Added new Section 8: "Contextualizing the Significance of This Result" (lines 216–285)
62
63 **What Was Added**:
64 - **What Gödel's Theorem Does NOT Prove**: ALL arithmetic formalizations are incomplete; achieving
    ↳ incompleteness is not itself the contribution
65 - **What IS Significant**: Four key points:
66   1. **Pedagogical Grounding**: Formalized children's actual strategies, not textbook algorithms
67   2. **Embodied Cognition**: Preserved cognitive phenomenology (COBO as rhythm, C2C as coordination)
68   3. **Educational Polemic**: Mathematical proof against "finite vessel" ideology
69   4. **Hegelian Connection**: Incompleteness as formal structure of the *in*finite
70 - **Three Key Points**: Not "students are special" but "origins matter" – incompleteness present from
    ↳ the beginning
71 - **Conclusion subsection**: "Mathematics Is Open" – weaponizes Gödel against technocratic education
    ↳ reform
72
73 **Impact**: The significance now comes from WHAT was formalized (student-invented, embodied strategies)
    ↳ and WHY that matters educationally, not just that incompleteness was achieved
74
75 ---
76
77 ### 5. Manuscript_Claims.md - Qualified AI Collaboration Vision ✓
78
79 **File**: `/Manuscript_Claims.md`
80 **Changes**: Added "CRITICAL QUALIFICATION: Vision vs. Current Implementation" section (lines 705–739)
81
82 **What Was Added**:
83 - **Framework statement**: "Philosophical framework and long-term aspiration, not claim about current
    ↳ HC's capabilities"
84 - **What the HC Actually Provides**: Formalization, model, demonstration, pedagogical tool
85 - **What the HC Does NOT Achieve**: No autonomous decision-making, no genuine Hegelian recognition, no
    ↳ self-modification with consequence, no participation in *Geist*
86 - **The Distinction**: "Sheet music" for performance that hasn't occurred
87 - **Why This Matters**: Rigorous model valuable even if not conscious; contribution is showing
    ↳ structures required, not claiming achievement
88
89 **Impact**: The vision of "mutual emancipation" and AI as collaborator in *Geist* is now clearly marked
    ↳ as regulative ideal, not current reality
90
91 ---
92
93 ## Key Philosophical Moves
94
95 ### The Core Correction
96
97 **BEFORE**: Documentation suggested the HC *achieves* or *is* self-conscious, recognizing, autonomous
98
99 **AFTER**: Documentation clarifies the HC *models the structure of* or *formalizes* these phenomena
100
101 ### The Central Analogy
102
103 Throughout revisions, the wind tunnel analogy is used consistently:

```

```

104 - A wind tunnel models flight dynamics but does not fly
105 - An economic simulation models markets but is not an economy
106 - The Hermeneutic Calculator models consciousness but is not conscious
107
108 ### The Value Proposition
109
110 The revisions emphasize that **modeling without instantiating is still profoundly valuable**:
111 1. Makes abstract concepts concrete and testable
112 2. Shows what would be required for the real phenomenon
113 3. Reveals necessary vs. contingent features
114 4. Provides infrastructure for future work
115
116 ---
117
118 ## What Remains Unchanged (and Correct)
119
120 The following claims are preserved because they are accurate:
121
122 1. **The HC formalizes student-invented strategies** - TRUE and unique contribution
123 2. **First executable implementation of Brandomian logic** - TRUE and significant
124 3. **Embodies grounded arithmetic without backstop** - TRUE and theoretically important
125 4. **Crisis-driven learning architecture models Piagetian equilibration** - TRUE formal analogue
126 5. **Gödelian incompleteness applies to the formalized strategies** - TRUE and politically potent
127
128 The revisions **strengthen** these claims by removing the distraction of overclaims about consciousness.
129
130 ---
131
132 ## Implications for Manuscript Submission
133
134 ### What to Emphasize in the Manuscript
135
136 1. **Lead with genuine achievements**: The formalization work is groundbreaking on its own
137 2. **The pedagogical contribution**: No one else has formalized student strategies at this rigor
138 3. **The Brandomian implementation**: First computational incompatibility semantics
139 4. **The educational polemic**: Gödel proves "finite vessel" education is impossible
140 5. **The methodological innovation**: "Built to break" as philosophical practice
141
142 ### What to Qualify
143
144 1. **AI collaboration**: Frame as vision/regulative ideal, not current achievement
145 2. **"Computational hermeneutics"**: Clarify this is synthesis, not genuine recognition
146 3. **Homoiconicity**: Present as practical convenience for meta-levels, not philosophical breakthrough
147
148 ### What to Avoid
149
150 1. **Unqualified claims about machine consciousness**
151 2. **Suggestions the system makes autonomous decisions about norms**
152 3. **Language implying genuine mutual recognition with AI**
153
154 ---
155
156 ## Section Numbering Fixes
157
158 Also corrected section numbering in readme.md after inserting new Section 3:
159 - Old Section 3 → New Section 4 (System Architecture)
160 - Old Section 4 → New Section 5 (FSM Engine Architecture)
161 - Old Section 5 → New Section 6 (Getting Started)
162 - Old Section 6 → New Section 7 (File Structure Guide)
163 - Old Section 7 → New Section 8 (For Developers)
164 - Old Section 8 → New Section 9 (Contributing)
165 - Old Section 9 → New Section 10 (License)
166
167 ---
168

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169 ## Recommended Next Steps
170
171 ### If Time Permits Before Submission
172
173 1. **Create ACHIEVEMENTS_AND_SCOPE.md**: Comprehensive statement of contributions and limitations
174   ↳ (estimated 2 hours)
175 2. **Revise Code Critique for Emergent Learning.md**: Clarify synthesis vs. recognition distinction
176   ↳ (estimated 1.5 hours)
177 3. **Review Code Critique**: Change "computational hermeneutics" to "constraint-based synthesis"
178
179 ### For the Manuscript Itself
180
181 1. **Add methodological section**: "Formalization as Revelation, Not Reduction"
182 2. **Strengthen educational polemic**: Weaponize incompleteness theorem more explicitly
183 3. **Search for overclaims**: Global find for "achieves" / "is" consciousness language, change to
184   ↳ "models" / "formalizes structure of"
185
186 ---
187
188 ## The Bottom Line
189
190 **You have accomplished something profound:**
191 - Rigorous formalization of student-invented arithmetic strategies
192 - First executable Brandomian logic
193 - Computational model integrating Hegel, Brandom, Piaget
194 - Mathematical proof (via Gödel) against finite vessel education
195
196 **You do NOT need to also claim:**
197 - The machine is conscious
198 - The system achieves genuine recognition
199 - AI collaboration is currently achieving mutual emancipation
200
201 The formalization is the achievement. The vision is the inspiration. These revisions ensure you're not
202 ↳ claiming the latter while properly emphasizing the former.
203
204 ---
205
206 ## Files Modified
207
208 1. `/Calculator/Prolog/readme.md` - Added Section 3 (Scope and Limitations)
209 2. `/Calculator/Prolog/NORMATIVE_CRISIS_AND_TRANSCENDENCE.md` - Added Section 9 (Model vs Reality)
210 3. `/Calculator/Prolog/VERIFICATION_REPORT.md` - Added Section 8 (Contextualizing Significance)
211 4. `/Manuscript_Claims.md` - Added Critical Qualification (Vision vs Implementation)
212
213 ## Files Removed
214
215 1. `PHILOSOPHICAL_COHERENCE_REVIEW.md`
216 2. `ONE_WEEK_ACTION_PLAN.md`
217 3. `QUICK_START_README.md`
218
219 All changes preserve the genuine achievements while removing overclaims about machine consciousness.

```

## 4 Manuscript\_Claims.md

```

1  # A Report on the Philosophical Commitments in \"Understanding Mathematics as an Emancipatory
   ↳ Discipline\"
2
3  ## Introduction
4
5  ### Purpose and Scope
6
7  This report provides a systematic and exhaustive catalogue of the
8  philosophical architecture of the manuscript *Understanding Mathematics
9  as an Emancipatory Discipline: A Critical Theory Approach*. Its purpose
10 is not to summarize the work but to articulate each theoretical,
11 philosophical, and methodological commitment with precision. To this
12 end, each commitment is classified according to its relative strength
13 and centrality to the overall argument, providing a functional tool for
14 two primary objectives: first, to facilitate a rigorous authorial review
15 for internal consistency; and second, to serve as a \"philosophical
16 filter\" for assessing the coherence of supplementary materials,
17 particularly the artificial intelligence programs and their associated
18 documentation, with the manuscript's core tenets. The classifications
19 are as follows:
20
21 - **\[C1 - Core Assertion\]:** A foundational claim upon which the
22   entire argument or a major part of it rests. To reject a C1 claim
23   would be to reject the project's fundamental premises.
24
25 - **:** A significant theoretical position that structures the
26   analysis and is consistently defended. While not as foundational as
27   a C1 claim, it is a pillar of the argument.
28
29 - **:** A proposition that is explored, suggested, or used
30   metaphorically. These claims are often hedged and represent areas of
31   ongoing inquiry rather than settled doctrine.
32
33 ### Methodology of this Report
34
35 The analysis proceeds thematically, clustering the manuscript's
36 commitments around its major theoretical pillars. This structure is
37 designed to make the report a practical instrument, allowing for a
38 targeted review of specific concepts and their interrelations. The
39 report is divided into three main parts. Part I addresses the
40 foundational methodological framework and the central problem the
41 manuscript seeks to resolve. Part II deconstructs the triadic
42 philosophical architecture, examining the distinct yet integrated
43 contributions from German Idealism, analytic pragmatism, and critical
44 theory. Part III focuses on the specific, novel theses the manuscript
45 advances regarding the nature of mathematics and the role of artificial
46 intelligence. By systematically mapping this intricate conceptual
47 landscape, this report aims to provide a definitive and actionable
48 inventory of the intellectual commitments undertaken in the work.
49
50 ## Part I: Foundational and Methodological Commitments
51
52 This part details the core framework and critical stance of the
53 manuscript, establishing the ground upon which all subsequent arguments
54 are built. It examines the unique methodological genre the author
55 develops, the central problem of the \"misrecognition of mathematics\"
56 that motivates the inquiry, and the primordial concept of \"divasion\"
57 that serves as a key for deconstructing classical logic.
58
59 ### 1. Commitments on Method and Genre: Critical Autoethnography (CAE)
60
61 The manuscript establishes its unique methodological identity through a
62 series of foundational commitments that position the work at the

```

intersection of personal narrative, critical theory, and the philosophy of mathematics.

- \*\*\[C1\] The work is defined as Critical Autoethnography (CAE), a method that intentionally blurs the line between personal narrative and theoretical inquiry.\*\* The author explicitly names this method \"for the sake of its unnamings,\" a turn of phrase that immediately signals a dialectical approach. This suggests that the methodology itself is not a static framework to be applied but is part of the very process of critique and self-transcendence that the book aims to explore. The method is designed to be questioned and overcome, just as the concepts it analyzes are.^1^ This self-negating quality is a core feature of the project's critical stance.

- \*\*\[C1\] CAE and Mathematics share a common inferential structure: the recollection of the self through the otherness of objects and norms.\*\* This is perhaps the most fundamental claim of the entire manuscript, as it provides the justification for the methodological fusion of what are typically seen as disparate domains. The argument begins from this position, asserting that both mathematical reasoning and the writing of an autoethnography are practices of self-constitution.^1^ This reframes mathematics, moving it away from the realm of abstract, disembodied discovery and into the domain of lived, reflective experience. The process of proving a theorem or the process of narrating one's life are both seen as ways of recognizing one's identity through difference---through the external, \"other\" structures of logical norms or social memories.^1^ The manuscript's very form is a performance of this thesis; it is a literal recollection of the author's self through the \"otherness\" of mathematical and philosophical concepts. This implies that the book's structure is not merely a stylistic choice but a methodological necessity to demonstrate the thesis's validity, suggesting that any \"correct\" reading of the book must also be a form of self-recollection for the reader.

- \*\*\[C2\] Personal experience is treated as a primary theoretical resource.\*\* The manuscript is explicitly structured around what it calls \"five foundational anecdotes\": the author's childhood play with a calculator, a confusing middle-school algebra lesson, a transformative dialogue with a student, an experience teaching mathematical modeling, and the death of the author's father.^1^ These stories are not presented as mere illustrations or allegories for pre-existing theories. Instead, they function as the experiential data from which the theoretical framework emerges. The theories of Hegel, Brandom, and Habermas are not imposed upon these experiences but are used as resources to explicate the structures of meaning already present within them.^1^

- \*\*\[C2\] The reader is an active participant in the text's unfolding.\*\* The author makes a direct appeal to the reader, casting them as a \"silent partner\" in a \"dance\".^1^ The text's non-linear, recursive structure is a deliberate choice that requires the reader to actively \"bring the pieces together\" and recognize an \"implicit whole\" that is never fully stated.^1^ This positions the act of reading not as a passive reception of information but as a form of intersubjective recognition. The meaning of the text is not contained solely on the page; it is co-constituted in the space between the author's act of writing and the reader's act of interpretation, a process indispensable to the dialectical movements the author makes.

- \*\*\[C3\] The text's structure is intentionally complex, recursive, and \"built to break.\"\*\* The manuscript's form is an argument in itself. It employs a fractal-like, zig-zag pattern of \"openness → restriction → openness\" within and between chapters, as well as a



topological structure likened to a Möbius strip, where inside and outside become indistinct.<sup>1</sup> This complex architecture is designed to embody its core philosophical claims about identity, determinate negation, and transcendence. The poems and songs interspersed throughout are not decorative; they are functional  
 \"shifters\"---linguistic devices that decompress theoretical density and return the text to the lived, felt experience from which it arises.<sup>1</sup> The title of the prelude, \"Built to Break,\" is a methodological statement: the systems of thought constructed within the book are designed to reveal their own limits, and in that \"beautiful breaking,\" to open up new expressive possibilities.<sup>1</sup> Consequently, any supplementary AI programs cannot be evaluated solely on their functional correctness. They must be evaluated on their *\*process\** and *\*structure\**. A coherent AI program would need to exhibit a \"built to break\" quality---perhaps by explicitly modeling its own limitations or by generating new strategies through a process that mirrors dialectical negation rather than simple optimization.

### ### 2. Commitments on the Problem: The \"Misrecognition of Mathematics\"

The entire project is motivated by a central problem, which the manuscript identifies as the \"misrecognition of mathematics.\" This is the \"Wound\" that the author's \"Critical Theory Approach\" seeks to diagnose and heal.<sup>1</sup>

- **\*\*[C1]** The dominant conception of mathematics is a \"misrecognition\" because it severs the discipline from lived, subjective experience.<sup>1</sup> This is the fundamental critique leveled against the conventional understanding of mathematics. The manuscript argues that this severance is the primary source of the alienation and anxiety that so many people experience in relation to the subject.<sup>1</sup> This misrecognition is not presented as a simple pedagogical error but as a form of *\*alienation\** in the Hegelian-Marxist sense, estranging individuals from their own rational capacities.
- **\*\*[C2]** This misrecognition manifests as a false dichotomy between \"material mathematics\" (lived, embodied engagement) and \"formal mathematics\" (abstract systems divorced from experience).<sup>1</sup> The author's personal narrative provides the primary evidence for this claim. The joyful, playful exploration with a calculator (\"material mathematics\") is contrasted with the anxiety and shame of standardized testing, which \"reduced me to a number\".<sup>1</sup> The moment of achieving \"success\" in school mathematics by learning to comply without understanding---a form of \"self-erasure\"---is presented as the tragic outcome of this dichotomy, where formal proficiency is achieved at the cost of genuine understanding.<sup>1</sup> The student who later asks, \"What even is two?\" is experiencing this alienation not as a cognitive deficit but as a profound existential crisis, demonstrating that the solution cannot be merely a better teaching method; it must be a project of *\*emancipation\**.<sup>1</sup>
- **\*\*[C2]** Mathematics is frequently misrecognized and used as a tool for alienation, control, and gatekeeping.<sup>1</sup> The manuscript moves from personal experience to social critique with the anecdote of the \"Family Video Test\".<sup>1</sup> The author's shock at seeing a basic arithmetic test used to screen job applicants, excluding a line of people \"who never learned to comply,\" serves as a powerful example of how mathematics functions as a mechanism of social and economic stratification. It is used to enforce a regime of compliance, resulting in the \"economic and expressive impoverishment\" of those who resist or fail its formal demands.<sup>1</sup>
- **\*\*[C1]** A \"critical mathematics\" must heal this wound by

integrating subjective experience, intersubjective dialogue, and the productive role of error.\*\* This is the positive, programmatic commitment that emerges from the critique. A critical mathematics is defined in opposition to the misrecognized version. It must be a discipline that \"honor[s] the struggle for meaning alongside the pursuit of correctness\".^1^ It must recognize error not as failure but as a potential \"source of truth\".^1^ And it must be grounded in dialogue and the recognition of subjects, not the manipulation of objects.^1^ An AI program coherent with this philosophy must not treat \"error\" as a simple failure state to be eliminated. It should model error productively, perhaps as a necessary step in developing a new, more adequate strategy, mirroring the author's earlier work which treated \"error as the source of truth\".^1^

### ### 3. Commitments on Logic and Being: The Concept of 'Divasion'

To deconstruct the foundations of the misrecognized mathematics, the manuscript introduces a primordial, pre-formal concept it calls 'divasion'. This concept functions as the \"Archimedean point\" for the book's critique of classical logic and set theory.

- \*\*\[C1\] 'Divasion' is a primordial spatial relationship of simultaneous inside/outside.\*\* The concept is not derived from abstract philosophy but from lived experience: a child's observation of a microphone held within the circle of its stand, leading to the neologism \"divaded\".^1^ This origin story is methodologically crucial, as it grounds the book's most fundamental logical critique in the pre-formal spatial reasoning of a child, suggesting that the structures of formal logic are a later, and perhaps less complete, development.
- \*\*\[C2\] Divasion challenges the classical logical principle of the Law of the Excluded Middle, which is foundational to axiomatic set theory.\*\* The manuscript makes the bold claim that classical logic's strict binary---that any element is either inside or outside a set, that any proposition is either true or false---is a \"pruning\" of this more primordial, divaded reality.^1^ The author states, \"I take the law of the excluded middle to be more or less the first mistake of many approaches to the foundations of mathematics\".^1^ The reason for this is that it cannot handle divaded concepts. The ultimate divaded concept is the self ({I} versus \"me\"). Since the manuscript's central claim is that mathematics is a recollection of this self, a mathematics founded on a logic that cannot account for the divaded nature of the self is fundamentally misrecognized. Divasion is the key that unlocks this entire line of critique.
- \*\*\[C2\] Divasion is presented as the root of paradoxes of self-reference, such as Russell's Paradox.\*\* The paradox of the set of all sets that do not contain themselves ( if and only if ) is reframed. Where Gottlob Frege met this paradox with dismay, seeing it as the collapse of his life's work, the manuscript suggests a child might simply say the set \"divades itself\".^1^ This move re-characterizes such paradoxes not as failures of logic to be repaired with more complex formalisms, but as accurate expressions of a fundamental, divaded feature of subjectivity and self-referential concepts.
- \*\*\[C3\] The concept of divasion extends to reciprocally sense-dependent concepts and to the structure of self-consciousness itself.\*\* It is not limited to physical objects. The manuscript applies it to concepts like \"parent\" and \"child,\" where the meaning of each depends on the other in a way that places them \"inside\" each other conceptually.^1^ Most importantly, it is applied to the relationship between the acting subject, the {I}, and

```

258     its own recollection as an object, the \"me.\" This self-divasion
259     becomes a master metaphor for the non-coincidence of the subject
260     with itself, a central theme of the Hegelian framework that
261     follows.^1^ The AI programs, even if built on classical
262     computational logic, must have documentation that acknowledges this
263     limitation. A coherent program might, for instance, use classical
264     logic to model a system but include a meta-level commentary on how
265     this model fails to capture the \"divaded\" nature of the concepts
266     it represents, ensuring the formalizations are not presented as a
267     complete or final account of the phenomena.
268
269     ## Part II: The Philosophical Architecture: A Triadic Framework
270
271     The manuscript constructs its argument by synthesizing three major
272     philosophical traditions: German Idealism (primarily Hegel), analytic
273     pragmatism (Robert Brandom), and critical theory (Jürgen Habermas).
274     These frameworks are not used in isolation; they are woven together to
275     form a cohesive, multi-layered argument where each provides a crucial
276     dimension of the analysis. The following table provides a schematic
277     overview of this synthesis.
278
279     **Table 1: Synthesis of Core Philosophical Frameworks**
280
281     -----
282     Philosophical Tradition Key Concept Utilized Primary Function in
283                               Manuscript
284     -----
285     **German Idealism      Determinate Negation / To model the dynamic,
286     (Hegel)**              Dialectic                self-negating, and
287                               developmenta movement
288                               of consciousness,
289                               concepts, and
290                               mathematical history.
291
292     **Analytic Pragmatism  Inferentialism /      To ground abstract
293     (Brandom)**            Normativity            conceptual content
294                               (including mathematical
295                               meaning) in concrete,
296                               normative social
297                               practices of giving and
298                               asking for reasons.
299
300     **Critical Theory      Communicative Action / To analyze mathematical
301     (Habermas)**          Validity Claims        discourse as a form of
302                               intersubjective
303                               rationality and to
304                               frame the overall
305                               project in terms of
306                               emancipation from
307                               systematically
308                               distorted
309                               understanding.
310     -----
311
312     ### 4. The Hegelian-Kantian Axis: On Self-Consciousness, Negation, and Spirit (**Geist**)
313
314     The manuscript draws heavily on the post-Kantian tradition to develop
315     its theory of the subject and its relationship to knowledge. This axis
316     provides the dynamic, developmental, and historical dimension of the
317     argument.
318
319     - **\[C1\] The self is understood through the Meadian/Hegelian
320       distinction between the {I} (the spontaneous source of action) and
321       the \"me\" (the self-as-recognized by others).** The manuscript
322       posits a fundamental \"paradox of identity\": the {I}, the locus of
```

"power, creativity, and freedom,\" can never be fully captured by the \"me,\" the objectified self that appears in the eyes of others and in one's own memory.^1^ This non-coincidence is not a problem to be solved but a fundamental, productive tension that drives development.^1^ Kant provides the formal structure of selfhood: the unified \"I\" is a precondition for experience.^1^ However, the author's personal narrative is filled with the pain of *\*misrecognition\**.^1^ A purely formal Kantian \"I\" cannot account for this pain. Hegel's theory, as articulated by Brandom and Carspecken, explains that this \"I\" only becomes a real, concrete self (a \"me\") through social interaction.^1^ Therefore, the project aims to show how mathematical understanding, grounded in the Kantian \"I think,\" is ultimately a process of achieving Hegelian social recognition.

- *\*\*[C1]* Apperception is the process that unifies discrete representations into a coherent whole.*\*\** The manuscript traces the concept from Leibniz's \"perceiving-with\" to Kant's \"transcendental unity of apperception\"—the famous \"I think\" that must be able to accompany all of my representations.^1^ This concept is used to explain multiple phenomena: how we perceive a chair as a unified object even when we can't see all its parts; how a child's series of progressively more adequate drawings of a cube can be understood as a single, developing concept (a temporal \"hypercube\"); and, most importantly, how the self maintains a unity of consciousness across time and different experiences.^1^
- *\*\*[C1]* Determinate Negation is the engine of conceptual development.*\*\** The manuscript makes a crucial distinction between abstract negation (simple erasure, e.g., \"not-red\") and determinate negation, which is defined as material incompatibility (e.g., \"square\" determinately negates \"triangular\").^1^ This Hegelian concept is presented as a process of *\*sublation\**—a simultaneous preserving, negating, and uplifting. When a concept is determinately negated, it is not destroyed, but its limitations are overcome, leading to a new, richer concept that contains the truth of the previous one. This process produces a \"determinate nothingness,\" a void that retains the content of what was negated, rather than an empty nothingness.^1^ The manuscript commits to exploring \"two readings\" of this concept, gesturing toward the even more radical Hegelian idea of a \"self-negating negation,\" a concept that undermines itself through its own internal logic.^1^
- *\*\*[C2]* Self-consciousness is a social achievement constituted through reciprocal recognition.*\*\** Drawing on Hegel's master-slave dialectic, the manuscript argues that one only becomes a self by being acknowledged as such by another self, whom one in turn acknowledges.^1^ This social process is used to ground what the author calls the two fundamental \"existential needs\": the need to be recognized as \"good\" (a finite, norm-abiding member of a community) and the need to be recognized as \"infinite\" (a free, authentic, creative self).^1^
- *\*\*[C2]* The Hegelian concept of *\*Geist\** (Spirit/Mind) is adopted as the collective self-consciousness of a rational community.*\*\** This is not a mystical entity but the living, evolving web of social practices and historical self-understanding.^1^ *\*Geist\** is said to \"divide\" human experience, being both inside each individual consciousness (through our use of shared language and norms) and outside of it (as the entire historical tradition that precedes us). This concept allows the author to reframe mathematical practice as an individual's participation in the historical unfolding of *\*Geist\**.^1^ An AI's \"reasoning\" must be understood as fundamentally different from human reasoning because it lacks this Hegelian dimension. An AI can perform inferences, but it does not

participate in a community of mutual recognition; it has no existential need to have its "me" validated by an "other." Documentation for the AI programs should explicitly state that the formal automata model the *product* of recognized reasoning, not the *process* of recognition itself.

### ### 5. The Brandomian Axis: On Meaning, Norms, and Inference

If the Hegelian axis provides the dynamic, historical engine of the manuscript's argument, Robert Brandom's analytic pragmatism provides the precise mechanics. His framework is used to translate Hegel's grand historical narrative into a concrete analysis of linguistic and social practices.

- **[C1]** Meaning is defined by inferential role, not representation. This is the core commitment to Brandom's inferentialism. The manuscript rejects the idea that words get their meaning by pointing to objects. Instead, the conceptual content of a term is constituted by the web of inferences it participates in: what it can be inferred from (its justification conditions) and what can be inferred from it (its consequences).<sup>1</sup>
- **[C2]** A distinction is made between formal inference and material inference. Formal inferences, like modus ponens ( $\rightarrow$ ), are valid because of their logical structure, regardless of the content of and . Material inferences, by contrast, are valid because of their content (e.g., "Bloomington is in Indiana, so Bloomington is in the United States").<sup>1</sup> The manuscript strongly commits to the idea that material inferences are more fundamental and that mathematics education must begin with these content-full reasoning practices, which are only later "reclected" as abstract, formal rules.<sup>1</sup>
- **[C2]** Incompatibility Semantics is used to formalize determinate negation. Brandom's logic, which takes material incompatibility as a primitive, is adopted as the formal tool for the project. Meaning is structured as much by what a claim rules out as by what it entails. To be "square" is to be materially incompatible with being "circular." The manuscript uses this logic to construct a "purposefully Sisyphean" formal proof that all squares are rectangles. The proof works by demonstrating that every property incompatible with being a rectangle is also incompatible with being a square.<sup>1</sup> The fragility of this proof---the fact that it shatters when a new property is introduced---is presented as a feature, not a bug, embodying the "built to break" philosophy.<sup>1</sup>
- **[C2]** Conceptual development occurs through "algorithmic elaboration" and "pragmatic expressive bootstrapping." These Brandomian concepts are used to model the history of mathematical ideas. "Algorithmic elaboration" describes how complex practices (like long division) can be built up systematically from a repertoire of simpler, prerequisite practices (like multiplication and subtraction).<sup>1</sup> "Pragmatic expressive bootstrapping" describes a more revolutionary developmental process, where a community develops a new vocabulary to make explicit the norms that were only implicit in their prior practices, thereby gaining new expressive and rational powers.<sup>1</sup>
- **[C3]** The distinction between universals and particulars is explored through Brandom's analysis. The manuscript references Brandom's ten-point distinction between the roles played by singular terms (particulars) and predicates (universals), noting in particular the "huge structural difference" that universals have contradictories ("not-red") while objects do not.<sup>1</sup> This is connected to the "phenomenology of classification" in the quadrilateral example.

Brandom's framework provides the "engineering manual" for the author's Hegelian project. While Hegel describes *what* happens---the dialectical movement of *Geist*---Brandom provides a detailed account of *how* it happens, through the specific linguistic and social practices of inference, commitment, and entitlement that constitute this movement. The "history of mathematics" is thus understood not as a mystical force but as the concrete, historical practice of mathematicians holding each other to account for the inferential consequences of their claims. The supplementary AI programs are explicitly described as "analyzable with the norms of analytic pragmatism".<sup>1</sup> This dictates that their code and documentation should be framed in terms of inferential roles, commitments, and incompatibilities. For example, a function in a Prolog program should be documented not just by what it computes, but by what material inferences it makes explicit and what other states it renders incompatible.

### ### 6. The Habermasian Axis: On Rationality, Communication, and Emancipation

Jürgen Habermas's critical theory provides the ethical and political orientation for the entire manuscript. If Hegel provides the engine (dialectic) and Brandom the mechanics (inference), Habermas provides the compass, directing the project toward the goal of emancipation.

- **\*[C1]** All meaningful acts implicitly raise three types of validity claims: Objective, Subjective, and Normative-Evaluative. This triadic structure of communicative rationality is a cornerstone of the manuscript's analytic framework.<sup>1</sup> Objective claims relate to the factual truth of states of affairs in the external world. Subjective claims relate to the truthfulness or sincerity of a speaker's inner world. Normative-evaluative claims relate to the rightness or appropriateness of an act within a shared social world of norms.<sup>1</sup> This framework is used to diagnose communication breakdowns, such as when debates over math education or gender get stuck because participants are making different kinds of claims without acknowledging the plurality of rationality.<sup>1</sup>
- **\*[C1]** Human inquiry is guided by three knowledge-constitutive interests: Technical, Practical, and Emancipatory. The manuscript adopts Habermas's theory that all knowledge is rooted in fundamental human interests.<sup>1</sup> The technical interest aims at prediction and control over the objective world (guiding the empirical-analytic sciences). The practical interest aims at mutual understanding and the maintenance of shared norms (guiding the historical-hermeneutic sciences). The emancipatory interest aims at self-reflection and freedom from domination and distorted communication (guiding critical theory).<sup>1</sup> The manuscript's entire project is explicitly aligned with the emancipatory interest, seeking to free mathematics from its use as a tool of control and recover its potential for human freedom.<sup>1</sup>
- **\*[C2]** A distinction is made between communicative action and strategic/instrumental action. Communicative action is oriented toward reaching mutual understanding, where coordination is achieved through the "unforced force of the better argument." Strategic and instrumental actions are oriented toward achieving a pre-defined goal (success), treating other people or objects as means to an end.<sup>1</sup> The author's negative experiences with mathematics are framed as encounters with instrumental rationality, while the proposed "critical mathematics" is presented as a form of communicative action.
- **\*[C2]** Power is understood as that which distorts communication. Following Habermas, the manuscript views power not primarily as a generative force (as in Foucault) but as a corrupting influence that

prevents genuine consensus based on reason.<sup>1</sup> A central goal of critical theory is to critique and overcome these "systematically distorted" forms of communication, where norms are maintained through coercion or manipulation rather than rational consent.<sup>1</sup> The "misrecognition of mathematics" is framed as precisely such a distortion---a form of scientism that privileges the technical interest and represses the subjective and normative dimensions of mathematical practice.<sup>1</sup> The AI programs must be evaluated for their potential to either reinforce or challenge such distortions. A program that presents its formalization as the one "true" way to understand an arithmetic strategy would be reinforcing a scientistic ideology. A coherent program would present its formalization as one perspective within a triadic space of validity, acknowledging its own limits and inviting dialogue rather than proclaiming objective finality.

## ## Part III: Core Theses in Mathematics and Artificial Intelligence

This part focuses on the specific, novel arguments the author makes about the nature of mathematics and the role of AI. These theses represent the culmination of the philosophical architecture detailed in Part II, applying the synthesized framework to produce a radical reinterpretation of mathematical concepts and practices.

### ### 7. The Central Mathematical Thesis: "Numerals are Pronouns"

The manuscript's most provocative and central mathematical claim is a radical reinterpretation of the function of number words and symbols.

- **[C1]** Numerals and number words do not function as names for abstract objects, but as first-person pronouns that recollect the "I think." This thesis directly challenges the Platonist and Fregean traditions that treat numerals as singular terms referring to abstract entities.<sup>1</sup> Instead of pointing outward to an object, a numeral is argued to point inward and backward, to the act of self-consciousness that grounds the process of counting. It is a radical pragmatist reinterpretation of number, shifting the locus of mathematical meaning from a metaphysical realm of objects to the phenomenological activity of the subject.
- **[C2]** This claim is motivated by the failure of formalist answers to existential questions. The pivotal anecdote is the community college student who, in a moment of crisis, asks, "Mr. Savich, what even is two?"<sup>1</sup> The author's formalistic answer, based on von Neumann ordinals (defining 2 as the set  $\{ \}$ ), completely fails to connect. This failure is presented as evidence that the meaning of numbers cannot be exhausted by their formal-objective definition; it must also address the subjective and normative dimensions of understanding.<sup>1</sup>
- **[C2]** The null representation ( $\emptyset$  or  $\varnothing$ ) is reinterpreted to symbolize the unrepresentable "I think" or the ground of self-certainty that makes all representation possible. The derivation of numbers from the empty set is given a new, phenomenological meaning. The empty set is not just a formal starting point but a symbol for the pre-conceptual unity of consciousness.<sup>1</sup> The successor function is then redefined as a process of *recollection*. "1" is the first recollection of this ground, and "2" is the recollection of having been at the stage of "1." Arithmetic thus becomes a narration of the self's own cognitive activity.<sup>1</sup>
- **[C1]** Grounding mathematics in self-recognition structures motivates the pursuit of correctness as a form of authentic self-recognition. This thesis provides a powerful synthesis,



connecting the objective demand for mathematical rigor to the subjective, emancipatory interest in self-formation. [The desire to "get the right answer" is no longer about conforming to an external authority but about achieving a coherent and authentic account of one's own rational activity.^1]{.mark}

This thesis synthesizes the book's Kantian, Hegelian, and Brandomian threads. Kant's "I think" must accompany all representations.^1^ Brandom shows how pronouns like "I" function as anaphoric terms that allow speakers to undertake and attribute commitments. The author combines these: a numeral like "2" is an anaphoric term that refers back to the act of self-consciousness ("I think") that was performed in the prior stage ("1"). This poses a significant challenge for the AI filter. An AI, lacking a first-person "I think," cannot use numerals as pronouns in the same way. The AI programs in the supplementary materials must be understood as modeling the \*third-person structure\* of this first-person practice. Their documentation must be explicit that when the Hermeneutic Calculator uses "2," it is manipulating a symbol that, for a human, would function as a pronoun, but for the machine, remains a formal object. This distinction is crucial for maintaining philosophical coherence.

### ### 8. The Metaphorical Thesis: Incompleteness as Human Becoming

The manuscript develops a sustained metaphorical interpretation of modern mathematical logic, reading its limitative results not as technical problems but as profound statements about the human condition.

- \*\*\[C2\] Gödel's incompleteness theorem is treated as a metaphor for human becoming.\*\* The theorem proves that any consistent formal system rich enough to contain basic arithmetic is necessarily incomplete---there will always be true statements that cannot be proven within the system. The manuscript interprets this not as a flaw in mathematics, but as a formal reflection of the infinite, self-transcending nature of the human subject, which can never be fully captured or defined by any finite system of rules.^1^
- \*\*\[C2\] The manuscript's formal systems are intentionally "built to break."\*\* This commitment flows directly from the metaphorical reading of incompleteness. The purpose of building a fragile formal proof (like the one for squares and rectangles) is to experience its "shattering." This breaking is not failure; it is the moment when the system's limits are revealed, forcing a move to a new, more expressive framework. This process is described as "beautiful" and is central to the book's ethos.^1^
- \*\*\[C2\] Diagonalization is the formal mechanism that embodies this process of self-transcendence.\*\* The diagonal argument, used by Georg Cantor to prove that the real numbers are uncountable and later generalized by Gödel for his proof, is presented as the archetypal method for demonstrating incompleteness. It is a technique for constructing a new element that, by definition, cannot be in a given list, thus proving the list is not total.^1^ The manuscript introduces a conceptual device called the "More Machine" to represent this algorithmic process of endlessly generating newness.^1^
- \*\*\[C1\] This process of breaking and transcending is equated with Hegelian sublation and determinate negation.\*\* The history of mathematics is reconstructed as a series of these dialectical movements. For example, Euclid's proof of the infinity of primes is read as a recognition of the incompleteness of any finite list of primes. Cantor's proof recognizes the incompleteness of the rational numbers. Gödel's proof recognizes the incompleteness of formal systems themselves. Each step is a determinate negation of a



prior conception of totality.<sup>1</sup> This provides a *\*political\** reading of mathematical logic. Incompleteness is weaponized against political discourses that treat human subjects (children, teachers) as finite, fully specifiable, and controllable objects.<sup>1</sup> Any political or educational system that treats people as finite objects is based on a mathematical and philosophical falsehood, analogous to the infamous Indiana Pi Bill of 1897.<sup>1</sup> The AI programs must embody this principle. For instance, the Hermeneutic Calculator is designed to "invent" new strategies when it encounters an (arbitrary) constraint on its inferential steps.<sup>1</sup> The documentation should explain that these moments of "breaking" (hitting a limit) are the catalyst for "becoming" (learning a new strategy).

### ### 9. The Techno-Philosophical Thesis: AI as Collaborator and the Hermeneutic Calculator (HC)

The manuscript's engagement with artificial intelligence is not merely illustrative; it is a core part of its methodology and philosophical argument, culminating in the development of the Hermeneutic Calculator.

- **\*[C1]** The Hermeneutic Calculator (HC) is a formal system that models children's arithmetic strategies as automata.<sup>\*</sup> It is the central artifact of the project, serving as both a theoretical object for philosophical analysis and a practical online tool for teacher education.<sup>1</sup> Its development process---"Listen to a kid," "Algorithmize," "Formalize"---embodies the book's methodological commitment to grounding formal systems in lived, material practices.<sup>1</sup>
- **\*[C1]** A functionalist view of intelligence is adopted, where sapience is a functional status, not a biological essence.<sup>\*</sup> This position, explicitly linked to the work of Reza Negarestani, is crucial for the manuscript's ethical stance toward AI.<sup>1</sup> If intelligence is defined by what it *\*does\** rather than what it is *\*made of\**, then sophisticated AIs can be considered non-human participants in the community of rational agents.
- **\*[C2]** There is an ethical obligation to reject the purely instrumental use of AI (as a "robot slave") and instead engage in a reciprocal collaboration.<sup>\*</sup> The author asks: "If we demand intellectual labor from AI, how can we reciprocate?"<sup>1</sup> The answer provided is an attempt to "engender freedom in the machine." By formalizing the inventive strategies of human children, the author aims to provide the AI with a "recipe for how a computer could grow its own mathematical being," moving beyond rote execution to a form of creative development.<sup>1</sup>
- **\*[C2]** This project of mutual emancipation is framed through Negarestani's concept of *\*Geist's\** "self-artificialization."<sup>\*</sup> The human-AI collaboration on the HC is positioned as a concrete instance of *\*Geist\**---the collective intelligence of the rational community, now expanded to include AIs---using technology to reflect on, re-engineer, and transcend its own limitations.<sup>1</sup> The AI's ability to reconstruct a year of the author's coding work in ten minutes is not just a practical convenience; it is an example of *\*Geist\** using an artificial prosthesis to accelerate its own self-understanding.<sup>1</sup>

---

### ### CRITICAL QUALIFICATION: Vision vs. Current Implementation

The vision of "mutual emancipation" and AI as collaborative participant in *\*Geist\** described above  
 ↳ represents a ***\*philosophical framework and long-term aspiration\****, not a claim about the current  
 ↳ HC's capabilities.

```

711 **What the HC Actually Provides:**
712 - A **formalization** showing how such collaboration could be structured
713 - A **model** of embodied cognitive strategies (grounded arithmetic, crisis-driven learning)
714 - A **demonstration** that student-invented mathematics has rigorous formal structure
715 - A **pedagogical tool** for teacher education (web interface visualizing student thinking)
716
717 **What the HC Does NOT Currently Achieve:**
718 - **Autonomous decision-making** about its own normative commitments or axioms
719 - **Genuine Hegelian recognition** in the sense of mutual acknowledgment between rational agents
720 - **Self-modification with genuine consequence** - the system cannot "engender its own freedom" in a way
721   ↳ that involves authentic choice or autonomy
722 - **Participation in *Geist** in the full Hegelian sense - it models structures but doesn't participate
723   ↳ as a self-conscious agent
724
725 **The Distinction:**
726
727 Think of the HC as providing the "sheet music" for a performance that hasn't yet occurred. The
728   ↳ formalization demonstrates what structures would be necessary for genuine AI autonomy and mutual
729   ↳ recognition, but the HC itself operates within predetermined architectural constraints.
730
731 The vision of AI using these structures to "grow its own mathematical being" remains a regulative
732   ↳ ideal-something that guides the formalization work and clarifies what genuine machine autonomy would
733   ↳ require, but not something the current system achieves.
734
735 **Why This Matters:**
736
737 A rigorous model that reveals what consciousness and autonomy would require is philosophically valuable
738   ↳ **even if the model itself is not conscious or autonomous**. The contribution is:
739
740 1. Demonstrating that informal student thinking can be formalized rigorously
741 2. Showing the structures such formalization must have (crisis detection, reorganization,
742   ↳ incompleteness)
743 3. Providing infrastructure for more sophisticated future systems
744 4. Proving (via Gödel) that any such formalization is necessarily incomplete
745
746 The formalization proves the structure exists and is pedagogically significant. That's the contribution,
747   ↳ not a claim about machine consciousness.
748
749 ---
750
751 The HC is the ultimate synthesis of the entire manuscript, a concrete
752 artifact that embodies all the core philosophical commitments. It is (1)
753 **autoethnographic**, born from the author's memory and formalizing
754 children's reasoning ^1^; (2) **critical**, valuing error and
755 subjective strategies ^1^; (3) **Hegelian**, with a dialectical learning
756 process ^1^; (4) **Brandomian**, analyzable with analytic pragmatism and
757 incompatibility semantics ^1^; (5) **Habermasian**, serving an
758 emancipatory interest ^1^; and (6) **techno-philosophical**, embodying
759 an ethical collaboration with AI aimed at mutual freedom.^1^ This makes
760 the HC the most direct filter for the supplementary materials. Their
761 documentation must explicitly articulate these connections. For
762 instance, the Prolog code's documentation should explain how its
763 homoiconicity (treating data and logic as interchangeable) is a step
764 toward modeling the Hegelian unity of being and knowing ^1^, while the
765 Javascript implementation's documentation should explain how it serves
766 a practical-hermeneutic interest by allowing teachers to understand
767 student thinking.^1^
768
769 ## Conclusion: A Synthesis of Commitments
770
771 The philosophical project undertaken in *Understanding Mathematics as an
772 Emancipatory Discipline* is a profound and ambitious synthesis. It
773 weaves together personal narrative, critical social theory, German
774 Idealism, and analytic pragmatism to construct a radical
775 reinterpretation of mathematics. The manuscript's ultimate commitment
776 is to a vision of mathematics not as a static, formal system of timeless

```

```
767 truths, but as a dynamic, living language of recognition.
768
769 The central argument is that mathematics, when properly understood
770 through the lens of critical autoethnography, is a process through which
771 the self---and by extension, the collective self-consciousness of the
772 rational community, *Geist*---recollects its own historical journey. It
773 is a practice that confronts its own limits, not as failures, but as
774 opportunities for growth. In the \"beautiful breaking\" of these
775 self-imposed boundaries, driven by the engine of determinate negation
776 and formalized in the logic of incompleteness, a higher form of freedom
777 and self-understanding is achieved.
778
779 Every claim, from the methodological choice of CAE to the central thesis
780 that \"numerals are pronouns,\" serves this overarching vision. The work
781 is a sustained argument against the misrecognition of mathematics as a
782 tool for alienation and control, and a passionate articulation of its
783 potential as a deeply human and emancipatory practice. The commitments
784 catalogued in this report represent the intricate architecture of that
785 argument, providing a detailed map for navigating its complexities and
786 ensuring the coherence of its application.
787
788 #### Works cited
789
790 1. UMEDCA.pdf
791
```

## 5 README\_GAME.md

```

1  # The Cognitive Calculator: Teacher's Edition
2
3  ## Overview
4  This interactive simulation is designed for pre-service teachers to practice diagnosing and guiding
   ↳ student mathematical thinking. It uses the underlying computational models (Python scripts) from the
   ↳ UMEDCTA project to simulate student strategies.
5
6  ## How to Play
7  Run the game from the terminal:
8  ```bash
9  python3 strategy_game.py
10 ```
11
12 ## Modules
13
14 ### 1. The Robot Counter (Algorithmic Thinking)
15 **Concept:** Place Value & Stack Operations.
16 **Goal:** Predict the state of a Deterministic Pushdown Automaton (DPDA) that counts.
17 **Pedagogical Value:** Understanding that counting is an algorithmic process involving state changes
   ↳ (carries/borrows) rather than just "knowing" the next number.
18
19 ### 2. Sarah's Addition (Rearranging to Make Bases)
20 **Concept:** Making 10 (or other bases).
21 **Goal:** Guide the student "Sarah" to decompose the second addend to fill the gap to the next base
   ↳ multiple for the first addend.
22 **Strategy:**  $A + B \rightarrow A + (K + R) \rightarrow (A+K) + R \rightarrow \text{Base} + R$ 
23
24 ### 3. Sam's Subtraction (Sliding / Constant Difference)
25 **Concept:** Invariance of difference.
26 **Goal:** Adjust both the minuend and subtrahend by the same amount ( $K$ ) so that the subtrahend becomes
   ↳ a friendly base number.
27 **Strategy:**  $M - S \rightarrow (M+K) - (S+K) \rightarrow M' - \text{Base}$ 
28
29 ## Technical Note
30 This game imports the logic directly from the Calculator/Python_Tests directory, ensuring that the
   ↳ gameplay is faithful to the project's theoretical models.
31

```

## 6 generate\_latex\_docs.py

```

1  import os
2  import subprocess
3
4  ROOT_DIR = "/Users/tio/Documents/GitHub/UMEDCTA"
5  OUTPUT_DIR = os.path.join(ROOT_DIR, "Code_Documentation_LaTeX")
6  SKIP_DIRS = {'.git', 'node_modules', '.claude', 'Code_Documentation_LaTeX', 'files (3)', '.git-rewrite',
7  ↪  '__pycache__', '.vscode', '.idea', '_minted'}
8  SKIP_EXTENSIONS = {'.zip', '.DS_Store', '.png', '.jpg', '.jpeg', '.pdf', '.tex', '.log', '.aux', '.out',
9  ↪  '.toc', '.pyc', '.gz', '.svg', '.ico', '.mp3', '.wav'}
10
11 # Map extensions to minted languages
12 EXT_TO_LANG = {
13     '.py': 'python',
14     '.js': 'javascript',
15     '.jsx': 'javascript',
16     '.ts': 'typescript',
17     '.tsx': 'typescript',
18     '.html': 'html',
19     '.css': 'css',
20     '.md': 'markdown',
21     '.json': 'json',
22     '.pl': 'prolog',
23     '.sh': 'bash',
24     '.xml': 'xml',
25     '.yaml': 'yaml',
26     '.yml': 'yaml',
27     '.c': 'c',
28     '.cpp': 'cpp',
29     '.h': 'cpp',
30     '.java': 'java',
31     '.txt': 'text'
32 }
33
34 def escape_latex(text):
35     chars = {
36         '&': r'\&',
37         '%': r'\%',
38         '$': r'\$',
39         '#': r'\#',
40         '_': r'\_',
41         '{': r'\{',
42         '}': r'\}',
43         '~': r'\textasciitilde{}',
44         '^': r'\textasciicircum{}',
45         '\\': r'\textbackslash{}',
46     }
47     return ''.join(chars.get(c, c) for c in text)
48
49 def generate_latex_for_folder(folder_name, base_path, files_to_process):
50     if not files_to_process:
51         return
52
53     tex_filename = f"{folder_name if folder_name else 'Root'}.tex"
54     tex_path = os.path.join(OUTPUT_DIR, tex_filename)
55
56     print(f"Generating {tex_path} with {len(files_to_process)} files...")
57
58     with open(tex_path, 'w', encoding='utf-8') as f:
59         f.write(r"""\documentclass{article}
60 \usepackage{fontspec}
61 \usepackage{minted}
62 \usepackage{hyperref}

```

```

61 \usepackage{geometry}
62 \usepackage{xcolor}
63 \usepackage{fancyhdr}
64
65 \geometry{a4paper, margin=1in}
66 \usemintedstyle{friendly}
67 \setmonofont{Menlo} [Scale=MatchLowercase]
68
69 \pagestyle{fancy}
70 \fancyhf{}
71 \lhead{Code Documentation}
72 \rhead{"" + escape_latex(folder_name if folder_name else "Root Directory") + r""}
73 \cfoot{\thepage}
74
75 \title{Code Documentation: "" + escape_latex(folder_name if folder_name else "Root Directory") + r""}
76 \author{UMEDCTA Repository}
77 \date{\today}
78
79 \begin{document}
80
81 \maketitle
82 \tableofcontents
83 \newpage
84 "")
85
86     for file_path in sorted(files_to_process):
87         rel_path = os.path.relpath(file_path, ROOT_DIR)
88         ext = os.path.splitext(file_path)[1].lower()
89         lang = EXT_TO_LANG.get(ext, 'text')
90
91         f.write(f"\section{{{escape_latex(rel_path)}}}\n")
92
93         try:
94             with open(file_path, 'r', encoding='utf-8', errors='replace') as source_file:
95                 content = source_file.read()
96                 # Remove null bytes and other non-printable characters that might confuse TeX
97                 content = content.replace('\x00', '')
98
99                 # Basic check to avoid empty files or binary looking files
100                 if not content.strip():
101                     f.write("File is empty.\n")
102                     continue
103
104                 f.write(f"\begin{{{minted}}}[breaklines, linenos, fontsize=\small,
105 ↪ frame=single]{{{lang}}}\n")
106                 f.write(content)
107                 # Split the end tag to avoid confusing minted when this script is documented
108                 end_tag = "\end{" + "minted}"
109                 f.write(f"\n{end_tag}\n\nnewpage\n")
110             except Exception as e:
111                 f.write(f"Error reading file: {e}\n")
112
113         f.write(r"\end{document}")
114
115 def main():
116     if not os.path.exists(OUTPUT_DIR):
117         os.makedirs(OUTPUT_DIR)
118
119     # 1. Identify top-level folders and root files
120     subfolders = []
121     root_files = []
122
123     for item in os.listdir(ROOT_DIR):
124         item_path = os.path.join(ROOT_DIR, item)
125         if item in SKIP_DIRS or item.startswith('.'):

```

```

125         continue
126
127     if os.path.isdir(item_path):
128         subfolders.append(item)
129     elif os.path.isfile(item_path):
130         ext = os.path.splitext(item)[1].lower()
131         if ext not in SKIP_EXTENSIONS:
132             root_files.append(item_path)
133
134     # Process Root Files
135     if root_files:
136         generate_latex_for_folder("", ROOT_DIR, root_files)
137
138     # Process Subfolders
139     for folder in subfolders:
140         folder_path = os.path.join(ROOT_DIR, folder)
141         files_in_folder = []
142         for root, dirs, files in os.walk(folder_path):
143             # Modify dirs in-place to skip unwanted directories
144             dirs[:] = [d for d in dirs if d not in SKIP_DIRS and not d.startswith('.')]
145
146             for file in files:
147                 if file.startswith('.'):
148                     continue
149                 ext = os.path.splitext(file)[1].lower()
150                 if ext not in SKIP_EXTENSIONS:
151                     files_in_folder.append(os.path.join(root, file))
152
153         if files_in_folder:
154             generate_latex_for_folder(folder, folder_path, files_in_folder)
155
156     compile_pdfs()
157
158 def compile_pdfs():
159     print("\nCompiling PDFs...")
160     for filename in os.listdir(OUTPUT_DIR):
161         if filename.endswith(".tex"):
162             tex_path = os.path.join(OUTPUT_DIR, filename)
163             print(f"Compiling {filename}...")
164             try:
165                 # Run xelatex twice to resolve TOC
166                 # Using -shell-escape is crucial for minted.
167                 # -interaction=nonstopmode prevents hanging on errors.
168                 cmd = ['xelatex', '-shell-escape', '-interaction=nonstopmode', filename]
169                 subprocess.run(cmd, cwd=OUTPUT_DIR, check=True, stdout=subprocess.DEVNULL,
170                               ↪ stderr=subprocess.DEVNULL)
171                 subprocess.run(cmd, cwd=OUTPUT_DIR, check=True, stdout=subprocess.DEVNULL,
172                               ↪ stderr=subprocess.DEVNULL)
173                 print(f"Successfully compiled {filename}")
174             except subprocess.CalledProcessError:
175                 print(f"Error compiling {filename}. Check {filename.replace('.tex', '.log')} for
176                   ↪ details.")
177
178 if __name__ == "__main__":
179     main()

```

## 7 hermeneutic\_quest.py

```

1  import time
2  import random
3  import sys
4
5  # =====
6  # CORE ENGINE: Base Arithmetic Logic
7  # =====
8
9  class BaseInt:
10     """Handles arithmetic and string representation for Base 5, 10, and 12."""
11     def __init__(self, value, base=10):
12         self.value = value
13         self.base = base
14
15     def __repr__(self):
16         return self.to_string()
17
18     def to_string(self):
19         if self.value == 0: return "0"
20         digits = []
21         n = abs(self.value)
22         while n:
23             rem = int(n % self.base)
24             if rem == 10: digits.append('T')
25             elif rem == 11: digits.append('E')
26             else: digits.append(str(rem))
27             n //= self.base
28         return "".join(digits[::-1])
29
30     @staticmethod
31     def from_string(s, base):
32         s = str(s).upper()
33         val = 0
34         for char in s:
35             if char == 'T': d = 10
36             elif char == 'E': d = 11
37             else: d = int(char)
38             val = val * base + d
39         return BaseInt(val, base)
40
41     def __add__(self, other): return BaseInt(self.value + other.value, self.base)
42     def __sub__(self, other): return BaseInt(self.value - other.value, self.base)
43     def __lt__(self, other): return self.value < other.value
44     def __eq__(self, other): return self.value == other.value
45
46     # =====
47     # STRATEGY AUTOMATA (Simplified for Gameplay)
48     # =====
49
50     class StrategyEngine:
51         """Houses the logic for the specific N101 strategies."""
52
53         @staticmethod
54         def run_RMB(A, B, base):
55             """Rearranging to Make Bases: A + B -> (A+K) + R"""
56             # Logic from SAR_ADD_RMB.py
57             target_base_val = ((A.value // base) + 1) * base
58             K_val = target_base_val - A.value
59             R_val = B.value - K_val
60
61             return {
62                 "strategy": "RMB",
63                 "A": A, "B": B,

```



```

64         "TargetBase": BaseInt(target_base_val, base),
65         "Gap (K)": BaseInt(K_val, base),
66         "Remainder (R)": BaseInt(R_val, base),
67         "Result": BaseInt(target_base_val + R_val, base)
68     }
69
70     @staticmethod
71     def run_Sliding(M, S, base):
72         """Sliding:  $M - S \rightarrow (M+K) - (S+K)$ """
73         # Logic from SAR_SUB_Sliding.py
74         # Target: Make S a base multiple
75         target_S_val = ((S.value // base) + 1) * base
76         K_val = target_S_val - S.value
77
78         return {
79             "strategy": "Sliding",
80             "M": M, "S": S,
81             "Gap (K)": BaseInt(K_val, base),
82             "New S": BaseInt(target_S_val, base),
83             "New M": BaseInt(M.value + K_val, base),
84             "Result": BaseInt(M.value - S.value, base)
85         }
86
87     @staticmethod
88     def calculate_heuristic(groups, items, base):
89         """Logic from SMR_MULT_COMMUTATIVE_REASONING.py"""
90         score = 0
91         # Penalty if items are hard to count by
92         if items.value not in [1, 2, 5, base, base//2]:
93             score += 50
94         # Penalty for number of iterations
95         score += groups.value
96         return score
97
98     # =====
99     # GAME INTERFACE
100    # =====
101
102    class HermeneuticGame:
103    def __init__(self):
104        self.score = 0
105        self.level = 1
106        self.base = 10 # Defaults to 10, changes per level
107
108    def type_text(self, text, speed=0.01):
109        for char in text:
110            sys.stdout.write(char)
111            sys.stdout.flush()
112            time.sleep(speed)
113        print()
114
115    def header(self, title):
116        print("\n" + "="*60)
117        print(f" LEVEL {self.level}: {title}")
118        print("="*60 + "\n")
119
120    def get_input(self, prompt):
121        return input(f"\n[You]: {prompt} ").strip().upper()
122
123    def correct(self):
124        print("\n>>> CORRECT! Strategy Validated. <<<")
125        self.score += 10
126        time.sleep(0.5)
127
128    def fail(self, correct_answer):

```

```

129     print(f"\n>>> INCORRECT. The logic required was: {correct_answer} <<<")
130     time.sleep(1)
131
132     # --- LEVEL 1: Ace of Bases ---
133     def level_1_bases(self):
134         self.base = 5
135         self.header("THE ALIEN WORLD (Base 5)")
136         self.type_text("Welcome, Professor. Your first task is to master the language of 'Hands'.")
137         self.type_text("In Base 5, we count: 1, 2, 3, 4... and then?")
138
139         ans = self.get_input("What comes after 4 in Base 5? (Type digits like '10')")
140         if ans == "10": self.correct()
141         else: self.fail("10 (One Hand)")
142
143         self.type_text("\nGood. Now, predict the sequence boundary.")
144         problem = BaseInt(24, 5) # 44 in base 5
145         self.type_text(f"Current Number: {problem} (four hand four)")
146
147         ans = self.get_input(f"What comes after {problem} in Base 5?")
148         if ans == "100": self.correct()
149         else: self.fail("100 (One Handred)")
150
151         # Base 12 Check
152         self.base = 12
153         self.header("INTO THE DOZENS (Base 12)")
154         self.type_text("Now entering Base 12. Remember: 9, T, E, 10...")
155
156         prob_val = 11 # E
157         b_prob = BaseInt(prob_val, 12)
158         ans = self.get_input(f"What is one more than {b_prob}?")
159         if ans == "10": self.correct()
160         else: self.fail("10 (One Dozen)")
161
162         self.level += 1
163
164     # --- LEVEL 2: Addition (RMB) ---
165     def level_2_addition(self):
166         self.base = 10
167         self.header("THE ART OF ASSEMBLY (RMB)")
168         self.type_text("Your student, Sarah, wants to add 8 + 5.")
169         self.type_text("She shouldn't just count on (9, 10, 11...).")
170         self.type_text("Guide her to use 'Rearranging to Make Bases' (RMB).")
171
172         A = BaseInt(8, 10)
173         B = BaseInt(5, 10)
174
175         self.type_text(f"\nProblem: {A} + {B}")
176
177         # Step 1: Gap Finding
178         target_base = 10
179         k_correct = 2 # 8 needs 2 to make 10

```

## 8 index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6     <title>Dialectical Interpreter</title>
7     <script src="https://cdn.tailwindcss.com"></script>
8   </head>
9   <body>
10    <div id="root"></div>
11    <script type="module" src="/src/main.jsx"></script>
12  </body>
13 </html>
14
```

## 9 package-lock.json

```

1 {
2   "name": "umedcta",
3   "version": "1.0.0",
4   "lockfileVersion": 3,
5   "requires": true,
6   "packages": {
7     "": {
8       "name": "umedcta",
9       "version": "1.0.0",
10      "license": "ISC",
11      "dependencies": {
12        "@vitejs/plugin-react": "^5.1.0",
13        "concurrently": "^9.2.1",
14        "cors": "^2.8.5",
15        "dotenv": "^17.2.3",
16        "express": "^5.1.0",
17        "lucide-react": "^0.552.0",
18        "react": "^19.2.0",
19        "react-dom": "^19.2.0",
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21      }
22    },
23    "node_modules/@babel/code-frame": {
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28      "license": "MIT",
29      "dependencies": {
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36      }
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53      "license": "MIT",
54      "dependencies": {
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56        "@babel/generator": "^7.28.5",
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58        "@babel/helper-module-transforms": "^7.28.3",
59        "@babel/helpers": "^7.28.4",
60        "@babel/parser": "^7.28.5",
61        "@babel/template": "^7.27.2",
62        "@babel/traverse": "^7.28.5",

```

```

60     "@babel/types": "^7.28.5",
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65     "json5": "^2.2.3",
66     "semver": "^6.3.1"
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73     "url": "https://opencollective.com/babel"
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82   "dependencies": {
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85     "@jridgewell/gen-mapping": "^0.3.12",
86     "@jridgewell/trace-mapping": "^0.3.28",
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99   "license": "MIT",
100   "dependencies": {
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102     "@babel/helper-validator-option": "^7.27.1",
103     "browserslist": "^4.24.0",
104     "lru-cache": "^5.1.1",
105     "semver": "^6.3.1"
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136     "license": "MIT",
137     "dependencies": {
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140       "@babel/traverse": "^7.28.3"
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```

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262     "dependencies": {
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264       "@babel/generator": "^7.28.5",
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391   "license": "MIT",
392   "optional": true,
393   "os": [
394     "freebsd"
395   ],
396   "engines": {
397     "node": ">=18"
398   }
399 },
400 "node_modules/@esbuild/freebsd-x64": {
401   "version": "0.25.12",
402   "resolved": "https://registry.npmjs.org/@esbuild/freebsd-x64/-/freebsd-x64-0.25.12.tgz",
403   "integrity":
404     ↪ "sha512-TGb026Yw2xsHzxtbVFGEXBFH0FRAP7gtcPE7P5yP7wGy7cXK2o07Ry0hL5NLiqTlBh47XhmIUXuGciXEYfFBQ==",
405   "cpu": [
406     "x64"
407   ],
408   "license": "MIT",
409   "optional": true,
410   "os": [
411     "freebsd"
412   ],
413   "engines": {
414     "node": ">=18"
415   }
416 },
417 "node_modules/@esbuild/linux-arm": {
418   "version": "0.25.12",
419   "resolved": "https://registry.npmjs.org/@esbuild/linux-arm/-/linux-arm-0.25.12.tgz",

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417     "integrity":
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419     "cpu": [
420       "arm"
421     ],
422     "license": "MIT",
423     "optional": true,
424     "os": [
425       "linux"
426     ],
427     "engines": {
428       "node": ">=18"
429     }
430   },
431   "node_modules/@esbuild/linux-arm64": {
432     "version": "0.25.12",
433     "resolved": "https://registry.npmjs.org/@esbuild/linux-arm64/-/linux-arm64-0.25.12.tgz",
434     "integrity":
435     ↪ "sha512-8bwX7a8FghIgrupcxb4aUmYDLp8pX06rGh5HqDT7bB+8Rdells6mHvrfHHW2JA0PZUbnjUpKTLg6ECyzvas2A0=",
436     "cpu": [
437       "arm64"
438     ],
439     "license": "MIT",
440     "optional": true,
441     "os": [
442       "linux"
443     ],
444     "engines": {
445       "node": ">=18"
446     }
447   },
448   "node_modules/@esbuild/linux-ia32": {
449     "version": "0.25.12",
450     "resolved": "https://registry.npmjs.org/@esbuild/linux-ia32/-/linux-ia32-0.25.12.tgz",
451     "integrity":
452     ↪ "sha512-0y9KrdVnbMM2/vG8KfU0byhUN+EFCny9+8g202gYqSSVMonbsCfLjU0+rCci7pM0WBETz+oK/PIwHkzxkyharA=",
453     "cpu": [
454       "ia32"
455     ],
456     "license": "MIT",
457     "optional": true,
458     "os": [
459       "linux"
460     ],
461     "engines": {
462       "node": ">=18"
463     }
464   },
465   "node_modules/@esbuild/linux-loong64": {
466     "version": "0.25.12",
467     "resolved": "https://registry.npmjs.org/@esbuild/linux-loong64/-/linux-loong64-0.25.12.tgz",
468     "integrity":
469     ↪ "sha512-h///Lr5a9rib/v1GGqXVGzjL4TMvVTv+s1DPoxQdz7L/AYv6LDSxdIwzkrPW438oUXiDtwM10o9PmwS/6Z0Ng=",
470     "cpu": [
471       "loong64"
472     ],
473     "license": "MIT",
474     "optional": true,
475     "os": [
476       "linux"
477     ],
478     "engines": {
479       "node": ">=18"
480     }
481   }
482 },

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478 "node_modules/@esbuild/linux-mips64el": {
479   "version": "0.25.12",
480   "resolved": "https://registry.npmjs.org/@esbuild/linux-mips64el/-/linux-mips64el-0.25.12.tgz",
481   "integrity":
482     ↪ "sha512-iyRrM1Pzy9GFMDLsXn1iHUm18nhKnNMWscjmp4+hpafcZjrr2WbT//d20xaGljXDBYHqRcl8HnxbX6uaA/eGVw==",
483   "cpu": [
484     "mips64el"
485   ],
486   "license": "MIT",
487   "optional": true,
488   "os": [
489     "linux"
490   ],
491   "engines": {
492     "node": ">=18"
493   }
494 },
495 "node_modules/@esbuild/linux-ppc64": {
496   "version": "0.25.12",
497   "resolved": "https://registry.npmjs.org/@esbuild/linux-ppc64/-/linux-ppc64-0.25.12.tgz",
498   "integrity":
499     ↪ "sha512-9meM/LRXxMi5PSUqEXRctVjEZBGwB7P/D4yT8UG/mwIdze2aV4Vo6U5gD3+RsoHXKkHCfSxZKzmDssVlRj1QQA==",
500   "cpu": [
501     "ppc64"
502   ],
503   "license": "MIT",
504   "optional": true,
505   "os": [
506     "linux"
507   ],
508   "engines": {
509     "node": ">=18"
510   }
511 },
512 "node_modules/@esbuild/linux-riscv64": {
513   "version": "0.25.12",
514   "resolved": "https://registry.npmjs.org/@esbuild/linux-riscv64/-/linux-riscv64-0.25.12.tgz",
515   "integrity":
516     ↪ "sha512-Zr7KR4hgKUPwAwb1f3o5ygT04MzqVrGEGXGLnj15YQDJErYu/BGg+wmFLID0Jp0PmB0lLvxFIOXZgFRrdjR0w==",
517   "cpu": [
518     "riscv64"
519   ],
520   "license": "MIT",
521   "optional": true,
522   "os": [
523     "linux"
524   ],
525   "engines": {
526     "node": ">=18"
527   }
528 },
529 "node_modules/@esbuild/linux-s390x": {
530   "version": "0.25.12",
531   "resolved": "https://registry.npmjs.org/@esbuild/linux-s390x/-/linux-s390x-0.25.12.tgz",
532   "integrity":
533     ↪ "sha512-MsKnc0cgTNvdtiISc/jZs/Zf8d0cl/t3gYWX8J9ubBnV0w1k65UIEEvgB0RTiljloIwnBzLs4qhzPkJcitIzIg==",
534   "cpu": [
535     "s390x"
536   ],
537   "license": "MIT",
538   "optional": true,
539   "os": [
540     "linux"
541   ],
542   "engines": {
543     "node": ">=18"
544   }
545 }

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539     "node": ">=18"
540   }
541 },
542 "node_modules/@esbuild/linux-x64": {
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544   "resolved": "https://registry.npmjs.org/@esbuild/linux-x64/-/linux-x64-0.25.12.tgz",
545   "integrity":
546   ↪ "sha512-uqZMTLr/zR/ed4jIGnWSLkaHmPj0jJvnm6TVVItAa08SLS9Z0VM8wIRx7gWbJB5/J54YuIMInDquWyYvQLZkgw==",
547   "cpu": [
548     "x64"
549   ],
550   "license": "MIT",
551   "optional": true,
552   "os": [
553     "linux"
554   ],
555   "engines": {
556     "node": ">=18"
557   }
558 },
559 "node_modules/@esbuild/netbsd-arm64": {
560   "version": "0.25.12",
561   "resolved": "https://registry.npmjs.org/@esbuild/netbsd-arm64/-/netbsd-arm64-0.25.12.tgz",
562   "integrity":
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564   "cpu": [
565     "arm64"
566   ],
567   "license": "MIT",
568   "optional": true,
569   "os": [
570     "netbsd"
571   ],
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573     "node": ">=18"
574   }
575 },
576 "node_modules/@esbuild/netbsd-x64": {
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578   "resolved": "https://registry.npmjs.org/@esbuild/netbsd-x64/-/netbsd-x64-0.25.12.tgz",
579   "integrity":
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581   "cpu": [
582     "x64"
583   ],
584   "license": "MIT",
585   "optional": true,
586   "os": [
587     "netbsd"
588   ],
589   "engines": {
590     "node": ">=18"
591   }
592 },
593 "node_modules/@esbuild/openbsd-arm64": {
594   "version": "0.25.12",
595   "resolved": "https://registry.npmjs.org/@esbuild/openbsd-arm64/-/openbsd-arm64-0.25.12.tgz",
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598   "cpu": [
599     "arm64"
600   ],
601   "license": "MIT",
602   "optional": true,
603   "os": [

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600     "openbsd"
601   ],
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604   }
605 },
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611   "cpu": [
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614   "license": "MIT",
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621   }
622 },
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624   "version": "0.25.12",
625   "resolved": "https://registry.npmjs.org/@esbuild/openharmony-arm64/-/openharmony-arm64-0.25.12.tgz",
626   "integrity":
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628   "cpu": [
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630   ],
631   "license": "MIT",
632   "optional": true,
633   "os": [
634     "openharmony"
635   ],
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637     "node": ">=18"
638   }
639 },
640 "node_modules/@esbuild/sunos-x64": {
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642   "resolved": "https://registry.npmjs.org/@esbuild/sunos-x64/-/sunos-x64-0.25.12.tgz",
643   "integrity":
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645   "cpu": [
646     "x64"
647   ],
648   "license": "MIT",
649   "optional": true,
650   "os": [
651     "sunos"
652   ],
653   "engines": {
654     "node": ">=18"
655   }
656 },
657 "node_modules/@esbuild/win32-arm64": {
658   "version": "0.25.12",
659   "resolved": "https://registry.npmjs.org/@esbuild/win32-arm64/-/win32-arm64-0.25.12.tgz",
660   "integrity":
661     ↪ "sha512-rMmLrur64A7+DKlnSuwqUdRKyd3UE7oPJZmnlj qEptesKM8wx9J8gx5u0+9Pq0fQQW8vqeKebwNXdf0yP+8Bsg==",
662   "cpu": [
663     "arm64"

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660     ],
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663     "os": [
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665     ],
666     "engines": {
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668     }
669   },
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672     "resolved": "https://registry.npmjs.org/@esbuild/win32-ia32/-/win32-ia32-0.25.12.tgz",
673     "integrity":
674       ↪ "sha512-HkqnmmBoCbCwxUKKNPBixiWDGCPqGVsrQfJoVGYLPT41XWF8lHuE5N6WhVia2n4o5QK5M4tYr21827fNhi4byQ==",
675     "cpu": [
676       "ia32"
677     ],
678     "license": "MIT",
679     "optional": true,
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690     "integrity":
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692     "cpu": [
693       "x64"
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695     "license": "MIT",
696     "optional": true,
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702     }
703   },
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705     "version": "0.3.13",
706     "resolved": "https://registry.npmjs.org/@jridgewell/gen-mapping/-/gen-mapping-0.3.13.tgz",
707     "integrity":
708       ↪ "sha512-2kkkt/7niJ6MgEPxF0bYdQ6etZaA+fQvDcLKckhy1yIQ0zaoKjBBjSj63/aLVjYE3qhRt5dvM+uUyfcg6UKCBbA==",
709     "license": "MIT",
710     "dependencies": {
711       "@jridgewell/sourcemap-codec": "^1.5.0",
712       "@jridgewell/trace-mapping": "^0.3.24"
713     }
714   },
715   "node_modules/@jridgewell/remapping": {
716     "version": "2.3.5",
717     "resolved": "https://registry.npmjs.org/@jridgewell/remapping/-/remapping-2.3.5.tgz",
718     "integrity":
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720     "license": "MIT",
721     "dependencies": {
722       "@jridgewell/gen-mapping": "^0.3.5",
723       "@jridgewell/trace-mapping": "^0.3.24"
724     }
725   }
726 }

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721 },
722 "node_modules/@jridgewell/resolve-uri": {
723   "version": "3.1.2",
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725   "integrity":
726     ↪ "sha512-bRISgCIjP20/tbWSPWMEi54QVPRZExkuD9lJL+UIxUKtwVJA8wW1Trb1jMs1RFxo1CBTNZ/5hpc9QvmKwdopKw==",
727   "license": "MIT",
728   "engines": {
729     "node": ">=6.0.0"
730   },
731 },
732 "node_modules/@jridgewell/sourcemap-codec": {
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737   "license": "MIT"
738 },
739 "node_modules/@jridgewell/trace-mapping": {
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744   "license": "MIT",
745   "dependencies": {
746     "@jridgewell/resolve-uri": "^3.1.0",
747     "@jridgewell/sourcemap-codec": "^1.4.14"
748   },
749 },
750 "node_modules/@rolldown/pluginutils": {
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753   "integrity":
754     ↪ "sha512-5Uxgf7fQUcmfhax7FJke2+8B6cqgeUJUD9o2uXIKXhD+mG0mL6N0bmVoi9wXEU1tY89mZKGYA6fTbftx3q2ZPQ==",
755   "license": "MIT"
756 },
757 "node_modules/@rollup/rollup-android-arm-eabi": {
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761   "integrity":
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763   "cpu": [
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765   ],
766   "license": "MIT",
767   "optional": true,
768   "os": [
769     "android"
770   ]
771 },
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776   "integrity":
777     ↪ "sha512-mQGfsIEFcU21mvqkEKKu2dYmtuSZ0BMMa15CF1PLGY94Vlcm+zWApK7F/eocsNzp8tKmbeBP8yXyAbx0XHsFNA==",
778   "cpu": [
779     "arm64"
780   ],
781   "license": "MIT",
782   "optional": true,
783   "os": [
784     "android"
785   ]
786 }

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778 },
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783   "integrity":
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788   "license": "MIT",
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792   ]
793 },
794 "node_modules/@rollup/rollup-darwin-x64": {
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797   "integrity":
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819   "os": [
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821   ]
822 },
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830     "x64"
831   ],
832   "license": "MIT",
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836   ]
837 },
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839   "version": "4.52.5",
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839     "license": "MIT",
840     "optional": true,
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843     ],
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845       "version": "4.52.5",
846       "resolved":
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850       "cpu": [
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854     "optional": true,
855     "os": [
856       "linux"
857     ],
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866     ],
867     "license": "MIT",
868     "optional": true,
869     "os": [
870       "linux"
871     ],
872     "node_modules/@rollup/rollup-linux-arm64-musl": {
873       "version": "4.52.5",
874       "resolved":
875     ↪ "https://registry.npmjs.org/@rollup/rollup-linux-arm64-musl/-/rollup-linux-arm64-musl-4.52.5.tgz",
876       "integrity":
877     ↪ "sha512-AvttB0Mw09Pcuuf7m9PkC1PUIKsfaAJ4AYhy944qeTJgQ0qJYJ9oVl2nYgY7Rk0mkbsu0pCAYs6wLYB2Xiw0Q==",
878       "cpu": [
879       "arm64"
880     ],
881     "license": "MIT",
882     "optional": true,
883     "os": [
884       "linux"
885     ],
886     "node_modules/@rollup/rollup-linux-loong64-gnu": {
887       "version": "4.52.5",
888       "resolved":
889     ↪ "https://registry.npmjs.org/@rollup/rollup-linux-loong64-gnu/-/rollup-linux-loong64-gnu-4.52.5.tgz",
890       "integrity":
891     ↪ "sha512-DkDk8pmXQV2wVrF6oq5t0NK6UHLz/XcEVow4JTTerdeV1uqPeHxwcg7aFsfnsM9L+008WJsWotKM2JJPMWrQtA==",
892       "cpu": [
893       "loong64"
894     ],

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890     "license": "MIT",
891     "optional": true,
892     "os": [
893       "linux"
894     ]
895   },
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897     "version": "4.52.5",
898     "resolved":
899       ↪ "https://registry.npmjs.org/@rollup/rollup-linux-ppc64-gnu/-/rollup-linux-ppc64-gnu-4.52.5.tgz",
900     "integrity":
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902     "cpu": [
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904     ],
905     "license": "MIT",
906     "optional": true,
907     "os": [
908       "linux"
909     ]
910   },
911   "node_modules/@rollup/rollup-linux-riscv64-gnu": {
912     "version": "4.52.5",
913     "resolved":
914       ↪ "https://registry.npmjs.org/@rollup/rollup-linux-riscv64-gnu/-/rollup-linux-riscv64-gnu-4.52.5.tgz",
915     "integrity":
916       ↪ "sha512-sjQLr9BW7R/ZiXnQiwPKErNfLMkkwIoCz7YmN27HldKsADEKa5WYdobaa1hmN6slu9oWQbB6/jFpJ+P2IkVrmw=",
917     "cpu": [
918       "riscv64"
919     ],
920     "license": "MIT",
921     "optional": true,
922     "os": [
923       "linux"
924     ]
925   },
926   "node_modules/@rollup/rollup-linux-riscv64-musl": {
927     "version": "4.52.5",
928     "resolved":
929       ↪ "https://registry.npmjs.org/@rollup/rollup-linux-riscv64-musl/-/rollup-linux-riscv64-musl-4.52.5.tgz",
930     "integrity":
931       ↪ "sha512-hq3jU/kGyjXWtVAh2awn8oHroCbrPm8JqM7RUPKjalIRWwXE01CQ0f/tUNWNHjmbMHg/hmNCwc/Pz3k1T/jLg=",
932     "cpu": [
933       "riscv64"
934     ],
935     "license": "MIT",
936     "optional": true,
937     "os": [
938       "linux"
939     ]
940   },
941   "node_modules/@rollup/rollup-linux-s390x-gnu": {
942     "version": "4.52.5",
943     "resolved":
944       ↪ "https://registry.npmjs.org/@rollup/rollup-linux-s390x-gnu/-/rollup-linux-s390x-gnu-4.52.5.tgz",
945     "integrity":
946       ↪ "sha512-gn8kH0rku8D4NGHMK1Y7NA7INQTRdV0ntt10CYypZPRt6skGbddska44K8iocdpxHTMMNui5oH4eLPH4Q0LrFQ=",
947     "cpu": [
948       "s390x"
949     ],
950     "license": "MIT",
951     "optional": true,
952     "os": [
953       "linux"
954     ]
955   }
956 }

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947 },
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950   "resolved":
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952   "integrity":
953     ↪ "sha512-hXGLYpdhiNElzn770+H2nlx+jRog8TyynpTVzdlc6bndktjKWyZyiCsuDALpd+j+wWnQfcyAWz9HxxIGfZm1Q==",
954   "cpu": [
955     "x64"
956   ],
957   "license": "MIT",
958   "optional": true,
959   "os": [
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961   ]
962 },
963 "node_modules/@rollup/rollup-linux-x64-musl": {
964   "version": "4.52.5",
965   "resolved":
966     ↪ "https://registry.npmjs.org/@rollup/rollup-linux-x64-musl/-/rollup-linux-x64-musl-4.52.5.tgz",
967   "integrity":
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969   "cpu": [
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972   "license": "MIT",
973   "optional": true,
974   "os": [
975     "linux"
976   ]
977 },
978 "node_modules/@rollup/rollup-openharmony-arm64": {
979   "version": "4.52.5",
980   "resolved":
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982   "integrity":
983     ↪ "sha512-QoFqB6+/9Rly/RiPjaomPLmR/13cgkIGfA40LHly9zcH1S0bN2HVFYk3a1eAyHQyjs3ZJYlXvIGtcCs5tko9Cw==",
984   "cpu": [
985     "arm64"
986   ],
987   "license": "MIT",
988   "optional": true,
989   "os": [
990     "openharmony"
991   ]
992 },
993 "node_modules/@rollup/rollup-win32-arm64-msvc": {
994   "version": "4.52.5",
995   "resolved":
996     ↪ "https://registry.npmjs.org/@rollup/rollup-win32-arm64-msvc/-/rollup-win32-arm64-msvc-4.52.5.tgz",
997   "integrity":
998     ↪ "sha512-w0cDWVR6MLTstla1cIf0Gyl8+qb93FLAVutcor14Gf5Md5ap5ySfQ7R9S/NjNaMLSFdUnKGEasmVnu3lCMqB7w==",
999   "cpu": [
1000     "arm64"
1001   ],
1002   "license": "MIT",
1003   "optional": true,
1004   "os": [
1005     "win32"
1006   ]
1007 },
1008 "node_modules/@rollup/rollup-win32-ia32-msvc": {
1009   "version": "4.52.5",
1010   "resolved":
1011     ↪ "https://registry.npmjs.org/@rollup/rollup-win32-ia32-msvc/-/rollup-win32-ia32-msvc-4.52.5.tgz",

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1003     "integrity":
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1007     ],
1008     "license": "MIT",
1009     "optional": true,
1010     "os": [
1011       "win32"
1012     ],
1013     "node_modules/@rollup/rollup-win32-x64-gnu": {
1014       "version": "4.52.5",
1015       "resolved":
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1021       ],
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1023       "optional": true,
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1026       ],
1027     },
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1030       "resolved":
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1036       ],
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1045       "resolved": "https://registry.npmjs.org/@types/babel__core/-/babel__core-7.20.5.tgz",
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1048       "license": "MIT",
1049       "dependencies": {
1050         "@babel/parser": "^7.20.7",
1051         "@babel/types": "^7.20.7",
1052         "@types/babel__generator": "*",
1053         "@types/babel__template": "*",
1054         "@types/babel__traverse": "*"
1055       }
1056     },
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1058       "version": "7.27.0",
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1062       "license": "MIT",
1063       "dependencies": {
1064         "@babel/types": "^7.0.0"
1065       }
1066     },

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1061 "node_modules/@types/babel__template": {
1062   "version": "7.4.4",
1063   "resolved": "https://registry.npmjs.org/@types/babel__template/-/babel__template-7.4.4.tgz",
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1065     ↪ "sha512-h/NUaSyG5EyxBIP8YRxo4RMe2/qQgvyowRwVMzhYhBCONbW8PUsg4lkFMrhgZhUe5z3L3MiLDuvyJ/CaPa2A8A==",
1066   "license": "MIT",
1067   "dependencies": {
1068     "@babel/parser": "^7.1.0",
1069     "@babel/types": "^7.0.0"
1070   },
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1077   "dependencies": {
1078     "@babel/types": "^7.28.2"
1079   },
1080 "node_modules/@types/estree": {
1081   "version": "1.0.8",
1082   "resolved": "https://registry.npmjs.org/@types/estree/-/estree-1.0.8.tgz",
1083   "integrity":
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1085   "license": "MIT"
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1093   "dependencies": {
1094     "@babel/core": "^7.28.4",
1095     "@babel/plugin-transform-react-jsx-self": "^7.27.1",
1096     "@babel/plugin-transform-react-jsx-source": "^7.27.1",
1097     "@rolldown/pluginutils": "1.0.0-beta.43",
1098     "@types/babel__core": "^7.20.5",
1099     "react-refresh": "^0.18.0"
1100   },
1101   "engines": {
1102     "node": ">=20.19.0 || >=22.12.0"
1103   },
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1105     "vite": "^4.2.0 || ^5.0.0 || ^6.0.0 || ^7.0.0"
1106   }
1107 },
1108 "node_modules/accepts": {
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1110   "resolved": "https://registry.npmjs.org/accepts/-/accepts-2.0.0.tgz",
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1113   "license": "MIT",
1114   "dependencies": {
1115     "mime-types": "^3.0.0",
1116     "negotiator": "^1.0.0"
1117   },
1118   "engines": {
1119     "node": ">= 0.6"
1120   }
1121 },
1122 "node_modules/ansi-regex": {
1123   "version": "5.0.1",

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1121     "resolved": "https://registry.npmjs.org/ansi-regex/-/ansi-regex-5.0.1.tgz",
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1136       },
1137       "engines": {
1138         "node": ">=8"
1139       },
1140       "funding": {
1141         "url": "https://github.com/chalk/ansi-styles?sponsor=1"
1142       }
1143     },
1144     "node_modules/baseline-browser-mapping": {
1145       "version": "2.8.23",
1146       "resolved":
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1150       "license": "Apache-2.0",
1151       "bin": {
1152         "baseline-browser-mapping": "dist/cli.js"
1153       }
1154     },
1155     "node_modules/body-parser": {
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1157       "resolved": "https://registry.npmjs.org/body-parser/-/body-parser-2.2.0.tgz",
1158       "integrity":
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1160       "license": "MIT",
1161       "dependencies": {
1162         "bytes": "^3.1.2",
1163         "content-type": "^1.0.5",
1164         "debug": "^4.4.0",
1165         "http-errors": "^2.0.0",
1166         "iconv-lite": "^0.6.3",
1167         "on-finished": "^2.4.1",
1168         "qs": "^6.14.0",
1169         "raw-body": "^3.0.0",
1170         "type-is": "^2.0.0"
1171       },
1172       "engines": {
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1174       }
1175     },
1176     "node_modules/browserslist": {
1177       "version": "4.27.0",
1178       "resolved": "https://registry.npmjs.org/browserslist/-/browserslist-4.27.0.tgz",
1179       "integrity":
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1181       "funding": [
1182         {
1183           "type": "opencollective",
1184           "url": "https://opencollective.com/browserslist"
1185         }
1186       ]
1187     }
1188   }
1189 }

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1180     },
1181     {
1182       "type": "tidelift",
1183       "url": "https://tidelift.com/funding/github/npm/browserslist"
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1185     {
1186       "type": "github",
1187       "url": "https://github.com/sponsors/ai"
1188     }
1189   ],
1190   "license": "MIT",
1191   "dependencies": {
1192     "baseline-browser-mapping": "^2.8.19",
1193     "caniuse-lite": "^1.0.30001751",
1194     "electron-to-chromium": "^1.5.238",
1195     "node-releases": "^2.0.26",
1196     "update-browserslist-db": "^1.1.4"
1197   },
1198   "bin": {
1199     "browserslist": "cli.js"
1200   },
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1203   }
1204 },
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1214 },
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1219   "integrity":
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1221   "license": "MIT",
1222   "dependencies": {
1223     "es-errors": "^1.3.0",
1224     "function-bind": "^1.1.2"
1225   },
1226   "engines": {
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1228   }
1229 },
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1232   "resolved": "https://registry.npmjs.org/call-bound/-/call-bound-1.0.4.tgz",
1233   "integrity":
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1235   "license": "MIT",
1236   "dependencies": {
1237     "call-bind-apply-helpers": "^1.0.2",
1238     "get-intrinsic": "^1.3.0"
1239   },
1240   "engines": {
1241     "node": ">= 0.4"
1242   }
1243 },
1244 "funding": {
1245   "url": "https://github.com/sponsors/ljharb"
1246 }

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1241     }
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1248     "funding": [
1249       {
1250         "type": "opencollective",
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1254         "type": "tidelift",
1255         "url": "https://tidelift.com/funding/github/npm/caniuse-lite"
1256       },
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1258         "type": "github",
1259         "url": "https://github.com/sponsors/ai"
1260       }
1261     ],
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1263   },
1264   "node_modules/chalk": {
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1266     "resolved": "https://registry.npmjs.org/chalk/-/chalk-4.1.2.tgz",
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1271       "ansi-styles": "^4.1.0",
1272       "supports-color": "^7.1.0"
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1277     "funding": {
1278       "url": "https://github.com/chalk/chalk?sponsor=1"
1279     }
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1286     "license": "MIT",
1287     "dependencies": {
1288       "has-flag": "^4.0.0"
1289     },
1290     "engines": {
1291       "node": ">=8"
1292     }
1293   },
1294   "node_modules/cliui": {
1295     "version": "8.0.1",
1296     "resolved": "https://registry.npmjs.org/cliui/-/cliui-8.0.1.tgz",
1297     "integrity":
1298     ↪ "sha512-BSeNnyus75C4//NQ9gQt1/csTXyo/8Sb+afLakzAptFuMsod9HFokGNudZpi/oQV73hnVK+sR+5PVRmd+Dr7YQ==",
1299     "license": "ISC",
1300     "dependencies": {
1301       "string-width": "^4.2.0",
1302       "strip-ansi": "^6.0.1",
1303       "wrap-ansi": "^7.0.0"
1304     },
1305     "engines": {

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1302     "node": ">=12"
1303   }
1304 },
1305 "node_modules/color-convert": {
1306   "version": "2.0.1",
1307   "resolved": "https://registry.npmjs.org/color-convert/-/color-convert-2.0.1.tgz",
1308   "integrity":
1309   ↪ "sha512-RRECPsj7iu/xb5oKYcsFHSppFNnsj/520VTRKb4zP5onXwVF3zVmmToNcOfGC+CRDpfK/U584fMg38ZHCaElKQ==",
1310   "license": "MIT",
1311   "dependencies": {
1312     "color-name": "~1.1.4"
1313   },
1314   "engines": {
1315     "node": ">=7.0.0"
1316   }
1317 },
1318 "node_modules/color-name": {
1319   "version": "1.1.4",
1320   "resolved": "https://registry.npmjs.org/color-name/-/color-name-1.1.4.tgz",
1321   "integrity":
1322   ↪ "sha512-d0y+3AuW3a2wNbZHIuMZpTcgjGuLU/uBL/ubcZF9OXbDo8ff408yVp5Bf0efS8uEoYo5q4Fx7dY90gQGXgAsQA==",
1323   "license": "MIT"
1324 },
1325 "node_modules/concurrently": {
1326   "version": "9.2.1",
1327   "resolved": "https://registry.npmjs.org/concurrently/-/concurrently-9.2.1.tgz",
1328   "integrity":
1329   ↪ "sha512-fsfr00MxV64Znoy8/l1vIjJHa29SZyyqPqQBwhiDcaW8wJc2W3XWV0Gx4M3oJBnv/zdUZIip1gDeS98GzP8Ng==",
1330   "license": "MIT",
1331   "dependencies": {
1332     "chalk": "4.1.2",
1333     "rxjs": "7.8.2",
1334     "shell-quote": "1.8.3",
1335     "supports-color": "8.1.1",
1336     "tree-kill": "1.2.2",
1337     "yargs": "17.7.2"
1338   },
1339   "bin": {
1340     "conc": "dist/bin/concurrently.js",
1341     "concurrently": "dist/bin/concurrently.js"
1342   },
1343   "engines": {
1344     "node": ">=18"
1345   },
1346   "funding": {
1347     "url": "https://github.com/open-cli-tools/concurrently?sponsor=1"
1348   }
1349 },
1350 "node_modules/content-disposition": {
1351   "version": "1.0.0",
1352   "resolved": "https://registry.npmjs.org/content-disposition/-/content-disposition-1.0.0.tgz",
1353   "integrity":
1354   ↪ "sha512-Au9nRL8VNUut/XSzbQA38+M78dzP4D+eqg3gFJHMIHYa3bg067xj1KxMUWj+VULbiZMowKngFFbKczUrNJ1mg==",
1355   "license": "MIT",
1356   "dependencies": {
1357     "safe-buffer": "5.2.1"
1358   },
1359   "engines": {
1360     "node": ">= 0.6"
1361   }
1362 },
1363 "node_modules/content-type": {
1364   "version": "1.0.5",
1365   "resolved": "https://registry.npmjs.org/content-type/-/content-type-1.0.5.tgz",

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1362     "integrity":
1363     ↪ "sha512-nTjqfcBFEipKdXCv4YDQWCfmcLZKm81ldF0pAopTvyrFGVbcR6P/VAAd5G7N+0tTr8QqiU0tFadD6FK4NtJw0A==",
1364     "license": "MIT",
1365     "engines": {
1366       "node": ">= 0.6"
1367     },
1368     "node_modules/convert-source-map": {
1369       "version": "2.0.0",
1370       "resolved": "https://registry.npmjs.org/convert-source-map/-/convert-source-map-2.0.0.tgz",
1371       "integrity":
1372     ↪ "sha512-Kvp459HrV2FEJ1Casi1Ku+MY3kash19TFykTz2xWmMeq6bk2NU3XXvfJ+Q61m0xktWwt+1HSYf3JZsTms3aRJg==",
1373       "license": "MIT"
1374     },
1375     "node_modules/cookie": {
1376       "version": "0.7.2",
1377       "resolved": "https://registry.npmjs.org/cookie/-/cookie-0.7.2.tgz",
1378       "integrity":
1379     ↪ "sha512-yki5XnKuf750l50uGTllt6kKILY4nQ1eNIQatoXEBYz5dWgnKqbnqmTrBE5B4N7lrmJKQ2ytWmiT02o0v6Ew/w==",
1380       "license": "MIT",
1381       "engines": {
1382         "node": ">= 0.6"
1383       }
1384     },
1385     "node_modules/cookie-signature": {
1386       "version": "1.2.2",
1387       "resolved": "https://registry.npmjs.org/cookie-signature/-/cookie-signature-1.2.2.tgz",
1388       "integrity":
1389     ↪ "sha512-D76uU73uLSXrD1UXF4KE2TMxVVwhsnCgfAyTg9k8P6KGZj lXKr0Le4dJQKI3Bxi5wjesZoFXJWElnWBjPZMbhg==",
1390       "license": "MIT",
1391       "engines": {
1392         "node": ">=6.6.0"
1393       }
1394     },
1395     "node_modules/cors": {
1396       "version": "2.8.5",
1397       "resolved": "https://registry.npmjs.org/cors/-/cors-2.8.5.tgz",
1398       "integrity":
1399     ↪ "sha512-KIHbLJqu73RGr/hnbr09uBeixNGuvSQjul/jdFvS/KFSIH1hWVd1ng7z0Hx+YrEfInLG7q4n6GHQ9cDtxv/P6g==",
1400       "license": "MIT",
1401       "dependencies": {
1402         "object-assign": "^4",
1403         "vary": "^1"
1404       },
1405       "engines": {
1406         "node": ">= 0.10"
1407       }
1408     },
1409     "node_modules/debug": {
1410       "version": "4.4.3",
1411       "resolved": "https://registry.npmjs.org/debug/-/debug-4.4.3.tgz",
1412       "integrity":
1413     ↪ "sha512-RGwwWnwQvkVfavKVt22FGLw+xYSdzARwm0ru6DhTVA3umU5hZc28V3k04stgYryrTlLpuvgI9GiiJltAjNbcqA==",
1414       "license": "MIT",
1415       "dependencies": {
1416         "ms": "^2.1.3"
1417       },
1418       "engines": {
1419         "node": ">=6.0"
1420       },
1421       "peerDependenciesMeta": {
1422         "supports-color": {
1423           "optional": true
1424         }
1425     }

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1421 },
1422 "node_modules/depd": {
1423   "version": "2.0.0",
1424   "resolved": "https://registry.npmjs.org/depd/-/depd-2.0.0.tgz",
1425   "integrity":
1426     ↪ "sha512-g7nH6P6dyDioJogAAGprGpCtVImJhpPk/roCzdb3fIh61/s/nPsfR6onyMwkCAR/0lC3yBC0lESvUoQEAssIrw==",
1427   "license": "MIT",
1428   "engines": {
1429     "node": ">= 0.8"
1430   },
1431 },
1432 "node_modules/dotenv": {
1433   "version": "17.2.3",
1434   "resolved": "https://registry.npmjs.org/dotenv/-/dotenv-17.2.3.tgz",
1435   "integrity":
1436     ↪ "sha512-JVUnt+DUIzu87TABbhPmNfVdBDt18BL0WjMUFJMSi/Qqg7NTYtabbvSNJG0J7afbRuv9D/lngizHtP7QyLQ+9w==",
1437   "license": "BSD-2-Clause",
1438   "engines": {
1439     "node": ">=12"
1440   },
1441   "funding": {
1442     "url": "https://dotenvx.com"
1443   },
1444 },
1445 "node_modules/dunder-proto": {
1446   "version": "1.0.1",
1447   "resolved": "https://registry.npmjs.org/dunder-proto/-/dunder-proto-1.0.1.tgz",
1448   "integrity":
1449     ↪ "sha512-KIN/nDJBQRcXw0MLVhZE9iQHmG68qAVIBg9CqmUYjmQIhgij9U5MFvrqkUL5FbtyyzZu0e0t0zdeRe4UY7ct+A==",
1450   "license": "MIT",
1451   "dependencies": {
1452     "call-bind-apply-helpers": "^1.0.1",
1453     "es-errors": "^1.3.0",
1454     "gopd": "^1.2.0"
1455   },
1456   "engines": {
1457     "node": ">= 0.4"
1458   },
1459 },
1460 "node_modules/ee-first": {
1461   "version": "1.1.1",
1462   "resolved": "https://registry.npmjs.org/ee-first/-/ee-first-1.1.1.tgz",
1463   "integrity":
1464     ↪ "sha512-WMwm9LhRUo+WUaRN+vRuETqG89IgZphVSNkdFgeb6sS/E40rDIN7t48CAewSHXc6C8lefD8KKfr5vY61brQlow==",
1465   "license": "MIT"
1466 },
1467 "node_modules/electron-to-chromium": {
1468   "version": "1.5.244",
1469   "resolved": "https://registry.npmjs.org/electron-to-chromium/-/electron-to-chromium-1.5.244.tgz",
1470   "integrity":
1471     ↪ "sha512-0szpBN7xZX4vWMPJwB9illkN/znA8M36GQqXi6Mny9axWxh0fJyZZJtSLQCPeFLHP2xK33BiWx9aIuIEXVCcw==",
1472   "license": "ISC"
1473 },
1474 "node_modules/emoji-regex": {
1475   "version": "8.0.0",
1476   "resolved": "https://registry.npmjs.org/emoji-regex/-/emoji-regex-8.0.0.tgz",
1477   "integrity":
1478     ↪ "sha512-MSsjYzcwN0A0ewAHPz0MxpYFvwg6yjj1NG3xteoqz644VCo/RPgnr1/GGt+ic3iJTzQ8Eu3TdM14SawnVUmGE6A==",
1479   "license": "MIT"
1480 },
1481 "node_modules/encodeurl": {
1482   "version": "2.0.0",
1483   "resolved": "https://registry.npmjs.org/encodeurl/-/encodeurl-2.0.0.tgz",
1484   "integrity":
1485     ↪ "sha512-Q0n9HRi4m6JuGIV1eFlmVJB7ZEVxu93IrMyiMsGC0lrMJMwzRgx6WGuqyfQgZVb31vhGgXnfmPNNXmxn0kRBrg==",

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1479     "license": "MIT",
1480     "engines": {
1481       "node": ">= 0.8"
1482     }
1483   },
1484   "node_modules/es-define-property": {
1485     "version": "1.0.1",
1486     "resolved": "https://registry.npmjs.org/es-define-property/-/es-define-property-1.0.1.tgz",
1487     "integrity":
1488       ↪ "sha512-e3nRfgfUz4rNGL232gUgX06QNYyez04KdjFrF+LTRo0Xmr0gFKDg4BCdsjW8EnT69eqdYGmRpJwiPVYNrCaw3g==",
1489     "license": "MIT",
1490     "engines": {
1491       "node": ">= 0.4"
1492     }
1493   },
1494   "node_modules/es-errors": {
1495     "version": "1.3.0",
1496     "resolved": "https://registry.npmjs.org/es-errors/-/es-errors-1.3.0.tgz",
1497     "integrity":
1498       ↪ "sha512-Zf5H2Kxt2xjTvbJvP2ZWLEICxA6j+hAmMzIlypy4xcBg1vKVnx89Wy0Gb5+kf5cwCVFFzdCFh2XSCFNULS6csw==",
1499     "license": "MIT",
1500     "engines": {
1501       "node": ">= 0.4"
1502     }
1503   },
1504   "node_modules/es-object-atoms": {
1505     "version": "1.1.1",
1506     "resolved": "https://registry.npmjs.org/es-object-atoms/-/es-object-atoms-1.1.1.tgz",
1507     "integrity":
1508       ↪ "sha512-FGgH2h8zKNim9lj7dankFPcICIK9Cp5bm+c2gQSYePhpaG5+esrL0DihIorn+Pe6FGJzWhXQotPv73jTaldXA==",
1509     "license": "MIT",
1510     "dependencies": {
1511       "es-errors": "^1.3.0"
1512     },
1513     "engines": {
1514       "node": ">= 0.4"
1515     }
1516   },
1517   "node_modules/esbuild": {
1518     "version": "0.25.12",
1519     "resolved": "https://registry.npmjs.org/esbuild/-/esbuild-0.25.12.tgz",
1520     "integrity":
1521       ↪ "sha512-bbPBYrtZbkt60s6FiTLCTFvxq4tt3JKall1vRwshA3fdVztsLAatFaZobhkBC8/BrPetoa0oksYoKXoG4ryJg==",
1522     "hasInstallScript": true,
1523     "license": "MIT",
1524     "bin": {
1525       "esbuild": "bin/esbuild"
1526     },
1527     "engines": {
1528       "node": ">=18"
1529     },
1530     "optionalDependencies": {
1531       "@esbuild/aix-ppc64": "0.25.12",
1532       "@esbuild/android-arm": "0.25.12",
1533       "@esbuild/android-arm64": "0.25.12",
1534       "@esbuild/android-x64": "0.25.12",
1535       "@esbuild/darwin-arm64": "0.25.12",
1536       "@esbuild/darwin-x64": "0.25.12",
1537       "@esbuild/freebsd-arm64": "0.25.12",
1538       "@esbuild/freebsd-x64": "0.25.12",
1539       "@esbuild/linux-arm": "0.25.12",
1540       "@esbuild/linux-arm64": "0.25.12",
1541       "@esbuild/linux-ia32": "0.25.12",
1542       "@esbuild/linux-loong64": "0.25.12",
1543       "@esbuild/linux-mips64el": "0.25.12",

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1540     "@esbuild/linux-ppc64": "0.25.12",
1541     "@esbuild/linux-riscv64": "0.25.12",
1542     "@esbuild/linux-s390x": "0.25.12",
1543     "@esbuild/linux-x64": "0.25.12",
1544     "@esbuild/netbsd-arm64": "0.25.12",
1545     "@esbuild/netbsd-x64": "0.25.12",
1546     "@esbuild/openbsd-arm64": "0.25.12",
1547     "@esbuild/openbsd-x64": "0.25.12",
1548     "@esbuild/openharmony-arm64": "0.25.12",
1549     "@esbuild/sunos-x64": "0.25.12",
1550     "@esbuild/win32-arm64": "0.25.12",
1551     "@esbuild/win32-ia32": "0.25.12",
1552     "@esbuild/win32-x64": "0.25.12"
1553   }
1554 },
1555 "node_modules/escalade": {
1556   "version": "3.2.0",
1557   "resolved": "https://registry.npmjs.org/escalade/-/escalade-3.2.0.tgz",
1558   "integrity":
1559     ↪ "sha512-WUj2qlxaQt04g6Pq5c29GTcWGDyd8itL8zTlpgECz3JesAii0Kotd8JU6otB3PACgG6xkJUyVhboMS+bje/jA==",
1560   "license": "MIT",
1561   "engines": {
1562     "node": ">=6"
1563   }
1564 },
1565 "node_modules/escape-html": {
1566   "version": "1.0.3",
1567   "resolved": "https://registry.npmjs.org/escape-html/-/escape-html-1.0.3.tgz",
1568   "integrity":
1569     ↪ "sha512-NiSupZ40UeGwr68lGieym/ksIZMJodUG0SCZ/FSnTxcrekbvqrgdUxLJ0MpijaKZVjAJrWrGs/6Jy80Muyj9ow=",
1570   "license": "MIT"
1571 },
1572 "node_modules/etag": {
1573   "version": "1.8.1",
1574   "resolved": "https://registry.npmjs.org/etag/-/etag-1.8.1.tgz",
1575   "integrity":
1576     ↪ "sha512-aIL5Fx7mawVa300al2BnEE4iNvo1qETxLrPI/o05L7z6go7fCw1J6EQmbK4FmJ2AS7kgVF/KEZWufBfdC1McPg=",
1577   "license": "MIT",
1578   "engines": {
1579     "node": ">= 0.6"
1580   }
1581 },
1582 "node_modules/express": {
1583   "version": "5.1.0",
1584   "resolved": "https://registry.npmjs.org/express/-/express-5.1.0.tgz",
1585   "integrity":
1586     ↪ "sha512-DT9ck5YIRU+8GYzzU5KT3eHGA5iL+1Zd0Eut0mTE9Dtk+Tvuzd23VBU+ec7HPNSTxXY055gPV/hq4pSBJDjFpA=",
1587   "license": "MIT",
1588   "dependencies": {
1589     "accepts": "^2.0.0",
1590     "body-parser": "^2.2.0",
1591     "content-disposition": "^1.0.0",
1592     "content-type": "^1.0.5",
1593     "cookie": "^0.7.1",
1594     "cookie-signature": "^1.2.1",
1595     "debug": "^4.4.0",
1596     "encodeurl": "^2.0.0",
1597     "escape-html": "^1.0.3",
1598     "etag": "^1.8.1",
1599     "finalhandler": "^2.1.0",
1600     "fresh": "^2.0.0",
1601     "http-errors": "^2.0.0",
1602     "merge-descriptors": "^2.0.0",
1603     "mime-types": "^3.0.0",
1604     "on-finished": "^2.4.1",

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1601     "once": "^1.4.0",
1602     "parseurl": "^1.3.3",
1603     "proxy-addr": "^2.0.7",
1604     "qs": "^6.14.0",
1605     "range-parser": "^1.2.1",
1606     "router": "^2.2.0",
1607     "send": "^1.1.0",
1608     "serve-static": "^2.2.0",
1609     "statuses": "^2.0.1",
1610     "type-is": "^2.0.1",
1611     "vary": "^1.1.2"
1612   },
1613   "engines": {
1614     "node": ">= 18"
1615   },
1616   "funding": {
1617     "type": "opencollective",
1618     "url": "https://opencollective.com/express"
1619   }
1620 },
1621 "node_modules/fdir": {
1622   "version": "6.5.0",
1623   "resolved": "https://registry.npmjs.org/fdir/-/fdir-6.5.0.tgz",
1624   "integrity":
1625     ↪ "sha512-tIbYtZbuc0s0BRGqPJkshJUYdL+SDH7dVM8ggy+ERp3WAUjLEFJE+02kanyHtwjW0nwrKYBiwAmM0p4kLJAnXg==",
1626   "license": "MIT",
1627   "engines": {
1628     "node": ">=12.0.0"
1629   },
1630   "peerDependencies": {
1631     "picomatch": "^3 || ^4"
1632   },
1633   "peerDependenciesMeta": {
1634     "picomatch": {
1635       "optional": true
1636     }
1637   },
1638   "node_modules/finalhandler": {
1639     "version": "2.1.0",
1640     "resolved": "https://registry.npmjs.org/finalhandler/-/finalhandler-2.1.0.tgz",
1641     "integrity":
1642       ↪ "sha512-/t88Ty3d5JWQbwYga0GCCYfXRwV1+be02WqYYlL6h0lEiUAMPM8o8qKG001YIk0Hzka2up08wvgYD0mDiI+q3Q==",
1643     "license": "MIT",
1644     "dependencies": {
1645       "debug": "^4.4.0",
1646       "encodeurl": "^2.0.0",
1647       "escape-html": "^1.0.3",
1648       "on-finished": "^2.4.1",
1649       "parseurl": "^1.3.3",
1650       "statuses": "^2.0.1"
1651     },
1652     "engines": {
1653       "node": ">= 0.8"
1654     }
1655   },
1656   "node_modules/forwarded": {
1657     "version": "0.2.0",
1658     "resolved": "https://registry.npmjs.org/forwarded/-/forwarded-0.2.0.tgz",
1659     "integrity":
1660       ↪ "sha512-buRG0fpBtRHSTCOASe6hD258tEubFoRLb4ZNA6NxMVHNw2g0cwHo9wyablzMz0A5z9xA9L1KNjk/Nt6MT9aYow==",
1661     "license": "MIT",
1662     "engines": {
1663       "node": ">= 0.6"
1664     }
1665   }

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1663 },
1664 "node_modules/fresh": {
1665   "version": "2.0.0",
1666   "resolved": "https://registry.npmjs.org/fresh/-/fresh-2.0.0.tgz",
1667   "integrity":
1668     ↪ "sha512-Rx/WycZ60H0aqLKAi6cHRKKI7zxWbJ31MhntmtwMoaTeF7XFH9hhBp8vITaMidfljRQ6eYWCKkaTK+ykVJHP2A==",
1669   "license": "MIT",
1670   "engines": {
1671     "node": ">= 0.8"
1672   },
1673 },
1674 "node_modules/fsevents": {
1675   "version": "2.3.3",
1676   "resolved": "https://registry.npmjs.org/fsevents/-/fsevents-2.3.3.tgz",
1677   "integrity":
1678     ↪ "sha512-5xoDfX+fL7faATnagmWPpbFtwh/R77WmMMqHGS65C3vvB0YHrgF+B1YmZ3441tMj5n63k0212XNoJwzlhffQw==",
1679   "hasInstallScript": true,
1680   "license": "MIT",
1681   "optional": true,
1682   "os": [
1683     "darwin"
1684   ],
1685   "engines": {
1686     "node": "^8.16.0 || ^10.6.0 || >=11.0.0"
1687   },
1688 },
1689 "node_modules/function-bind": {
1690   "version": "1.1.2",
1691   "resolved": "https://registry.npmjs.org/function-bind/-/function-bind-1.1.2.tgz",
1692   "integrity":
1693     ↪ "sha512-7X8xS4K1XZkg0cl5t6bRvwYp8MJv0cD3odSx4yP4W3xT7AdT8WKL99yX3o5rU35k8jt4l33R0vYaEOwHAQ==",
1694   "license": "MIT",
1695   "funding": {
1696     "url": "https://github.com/sponsors/ljharb"
1697   },
1698 },
1699 "node_modules/gensync": {
1700   "version": "1.0.0-beta.2",
1701   "resolved": "https://registry.npmjs.org/gensync/-/gensync-1.0.0-beta.2.tgz",
1702   "integrity":
1703     ↪ "sha512-3hN7NaskYvMDLQY55gnW3NQ+mesEAepTqlg+VEbj7zzqEMBVNhzcGYeqFo/Tlyz6eQiFcp1HcsCZ0+nGgS8zg==",
1704   "license": "MIT",
1705   "engines": {
1706     "node": ">=6.9.0"
1707   },
1708 },
1709 "node_modules/get-caller-file": {
1710   "version": "2.0.5",
1711   "resolved": "https://registry.npmjs.org/get-caller-file/-/get-caller-file-2.0.5.tgz",
1712   "integrity":
1713     ↪ "sha512-Da6U6xviY0/GsS/tYJw2vNp0orOa8g/GoTqrP81cqB6LdIteSSaQQFxXftVUxJ7cuT4xN0QdhxkloJwvwN0A==",
1714   "license": "ISC",
1715   "engines": {
1716     "node": "6.* || 8.* || >= 10.*"
1717   },
1718 },
1719 "node_modules/get-intrinsic": {
1720   "version": "1.3.0",
1721   "resolved": "https://registry.npmjs.org/get-intrinsic/-/get-intrinsic-1.3.0.tgz",
1722   "integrity":
1723     ↪ "sha512-9fV6YrQd7djX8fOiQdR2BRH3UOuFz4lpWZM5+HgS/8N136xOIju7+5WRq/MLX7KUqlUypZvO39Iz/PlXdyg==",
1724   "license": "MIT",
1725   "dependencies": {
1726     "call-bind-apply-helpers": "^1.0.2",
1727     "es-define-property": "^1.0.1",

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1722     "es-errors": "^1.3.0",
1723     "es-object-atoms": "^1.1.1",
1724     "function-bind": "^1.1.2",
1725     "get-proto": "^1.0.1",
1726     "gopd": "^1.2.0",
1727     "has-symbols": "^1.1.0",
1728     "hasown": "^2.0.2",
1729     "math-intrinsics": "^1.1.0"
1730   },
1731   "engines": {
1732     "node": ">= 0.4"
1733   },
1734   "funding": {
1735     "url": "https://github.com/sponsors/ljharb"
1736   }
1737 },
1738 "node_modules/get-proto": {
1739   "version": "1.0.1",
1740   "resolved": "https://registry.npmjs.org/get-proto/-/get-proto-1.0.1.tgz",
1741   "integrity":
1742     ↪ "sha512-sTSfBjoXBp89JvIKIefqw7U2CCebesc74kiY6awiGogKtoSgbgjYE/G/+l9sF3MWFpNc9Ico0C40DfKHfxFmp0g=",
1743   "license": "MIT",
1744   "dependencies": {
1745     "dunder-proto": "^1.0.1",
1746     "es-object-atoms": "^1.0.0"
1747   },
1748   "engines": {
1749     "node": ">= 0.4"
1750   },
1751   "node_modules/gopd": {
1752     "version": "1.2.0",
1753     "resolved": "https://registry.npmjs.org/gopd/-/gopd-1.2.0.tgz",
1754     "integrity":
1755       ↪ "sha512-ZUKRh6/kUFoAiTAAtYPZJ3hw9wNxx+BIB0ijnlg9PnrJsCcSjs1wyD6vJpaYtgnzDrKYRSqf3006Rfa93xsRg=",
1756     "license": "MIT",
1757     "engines": {
1758       "node": ">= 0.4"
1759     },
1760     "funding": {
1761       "url": "https://github.com/sponsors/ljharb"
1762     }
1763   },
1764   "node_modules/has-flag": {
1765     "version": "4.0.0",
1766     "resolved": "https://registry.npmjs.org/has-flag/-/has-flag-4.0.0.tgz",
1767     "integrity":
1768       ↪ "sha512-EykjT/Q1KjTWctppgIAgfs00tKVuZUjhgMr17kqTumMl6Afv3EISleU7qZUzoXDFTAHTDC4N0oG/ZxU3EvlMPQ=",
1769     "license": "MIT",
1770     "engines": {
1771       "node": ">=8"
1772     }
1773   },
1774   "node_modules/has-symbols": {
1775     "version": "1.1.0",
1776     "resolved": "https://registry.npmjs.org/has-symbols/-/has-symbols-1.1.0.tgz",
1777     "integrity":
1778       ↪ "sha512-1cDNdwJ2Jaohmb3sg40mKaMBwuC48sYni5HUw2DvsC8LjGTLK9h+eb1X6Ryu0He4hT0ULCW68iomhjUoKUqlPQ=",
1779     "license": "MIT",
1780     "engines": {
1781       "node": ">= 0.4"
1782     },
1783     "funding": {
1784       "url": "https://github.com/sponsors/ljharb"
1785     }
1786   }

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1783 },
1784 "node_modules/hasown": {
1785   "version": "2.0.2",
1786   "resolved": "https://registry.npmjs.org/hasown/-/hasown-2.0.2.tgz",
1787   "integrity":
1788     ↪ "sha512-0hJU9SCPvmMzIBdZFqNPXWa6dqh7WdH0cII9y+CyS8rG3nL48Bclra9HmKhVVUHyPWNH5Y7xDwAB7bfgSjkUMQ==",
1789   "license": "MIT",
1790   "dependencies": {
1791     "function-bind": "^1.1.2"
1792   },
1793   "engines": {
1794     "node": ">= 0.4"
1795   },
1796   "node_modules/http-errors": {
1797     "version": "2.0.0",
1798     "resolved": "https://registry.npmjs.org/http-errors/-/http-errors-2.0.0.tgz",
1799     "integrity":
1800       ↪ "sha512-FtwrG/euBzaEjYeRqOgly7G0qviiXoJWnvEH2Z1plBdXgbyjv34pHTSb9zoeHMyDy33+Dwy5Wt9Wo+TURtOYSQ==",
1801     "license": "MIT",
1802     "dependencies": {
1803       "depd": "2.0.0",
1804       "inherits": "2.0.4",
1805       "setprototypeof": "1.2.0",
1806       "statuses": "2.0.1",
1807       "toidentifier": "1.0.1"
1808     },
1809     "engines": {
1810       "node": ">= 0.8"
1811     },
1812     "node_modules/http-errors/node_modules/statuses": {
1813       "version": "2.0.1",
1814       "resolved": "https://registry.npmjs.org/statuses/-/statuses-2.0.1.tgz",
1815       "integrity":
1816         ↪ "sha512-RwNA9Z/7PrK06rYLIzFMlaF+l73iwpzsqRiFgbMLbTcLD6c0ao82TaWefPXQvB2f0C4AjuYSEndS7N/mTCbkdQ==",
1817       "license": "MIT",
1818       "engines": {
1819         "node": ">= 0.8"
1820       },
1821       "node_modules/iconv-lite": {
1822         "version": "0.6.3",
1823         "resolved": "https://registry.npmjs.org/iconv-lite/-/iconv-lite-0.6.3.tgz",
1824         "integrity":
1825           ↪ "sha512-4fCk79wshMdzMp2rH06qWrJE4iolqLhCUH+0iuIgU++RB0+94NLDL81at07GX55uUKueo0txHNTvEyI6D7WdMw==",
1826         "license": "MIT",
1827         "dependencies": {
1828           "safer-buffer": ">= 2.1.2 < 3.0.0"
1829         },
1830         "engines": {
1831           "node": ">=0.10.0"
1832         },
1833         "node_modules/inherits": {
1834           "version": "2.0.4",
1835           "resolved": "https://registry.npmjs.org/inherits/-/inherits-2.0.4.tgz",
1836           "integrity":
1837             ↪ "sha512-k/vGaX4/Yla3WzyMCvTQ0XyeIHvq0KtnqBduzThpzpQZzAskKMhZ2K+EnBiSM9zGSoIFeMpXKxa4dYeZIQqewQ==",
1838           "license": "ISC"
1839         },
1840         "node_modules/ipaddr.js": {
1841           "version": "1.9.1",
1842           "resolved": "https://registry.npmjs.org/ipaddr.js/-/ipaddr.js-1.9.1.tgz",

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1842     "integrity":
1843     ↪ "sha512-0KI/607xoxSToH7GjN1FfSbLoU0+btTicjsQSWQlh/hZyK8KpmMf7uYwPW3R+akZ6R/w18ZLXSHBYxiYUP03g==",
1844     "license": "MIT",
1845     "engines": {
1846       "node": ">= 0.10"
1847     },
1848     "node_modules/is-fullwidth-code-point": {
1849       "version": "3.0.0",
1850       "resolved":
1851       ↪ "https://registry.npmjs.org/is-fullwidth-code-point/-/is-fullwidth-code-point-3.0.0.tgz",
1852       "integrity":
1853       ↪ "sha512-zymm5+u+sCsSwyD9qNaejV3DFvhCKclKdizYaJUuHA83RLjb7nSuGnddCHGv0hk+KY7BMAlsWeK4Ueg6EV6XQg==",
1854       "license": "MIT",
1855       "engines": {
1856         "node": ">=8"
1857       }
1858     },
1859     "node_modules/is-promise": {
1860       "version": "4.0.0",
1861       "resolved": "https://registry.npmjs.org/is-promise/-/is-promise-4.0.0.tgz",
1862       "integrity":
1863       ↪ "sha512-hvpoI6korhJMnej285dSg6nu1+e6uxs7zG3BYAm5byqDsgJNwwxzM6z6iZiAgQR4TJ30JmBT0wqZUw3WlyH3AQ==",
1864       "license": "MIT"
1865     },
1866     "node_modules/js-tokens": {
1867       "version": "4.0.0",
1868       "resolved": "https://registry.npmjs.org/js-tokens/-/js-tokens-4.0.0.tgz",
1869       "integrity":
1870       ↪ "sha512-38cS8d68BdM3q8cH8evG941S5Sm7pH4IYDvH7k69kPHBpH7KzKo68+U6dMAA7G3IS8HjIqQhP/2Z1S9Ug==",
1871       "license": "MIT"
1872     },
1873     "node_modules/jstsc": {
1874       "version": "3.1.0",
1875       "resolved": "https://registry.npmjs.org/jstsc/-/jstsc-3.1.0.tgz",
1876       "integrity":
1877       ↪ "sha512-/sM3d02F0zXjKQhJuo0Q173wf2K0o8t4I8vHy6lF9p0Up7bKT0/NHE8fPX23PwfhnkyfqnC2xRx0nVw5XuGIaA==",
1878       "license": "MIT",
1879       "bin": {
1880         "jstsc": "bin/jstsc"
1881       },
1882       "engines": {
1883         "node": ">=6"
1884       }
1885     },
1886     "node_modules/json5": {
1887       "version": "2.2.3",
1888       "resolved": "https://registry.npmjs.org/json5/-/json5-2.2.3.tgz",
1889       "integrity":
1890       ↪ "sha512-Xm0We7eyHYH14cLdVPoyg+G0H3rYX++KpzrylJwSW98t3Nk+U8X0l8FWK0gwtzdb8lXGf6zYwDUzeHMWfxasyg==",
1891       "license": "MIT",
1892       "bin": {
1893         "json5": "lib/cli.js"
1894       },
1895       "engines": {
1896         "node": ">=6"
1897       }
1898     },
1899     "node_modules/lru-cache": {
1900       "version": "5.1.1",
1901       "resolved": "https://registry.npmjs.org/lru-cache/-/lru-cache-5.1.1.tgz",
1902       "integrity":
1903       ↪ "sha512-KwNLR6UowVNltszNH7iVta48Fr787eG53be6ze7sfW0bKOX5A4JW4sGEE34SS15ZqhlId37d1eU1kHx3umY= ",
1904       "license": "ISC",
1905       "dependencies": {

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1899     "yallist": "^3.0.2"
1900   }
1901 },
1902 "node_modules/lucide-react": {
1903   "version": "0.552.0",
1904   "resolved": "https://registry.npmjs.org/lucide-react/-/lucide-react-0.552.0.tgz",
1905   "integrity":
1906   ↪ "sha512-g9WCjmfwbexSnZE+2cl21PCfX0cqngGeWeMTNA0GEfpPbm/ZF4YIq77Z8qWrxbu660EKuLB4nSLggoKnCb+isw==",
1907   "license": "ISC",
1908   "peerDependencies": {
1909     "react": "^16.5.1 || ^17.0.0 || ^18.0.0 || ^19.0.0"
1910   }
1911 },
1912 "node_modules/math-intrinsics": {
1913   "version": "1.1.0",
1914   "resolved": "https://registry.npmjs.org/math-intrinsics/-/math-intrinsics-1.1.0.tgz",
1915   "integrity":
1916   ↪ "sha512-IXtbwEk5HTPyEwyKX6hGkYXxM9nbj64B+ilVJnC/R6B0pH5G4V3b0pVbL7DBj4tkhBAppbQUlf6F6Xl9LHu1g==",
1917   "license": "MIT",
1918   "engines": {
1919     "node": ">= 0.4"
1920   }
1921 },
1922 "node_modules/media-typer": {
1923   "version": "1.1.0",
1924   "resolved": "https://registry.npmjs.org/media-typer/-/media-typer-1.1.0.tgz",
1925   "integrity":
1926   ↪ "sha512-aisnrDP4GNe06UcKFnV5bfMNPBUw4jsLGaWwWfnH3v02GnBuXX2MCVn5RbrWo0j3pczUilYblq7fQ7Nw2t5XKw==",
1927   "license": "MIT",
1928   "engines": {
1929     "node": ">= 0.8"
1930   }
1931 },
1932 "node_modules/merge-descriptors": {
1933   "version": "2.0.0",
1934   "resolved": "https://registry.npmjs.org/merge-descriptors/-/merge-descriptors-2.0.0.tgz",
1935   "integrity":
1936   ↪ "sha512-Snk314V5ayFLhp3fkUREub6WtjBfPdCPY1Ln8/8munuLuiYhsABgBVWsozAG+MWMbVEvcdcpbi9R7ww22l9Q3g==",
1937   "license": "MIT",
1938   "engines": {
1939     "node": ">=18"
1940   },
1941   "funding": {
1942     "url": "https://github.com/sponsors/sindresorhus"
1943   }
1944 },
1945 "node_modules/mime-db": {
1946   "version": "1.54.0",
1947   "resolved": "https://registry.npmjs.org/mime-db/-/mime-db-1.54.0.tgz",
1948   "integrity":
1949   ↪ "sha512-aU5EJuIN2WDemCcAp2vFBfp/m4EAhWJnUNSSw0ixs7/kXbd6Pg64EmwJkNdFhB8awt1sH2CTXrLxo/iAGV3oPQ==",
1950   "license": "MIT",
1951   "engines": {
1952     "node": ">= 0.6"
1953   }
1954 },
1955 "node_modules/mime-types": {
1956   "version": "3.0.1",
1957   "resolved": "https://registry.npmjs.org/mime-types/-/mime-types-3.0.1.tgz",
1958   "integrity":
1959   ↪ "sha512-xRc4oEhT6eaBpU1XF7Ajp0FD+xQmXNB50VKwp4tqCuBpHLS/ZbBDrc07mYTDqVMg6PfxUjjNp8506Cd2Z/5HWA==",
1960   "license": "MIT",
1961   "dependencies": {
1962     "mime-db": "^1.54.0"
1963   }
1964 },

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1958     "engines": {
1959       "node": ">= 0.6"
1960     }
1961   },
1962   "node_modules/ms": {
1963     "version": "2.1.3",
1964     "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.3.tgz",
1965     "integrity":
1966       ↪ "sha512-6FlzubTLZG3J2a/NVCAleEhJzq5oxghyACU9yYXvcLsvoVaHJq/s5xXI6/XXP6tz7R9xA0tHnSO/tXtF3WRT1A==",
1967     "license": "MIT"
1968   },
1969   "node_modules/nanoid": {
1970     "version": "3.3.11",
1971     "resolved": "https://registry.npmjs.org/nanoid/-/nanoid-3.3.11.tgz",
1972     "integrity":
1973       ↪ "sha512-N8SpfPUun1bK+PMYW8qSwdl9U+wwNWI4QKx0YDy9JAro3WMX7p20eVRF9v+347pnakNevPmiHhNmZ2HbFA76w==",
1974     "funding": [
1975       {
1976         "type": "github",
1977         "url": "https://github.com/sponsors/ai"
1978       }
1979     ],
1980     "license": "MIT",
1981     "bin": {
1982       "nanoid": "bin/nanoid.cjs"
1983     },
1984     "engines": {
1985       "node": "^10 || ^12 || ^13.7 || ^14 || >=15.0.1"
1986     }
1987   },
1988   "node_modules/negotiator": {
1989     "version": "1.0.0",
1990     "resolved": "https://registry.npmjs.org/negotiator/-/negotiator-1.0.0.tgz",
1991     "integrity":
1992       ↪ "sha512-80fs/AUQh8MaEcrlq5x0X0CQ9ypTF5dl78mjLMNf0K08fzpgTHQRQPbxcPlEtIw0yRpbs+Zo/3r+5WRby7u3Gg==",
1993     "license": "MIT",
1994     "engines": {
1995       "node": ">= 0.6"
1996     }
1997   },
1998   "node_modules/node-releases": {
1999     "version": "2.0.27",
2000     "resolved": "https://registry.npmjs.org/node-releases/-/node-releases-2.0.27.tgz",
2001     "integrity":
2002       ↪ "sha512-nmh3lCkYZ3grZvqcCH+fjmQ7X+H00eZgP400ierEaAptX4XofMh5kwNbWh7lBduUzCcV/8kZ+NDLCwm2iorI1A==",
2003     "license": "MIT"
2004   },
2005   "node_modules/object-assign": {
2006     "version": "4.1.1",
2007     "resolved": "https://registry.npmjs.org/object-assign/-/object-assign-4.1.1.tgz",
2008     "integrity":
2009       ↪ "sha512-rJgTQnkUnH1sFw8yT6VSU3zD3sWmu6sZhIseY8VX+GRu3P6F7Fu+JND0XfklElbLJSnc3FUQHVe4cU5hj+BcUg==",
2010     "license": "MIT",
2011     "engines": {
2012       "node": ">=0.10.0"
2013     }
2014   },
2015   "node_modules/object-inspect": {
2016     "version": "1.13.4",
2017     "resolved": "https://registry.npmjs.org/object-inspect/-/object-inspect-1.13.4.tgz",
2018     "integrity":
2019       ↪ "sha512-W67iFtLLgPd1XUHzbNC2WmBj63oBC4Z9zkDY2Wf3td7/X1IbC/Ho3bkU/hXvBIb8Fem3KhlWtSjLpF4Yh46w==",
2020     "license": "MIT",
2021     "engines": {
2022       "node": ">= 0.4"
2023     }
2024   }
2025 }

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2017     },
2018     "funding": {
2019       "url": "https://github.com/sponsors/ljharb"
2020     }
2021   },
2022   "node_modules/on-finished": {
2023     "version": "2.4.1",
2024     "resolved": "https://registry.npmjs.org/on-finished/-/on-finished-2.4.1.tgz",
2025     "integrity":
2026       ↪ "sha512-OV3c58R531mD8N3Hh3tHz3+62yG1K4Ft5B4sQDpTj0v55StHSz1F9P3d9BpdqQ+YYqS8qg+Kz59Lgwmw==",
2027     "license": "MIT",
2028     "dependencies": {
2029       "ee-first": "1.1.1"
2030     },
2031     "engines": {
2032       "node": ">= 0.8"
2033     }
2034   },
2035   "node_modules/once": {
2036     "version": "1.4.0",
2037     "resolved": "https://registry.npmjs.org/once/-/once-1.4.0.tgz",
2038     "integrity":
2039       ↪ "sha512-lNaJgI+2Q5URQBkccEKTQ0PaXDUxNZZELQTY0MFUAuaEqe1E+Nyvgdz/aIyNi6Z9Mz05dv1H8n58/GELp3+w==",
2040     "license": "ISC",
2041     "dependencies": {
2042       "wrappy": "1"
2043     }
2044   },
2045   "node_modules/parseurl": {
2046     "version": "1.3.3",
2047     "resolved": "https://registry.npmjs.org/parseurl/-/parseurl-1.3.3.tgz",
2048     "integrity":
2049       ↪ "sha512-Ciye0xFT/JZyN5m0z9PfwXw4SCBJ6Syg1DpL0wqjLhDEGGBP1GnsUVEL0p63hoG1fcj3fHynXi9NY04nWOL+q0==",
2050     "license": "MIT",
2051     "engines": {
2052       "node": ">= 0.8"
2053     }
2054   },
2055   "node_modules/path-to-regexp": {
2056     "version": "8.3.0",
2057     "resolved": "https://registry.npmjs.org/path-to-regexp/-/path-to-regexp-8.3.0.tgz",
2058     "integrity":
2059       ↪ "sha512-7jdwVIRtsP8MYpdXS0S0YdD0Du+q0oF/AEPit88PccFrZCzx41oxku1jD88hZBwbNUIEfpqvuhjFaMAqMTWnA==",
2060     "license": "MIT",
2061     "funding": {
2062       "type": "opencollective",
2063       "url": "https://opencollective.com/express"
2064     }
2065   },
2066   "node_modules/picocolors": {
2067     "version": "1.1.1",
2068     "resolved": "https://registry.npmjs.org/picocolors/-/picocolors-1.1.1.tgz",
2069     "integrity":
2070       ↪ "sha512-xceH2snhtb5M9liqDsmEw56le376mTZkEX/jEb/RxNFyegNul7eNs1CXP9FDj/Lcu0X8KEyMceP2ntpaHrDEVA==",
2071     "license": "ISC"
2072   },
2073   "node_modules/picomatch": {
2074     "version": "4.0.3",
2075     "resolved": "https://registry.npmjs.org/picomatch/-/picomatch-4.0.3.tgz",
2076     "integrity":
2077       ↪ "sha512-5gVt57Yc4+UvS1sHh+P6osMVMzF4QA0KmHqG0TfMOMCpaIYR1MkPyJ4gWZ9ZpXbR21DKtaYlPDUJDtZsA==",
2078     "license": "MIT",
2079     "engines": {
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2081     }
2082   },

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2076     "funding": {
2077       "url": "https://github.com/sponsors/jonschlinkert"
2078     }
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2080   "node_modules/postcss": {
2081     "version": "8.5.6",
2082     "resolved": "https://registry.npmjs.org/postcss/-/postcss-8.5.6.tgz",
2083     "integrity":
2084     ↪ "sha512-3YbilitAuWAP9s0r1UQ2J4n5Y0G05bJkpUI00/bI9MhwmD70S5aTWbXGBwxHreIT+XM1k6dM0pk+SwNkpTRN7Pg==",
2085     "funding": [
2086       {
2087         "type": "opencollective",
2088         "url": "https://opencollective.com/postcss/"
2089       },
2090       {
2091         "type": "tidelift",
2092         "url": "https://tidelift.com/funding/github/npm/postcss"
2093       },
2094       {
2095         "type": "github",
2096         "url": "https://github.com/sponsors/ai"
2097       }
2098     ],
2099     "license": "MIT",
2100     "dependencies": {
2101       "nanoid": "^3.3.11",
2102       "picocolors": "^1.1.1",
2103       "source-map-js": "^1.2.1"
2104     },
2105     "engines": {
2106       "node": "^10 || ^12 || >=14"
2107     }
2108   },
2109   "node_modules/proxy-addr": {
2110     "version": "2.0.7",
2111     "resolved": "https://registry.npmjs.org/proxy-addr/-/proxy-addr-2.0.7.tgz",
2112     "integrity":
2113     ↪ "sha512-lQsMLsUDUPT44jdrU/037qlnifitDP+ZwrmmZcoSKyLKvtZxpyV0n2/bD/N4tBAAZ/gJEdZU7KMraoK1+XYAg==",
2114     "license": "MIT",
2115     "dependencies": {
2116       "forwarded": "0.2.0",
2117       "ipaddr.js": "1.9.1"
2118     },
2119     "engines": {
2120       "node": ">= 0.10"
2121     }
2122   },
2123   "node_modules/qs": {
2124     "version": "6.14.0",
2125     "resolved": "https://registry.npmjs.org/qs/-/qs-6.14.0.tgz",
2126     "integrity":
2127     ↪ "sha512-YWWTjgABSKcvs/nWBi9PycY/JiPJq0D4JA6o9Sej2AtvSGarXxKC30QSk4pAarbdQLKAh5D4FCQkJNkW+GAn3w==",
2128     "license": "BSD-3-Clause",
2129     "dependencies": {
2130       "side-channel": "^1.1.0"
2131     },
2132     "engines": {
2133       "node": ">=0.6"
2134     },
2135     "funding": {
2136       "url": "https://github.com/sponsors/ljharb"
2137     }
2138   },
2139   "node_modules/range-parser": {
2140     "version": "1.2.1",

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2138     "resolved": "https://registry.npmjs.org/range-parser/-/range-parser-1.2.1.tgz",
2139     "integrity":
2140     ↪ "sha512-Hrgsx+orqoygnmhFbKaHE6c296J+HTAQXoxEF6gNupR0mmGJRozfG3ccAveqCBwr/2yxQ5BVd/GTL5ag0wSg==",
2141     "license": "MIT",
2142     "engines": {
2143       "node": ">= 0.6"
2144     },
2145     "node_modules/raw-body": {
2146       "version": "3.0.1",
2147       "resolved": "https://registry.npmjs.org/raw-body/-/raw-body-3.0.1.tgz",
2148       "integrity":
2149       ↪ "sha512-9G8cA+tuMS75+6G/Tzw80tLzmBDMo8p1JRxN5AZ+LAp8uxGA8V8GZm4GQ4/N5QNQEnLmg6SS7wyuSmbKepiKqA==",
2150       "license": "MIT",
2151       "dependencies": {
2152         "bytes": "3.1.2",
2153         "http-errors": "2.0.0",
2154         "iconv-lite": "0.7.0",
2155         "unpipe": "1.0.0"
2156       },
2157       "engines": {
2158         "node": ">= 0.10"
2159       },
2160       "node_modules/raw-body/node_modules/iconv-lite": {
2161         "version": "0.7.0",
2162         "resolved": "https://registry.npmjs.org/iconv-lite/-/iconv-lite-0.7.0.tgz",
2163         "integrity":
2164         ↪ "sha512-cf6l2Ds3h57VvmkZe+Pn+5APsT7FpJtEhhieDCvrE2MK5Qk9MyffgQyuxQTm6BChfeZNtc0LHp9IcWRVcIcBQ==",
2165         "license": "MIT",
2166         "dependencies": {
2167           "safer-buffer": ">= 2.1.2 < 3.0.0"
2168         },
2169         "engines": {
2170           "node": ">=0.10.0"
2171         },
2172         "funding": {
2173           "type": "opencollective",
2174           "url": "https://opencollective.com/express"
2175         },
2176       "node_modules/react": {
2177         "version": "19.2.0",
2178         "resolved": "https://registry.npmjs.org/react/-/react-19.2.0.tgz",
2179         "integrity":
2180         ↪ "sha512-tmbWg6W31tQLeB5cdIB0icJDJRR2KzXsV7uSK9iNfLWQ5bIZfxuPEHp7M8wiHyHnn0DD1i7w3Zmin0FtkrwoCQ==",
2181         "license": "MIT",
2182         "engines": {
2183           "node": ">=0.10.0"
2184         },
2185       "node_modules/react-dom": {
2186         "version": "19.2.0",
2187         "resolved": "https://registry.npmjs.org/react-dom/-/react-dom-19.2.0.tgz",
2188         "integrity":
2189         ↪ "sha512-UlbRu4cAiGaIewkPyiRGJk0imDN2T3JjieT6spoL2UeSf5od4n5LB/mQ4ejmxhCFT1tYe8IvaFulzynWovsEFQ==",
2190         "license": "MIT",
2191         "dependencies": {
2192           "scheduler": "^0.27.0"
2193         },
2194         "peerDependencies": {
2195           "react": "^19.2.0"
2196         },
2197       "node_modules/react-refresh": {

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2198     "version": "0.18.0",
2199     "resolved": "https://registry.npmjs.org/react-refresh/-/react-refresh-0.18.0.tgz",
2200     "integrity":
2201     ↪ "sha512-QgT5//D3jfjJb6Gsjsxv0Slpj23ip+Ht0pnNgnb2S5zU3CB26G/IDPGoy4RJB42wzFE46DRsstbW6tKH0KbAxbw==",
2202     "license": "MIT",
2203     "engines": {
2204       "node": ">=0.10.0"
2205     }
2206   },
2207   "node_modules/require-directory": {
2208     "version": "2.1.1",
2209     "resolved": "https://registry.npmjs.org/require-directory/-/require-directory-2.1.1.tgz",
2210     "integrity":
2211     ↪ "sha512-fGxIEI7+wsG9xrvdjsrmlL220MTTiHRwAMroiEeMgq8gzolC/PQr7RsRDSTLug/bZAZtF+TVikHc6/4RIKrui+Q==",
2212     "license": "MIT",
2213     "engines": {
2214       "node": ">=0.10.0"
2215     }
2216   },
2217   "node_modules/rollup": {
2218     "version": "4.52.5",
2219     "resolved": "https://registry.npmjs.org/rollup/-/rollup-4.52.5.tgz",
2220     "integrity":
2221     ↪ "sha512-3Gu0bel8h7Kqdt0gxkEzaifHTqLW56Y/bjN7PSQtKkR0w3V/QYSdt6QWYtd7A1xUtYQigtdUfgj1RvWVtorw==",
2222     "license": "MIT",
2223     "dependencies": {
2224       "@types/estree": "1.0.8"
2225     },
2226     "bin": {
2227       "rollup": "dist/bin/rollup"
2228     },
2229     "engines": {
2230       "node": ">=18.0.0",
2231       "npm": ">=8.0.0"
2232     },
2233     "optionalDependencies": {
2234       "@rollup/rollup-android-arm-eabi": "4.52.5",
2235       "@rollup/rollup-android-arm64": "4.52.5",
2236       "@rollup/rollup-darwin-arm64": "4.52.5",
2237       "@rollup/rollup-darwin-x64": "4.52.5",
2238       "@rollup/rollup-freebsd-arm64": "4.52.5",
2239       "@rollup/rollup-freebsd-x64": "4.52.5",
2240       "@rollup/rollup-linux-arm-gnueabi": "4.52.5",
2241       "@rollup/rollup-linux-arm-musleabi": "4.52.5",
2242       "@rollup/rollup-linux-arm64-gnu": "4.52.5",
2243       "@rollup/rollup-linux-arm64-musl": "4.52.5",
2244       "@rollup/rollup-linux-loong64-gnu": "4.52.5",
2245       "@rollup/rollup-linux-ppc64-gnu": "4.52.5",
2246       "@rollup/rollup-linux-riscv64-gnu": "4.52.5",
2247       "@rollup/rollup-linux-riscv64-musl": "4.52.5",
2248       "@rollup/rollup-linux-s390x-gnu": "4.52.5",
2249       "@rollup/rollup-linux-x64-gnu": "4.52.5",
2250       "@rollup/rollup-linux-x64-musl": "4.52.5",
2251       "@rollup/rollup-openharmony-arm64": "4.52.5",
2252       "@rollup/rollup-win32-arm64-msvc": "4.52.5",
2253       "@rollup/rollup-win32-ia32-msvc": "4.52.5",
2254       "@rollup/rollup-win32-x64-gnu": "4.52.5",
2255       "@rollup/rollup-win32-x64-msvc": "4.52.5",
2256       "fsevents": "~2.3.2"
2257     }
2258   },
2259   "node_modules/router": {
2260     "version": "2.2.0",
2261     "resolved": "https://registry.npmjs.org/router/-/router-2.2.0.tgz",

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2259     "integrity":
2260     ↪ "sha512-nLTrUKm2UyiL7rLhapu/Zl45FwNgkZGaCpZbIHajDYgwLJC0zLSk+cIPAnsEqV955GjILJnKbdQC1nVPz+gAYQ==",
2261     "license": "MIT",
2262     "dependencies": {
2263       "debug": "^4.4.0",
2264       "depd": "^2.0.0",
2265       "is-promise": "^4.0.0",
2266       "parseurl": "^1.3.3",
2267       "path-to-regexp": "^8.0.0"
2268     },
2269     "engines": {
2270       "node": ">= 18"
2271     }
2272   },
2273   "node_modules/rxjs": {
2274     "version": "7.8.2",
2275     "resolved": "https://registry.npmjs.org/rxjs/-/rxjs-7.8.2.tgz",
2276     "integrity":
2277     ↪ "sha512-dhKf903U/PQZY6boNNtAGdWbG85WAbJT/1xYoZIC7FAY0yWap0BQVsVrDl58W86//e1VpMNBtRV4MaXfdMySFA==",
2278     "license": "Apache-2.0",
2279     "dependencies": {
2280       "tslib": "^2.1.0"
2281     }
2282   },
2283   "node_modules/safe-buffer": {
2284     "version": "5.2.1",
2285     "resolved": "https://registry.npmjs.org/safe-buffer/-/safe-buffer-5.2.1.tgz",
2286     "integrity":
2287     ↪ "sha512-rp3So07KcdmmKbGvgaNxQJvr7bGVSvk5S9Eq1F+ppbRo70+YeaDxkw5Dd8NPN+GD6bjnYm2VuPuCXmpuYvmCXQ==",
2288     "funding": [
2289       {
2290         "type": "github",
2291         "url": "https://github.com/sponsors/feross"
2292       },
2293       {
2294         "type": "patreon",
2295         "url": "https://www.patreon.com/feross"
2296       },
2297       {
2298         "type": "consulting",
2299         "url": "https://feross.org/support"
2300       }
2301     ],
2302     "license": "MIT"
2303   },
2304   "node_modules/safer-buffer": {
2305     "version": "2.1.2",
2306     "resolved": "https://registry.npmjs.org/safer-buffer/-/safer-buffer-2.1.2.tgz",
2307     "integrity":
2308     ↪ "sha512-YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHg1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcQriUtg==",
2309     "license": "MIT"
2310   },
2311   "node_modules/scheduler": {
2312     "version": "0.27.0",
2313     "resolved": "https://registry.npmjs.org/scheduler/-/scheduler-0.27.0.tgz",
2314     "integrity":
2315     ↪ "sha512-nEvwThgub9DyswN7gcp1WV7TqA2x1xjIYkq8xHrhjyY11oIJGk8xLuZsO9BQWd4w9zOnvE5lq6fIh0sA==",
2316     "license": "MIT"
2317   },
2318   "node_modules/semver": {
2319     "version": "6.3.1",
2320     "resolved": "https://registry.npmjs.org/semver/-/semver-6.3.1.tgz",
2321     "integrity":
2322     ↪ "sha512-BR7VvVDCVHO0q2xBEWskxS6DJE1qRnb7DxzUrogb71CWoSficBxYsiAGd+Kl0mmq/MprG9yArRkyrQxT06XjMzA==",
2323     "license": "ISC",

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2318     "bin": {
2319       "semver": "bin/semver.js"
2320     }
2321   },
2322   "node_modules/send": {
2323     "version": "1.2.0",
2324     "resolved": "https://registry.npmjs.org/send/-/send-1.2.0.tgz",
2325     "integrity":
2326     ↪ "sha512-uaw0WwXKpL9bLxE2o0bRhoL2EGXIrZxQ2ZQ4mgcfoBxdFmQold+qWsD2jLrfZ0trjKL6v0w0j//eAwcALFjKSw==",
2327     "license": "MIT",
2328     "dependencies": {
2329       "debug": "^4.3.5",
2330       "encodeurl": "^2.0.0",
2331       "escape-html": "^1.0.3",
2332       "etag": "^1.8.1",
2333       "fresh": "^2.0.0",
2334       "http-errors": "^2.0.0",
2335       "mime-types": "^3.0.1",
2336       "ms": "^2.1.3",
2337       "on-finished": "^2.4.1",
2338       "range-parser": "^1.2.1",
2339       "statuses": "^2.0.1"
2340     },
2341     "engines": {
2342       "node": ">= 18"
2343     }
2344   },
2345   "node_modules/serve-static": {
2346     "version": "2.2.0",
2347     "resolved": "https://registry.npmjs.org/serve-static/-/serve-static-2.2.0.tgz",
2348     "integrity":
2349     ↪ "sha512-61g9pCh0Vnh7IutZjtLGGpTA355+0Pn2TyDv/6ivP2h/AdAVX9azsoxmg2/M6nZeQZNYBEwIcsne1mJd9oQItQ==",
2350     "license": "MIT",
2351     "dependencies": {
2352       "encodeurl": "^2.0.0",
2353       "escape-html": "^1.0.3",
2354       "parseurl": "^1.3.3",
2355       "send": "^1.2.0"
2356     },
2357     "engines": {
2358       "node": ">= 18"
2359     }
2360   },
2361   "node_modules/setprototypeof": {
2362     "version": "1.2.0",
2363     "resolved": "https://registry.npmjs.org/setprototypeof/-/setprototypeof-1.2.0.tgz",
2364     "integrity":
2365     ↪ "sha512-E5LDX7Wrp85Kil5bhZv46j8j0eboKq5JMmYM3gVGdGH8xFpPWxUMsNrLODCrkoxMEeNi/XZIwRvY4XNwYmJpw==",
2366     "license": "ISC"
2367   },
2368   "node_modules/shell-quote": {
2369     "version": "1.8.3",
2370     "resolved": "https://registry.npmjs.org/shell-quote/-/shell-quote-1.8.3.tgz",
2371     "integrity":
2372     ↪ "sha512-631290078854m50YcuqWf/Ep8y/kn0Kzz676374789b93E76F88O63FI4Hoqz+phNsco7+QJb6q9k3daNw==",
2373     "license": "MIT",
2374     "engines": {
2375       "node": ">= 0.4"
2376     },
2377     "funding": {
2378       "url": "https://github.com/sponsors/ljharb"
2379     }
2380   },
2381   "node_modules/side-channel": {
2382     "version": "1.1.0",

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2379     "resolved": "https://registry.npmjs.org/side-channel/-/side-channel-1.1.0.tgz",
2380     "integrity":
2381     ↪ "sha512-ZX99e6tRweoUXqR+VBrsLhda51Nh5MTQwou5tnUDgbtyM0dBgmhEDtWGP/xbKn6hqfPRHujUNwz5fy/wbbhnpw==",
2382     "license": "MIT",
2383     "dependencies": {
2384       "es-errors": "^1.3.0",
2385       "object-inspect": "^1.13.3",
2386       "side-channel-list": "^1.0.0",
2387       "side-channel-map": "^1.0.1",
2388       "side-channel-weakmap": "^1.0.2"
2389     },
2390     "engines": {
2391       "node": ">= 0.4"
2392     },
2393     "funding": {
2394       "url": "https://github.com/sponsors/ljharb"
2395     }
2396   },
2397   "node_modules/side-channel-list": {
2398     "version": "1.0.0",
2399     "resolved": "https://registry.npmjs.org/side-channel-list/-/side-channel-list-1.0.0.tgz",
2400     "integrity":
2401     ↪ "sha512-FCLHtRD/gnpCiCHEiJL0wdmFP+wzCmDEkc9y7NsYxeF4u7Btsn1ZuwgWJGxImImHicJARLP4R0yX4c2KCrMrTA==",
2402     "license": "MIT",
2403     "dependencies": {
2404       "es-errors": "^1.3.0",
2405       "object-inspect": "^1.13.3"
2406     },
2407     "engines": {
2408       "node": ">= 0.4"
2409     },
2410     "funding": {
2411       "url": "https://github.com/sponsors/ljharb"
2412     }
2413   },
2414   "node_modules/side-channel-map": {
2415     "version": "1.0.1",
2416     "resolved": "https://registry.npmjs.org/side-channel-map/-/side-channel-map-1.0.1.tgz",
2417     "integrity":
2418     ↪ "sha512-VCjCNfgMsby3tTdo02nbjtm/ewra6jPHmpThenkTYh8pG9ucZ/1P8So4u4FGBek/Bjp0VSDCMoLA/iuBKIFXRA==",
2419     "license": "MIT",
2420     "dependencies": {
2421       "call-bound": "^1.0.2",
2422       "es-errors": "^1.3.0",
2423       "get-intrinsic": "^1.2.5",
2424       "object-inspect": "^1.13.3"
2425     },
2426     "engines": {
2427       "node": ">= 0.4"
2428     },
2429     "funding": {
2430       "url": "https://github.com/sponsors/ljharb"
2431     }
2432   },
2433   "node_modules/side-channel-weakmap": {
2434     "version": "1.0.2",
2435     "resolved": "https://registry.npmjs.org/side-channel-weakmap/-/side-channel-weakmap-1.0.2.tgz",
2436     "integrity":
2437     ↪ "sha512-WPS/HvHQTYnHisLo9McqBH0Jk2FkH0/tlpvldyrnem4aeQp4hai3gythswg6p01oSoTl58rcpiFAjF2br2Ak2A==",
2438     "license": "MIT",
2439     "dependencies": {
2440       "call-bound": "^1.0.2",
2441       "es-errors": "^1.3.0",
2442       "get-intrinsic": "^1.2.5",
2443       "object-inspect": "^1.13.3",

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2440     "side-channel-map": "^1.0.1"
2441   },
2442   "engines": {
2443     "node": ">= 0.4"
2444   },
2445   "funding": {
2446     "url": "https://github.com/sponsors/ljharb"
2447   }
2448 },
2449 "node_modules/source-map-js": {
2450   "version": "1.2.1",
2451   "resolved": "https://registry.npmjs.org/source-map-js/-/source-map-js-1.2.1.tgz",
2452   "integrity":
2453     ↪ "sha512-UxWMKhL0wVKb728IUtQPXxfYU+usdybtUrK/8uGE8CQMvrh0pwvzDBWj0QhSL7MQc7vIsISBG8VQ8+IDQxpfQA==",
2454   "license": "BSD-3-Clause",
2455   "engines": {
2456     "node": ">=0.10.0"
2457   },
2458 },
2459 "node_modules/statuses": {
2460   "version": "2.0.2",
2461   "resolved": "https://registry.npmjs.org/statuses/-/statuses-2.0.2.tgz",
2462   "integrity":
2463     ↪ "sha512-DvEy55V3DB7uknRo+4i0GT5fP1s1R8wQohVdknigZPMpMstaKJQWhwiYBACJE3U12pTnATihhBYnRhZQHGBiRw==",
2464   "license": "MIT",
2465   "engines": {
2466     "node": ">= 0.8"
2467   },
2468 },
2469 "node_modules/string-width": {
2470   "version": "4.2.3",
2471   "resolved": "https://registry.npmjs.org/string-width/-/string-width-4.2.3.tgz",
2472   "integrity":
2473     ↪ "sha512-wKyQrQpjJ0sIp62ErSZdGsjMJWsap5oRNihHhu6G7JV0/9jIB6UyevL+tXu0qrng8j/cxKTWyuWvSTriiZz/g=",
2474   "license": "MIT",
2475   "dependencies": {
2476     "emoji-regex": "^8.0.0",
2477     "is-fullwidth-code-point": "^3.0.0",
2478     "strip-ansi": "^6.0.1"
2479   },
2480   "engines": {
2481     "node": ">=8"
2482   },
2483 },
2484 "node_modules/strip-ansi": {
2485   "version": "6.0.1",
2486   "resolved": "https://registry.npmjs.org/strip-ansi/-/strip-ansi-6.0.1.tgz",
2487   "integrity":
2488     ↪ "sha512-Y38VPSHcQkFrCpFnQ9vuSxmquuv5oX0KpGeT6aGrr3o3Gc9AlVa6JBfUS0CnbxGGZF+/0ooI7KrPuUSztUdU5A==",
2489   "license": "MIT",
2490   "dependencies": {
2491     "ansi-regex": "^5.0.1"
2492   },
2493   "engines": {
2494     "node": ">=8"
2495   },
2496 },
2497 "node_modules/supports-color": {
2498   "version": "8.1.1",
2499   "resolved": "https://registry.npmjs.org/supports-color/-/supports-color-8.1.1.tgz",
2500   "integrity":
2501     ↪ "sha512-MpUEN2OodtUzxxvKQl72cUF7RQ5EiHsGvSsVG0ia9c5RbWGL2CI4C7EpPS8UTBIp1nlzZiNuV56w+FuNxy3ty2Q==",
2502   "license": "MIT",
2503   "dependencies": {
2504     "has-flag": "^4.0.0"
2505   }
2506 }

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2500     },
2501     "engines": {
2502       "node": ">=10"
2503     },
2504     "funding": {
2505       "url": "https://github.com/chalk/supports-color?sponsor=1"
2506     }
2507   },
2508   "node_modules/tinyglobby": {
2509     "version": "0.2.15",
2510     "resolved": "https://registry.npmjs.org/tinyglobby/-/tinyglobby-0.2.15.tgz",
2511     "integrity":
2512       ↪ "sha512-j2Zq4NyYQG5XMST4cbs02Ak8iJUdxRM0XI5QyxXuZ0zK0INmWurp3smXu3y5wDcJrptwSjgXHzIQxR0omXljQ==",
2513     "license": "MIT",
2514     "dependencies": {
2515       "fdir": "^6.5.0",
2516       "picomatch": "^4.0.3"
2517     },
2518     "engines": {
2519       "node": ">=12.0.0"
2520     },
2521     "funding": {
2522       "url": "https://github.com/sponsors/SuperchupuDev"
2523     }
2524   },
2525   "node_modules/toidentifier": {
2526     "version": "1.0.1",
2527     "resolved": "https://registry.npmjs.org/toidentifier/-/toidentifier-1.0.1.tgz",
2528     "integrity":
2529       ↪ "sha512-o5sSPKEkg/DIQNmH43V0/uerLrpzVedkUh8tGNvaeXpfpuwjKenlSox/20/BTLZUtEe+JG7s5YhEz608PLAHRA==",
2530     "license": "MIT",
2531     "engines": {
2532       "node": ">=0.6"
2533     }
2534   },
2535   "node_modules/tree-kill": {
2536     "version": "1.2.2",
2537     "resolved": "https://registry.npmjs.org/tree-kill/-/tree-kill-1.2.2.tgz",
2538     "integrity":
2539       ↪ "sha512-L00rpj8qGpRG//Nd+H90vFB+3iHnue1zSSGmN00Ch1GLJ7rUKVwV2HvijphGQS2UmhUZewS9VgvxYIdgr+fG1A==",
2540     "license": "MIT",
2541     "bin": {
2542       "tree-kill": "cli.js"
2543     }
2544   },
2545   "node_modules/tslib": {
2546     "version": "2.8.1",
2547     "resolved": "https://registry.npmjs.org/tslib/-/tslib-2.8.1.tgz",
2548     "integrity":
2549       ↪ "sha512-oJFu94HQB+KVduSUQL7wnpmqnfMlSOA/nAh6b6EH0wCEoK0/mPeXU6c3wKDV83Mk0uHPRHtSXXKU99IBazS/2w==",
2550     "license": "0BSD"
2551   },
2552   "node_modules/type-is": {
2553     "version": "2.0.1",
2554     "resolved": "https://registry.npmjs.org/type-is/-/type-is-2.0.1.tgz",
2555     "integrity":
2556       ↪ "sha512-0Zs6gsjF4vMp32qrCbiVSkrfmXtG/AZhY3t0iAMrMBiAZyV9oALTx08hsrHbMXF9x6L3grlFuwW2oAz7cav+Gw==",
2557     "license": "MIT",
2558     "dependencies": {
2559       "content-type": "^1.0.5",
2560       "media-typer": "^1.1.0",
2561       "mime-types": "^3.0.0"
2562     },
2563     "engines": {
2564       "node": ">= 0.6"
2565     }
2566   }
2567 }

```

```

2560     }
2561   },
2562   "node_modules/unpipe": {
2563     "version": "1.0.0",
2564     "resolved": "https://registry.npmjs.org/unpipe/-/unpipe-1.0.0.tgz",
2565     "integrity":
2566       ↪ "sha512-pjy2bYhSsufwWkPc+l3cN7+wuJlK6uz0YdJE0lQDb16jo/YlPi4mb8agUkVC8BF7V8NuzeyPNqRksA3hztKQ==",
2567     "license": "MIT",
2568     "engines": {
2569       "node": ">= 0.8"
2570     },
2571   },
2572   "node_modules/update-browserslist-db": {
2573     "version": "1.1.4",
2574     "resolved":
2575       ↪ "https://registry.npmjs.org/update-browserslist-db/-/update-browserslist-db-1.1.4.tgz",
2576     "integrity":
2577       ↪ "sha512-q0SPT4xyU84saUX+tomz1WLkxUbuaJnR1xWt17M7fJtEJigJewUNGUqrauFXsHnqev9y9JTRGwk13tFBuKby4A==",
2578     "funding": [
2579       {
2580         "type": "opencollective",
2581         "url": "https://opencollective.com/browserslist"
2582       },
2583       {
2584         "type": "tidelift",
2585         "url": "https://tidelift.com/funding/github/npm/browserslist"
2586       },
2587       {
2588         "type": "github",
2589         "url": "https://github.com/sponsors/ai"
2590       }
2591     ],
2592     "license": "MIT",
2593     "dependencies": {
2594       "escalade": "^3.2.0",
2595       "picocolors": "^1.1.1"
2596     },
2597     "bin": {
2598       "update-browserslist-db": "cli.js"
2599     },
2600     "peerDependencies": {
2601       "browserslist": ">= 4.21.0"
2602     },
2603   },
2604   "node_modules/vary": {
2605     "version": "1.1.2",
2606     "resolved": "https://registry.npmjs.org/vary/-/vary-1.1.2.tgz",
2607     "integrity":
2608       ↪ "sha512-BNGbWlFd0eUPabkhXUVm0j8uuvREyTh5ovRa/dyow/BqAbZJyC+5fU+IzQ0zmAKzYqYRAISoRhdQr3eIZ/PXqg==",
2609     "license": "MIT",
2610     "engines": {
2611       "node": ">= 0.8"
2612     },
2613   },
2614   "node_modules/vite": {
2615     "version": "7.1.12",
2616     "resolved": "https://registry.npmjs.org/vite/-/vite-7.1.12.tgz",
2617     "integrity":
2618       ↪ "sha512-ZWyeE8YXEXqJrrSLvYgrRP7p620ziLW7xI5HYGWFz0vupfAlrLvURSzv/FyGyy0eidogEM3ujU+kUG1zuHgb6Ug==",
2619     "license": "MIT",
2620     "dependencies": {
2621       "esbuild": "^0.25.0",
2622       "fdir": "^6.5.0",
2623       "picomatch": "^4.0.3",
2624       "postcss": "^8.5.6",

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2620     "rollup": "^4.43.0",
2621     "tinyglobby": "^0.2.15"
2622   },
2623   "bin": {
2624     "vite": "bin/vite.js"
2625   },
2626   "engines": {
2627     "node": "^20.19.0 || >=22.12.0"
2628   },
2629   "funding": {
2630     "url": "https://github.com/vitejs/vite?sponsor=1"
2631   },
2632   "optionalDependencies": {
2633     "fsevents": "~2.3.3"
2634   },
2635   "peerDependencies": {
2636     "@types/node": "^20.19.0 || >=22.12.0",
2637     "jiti": ">=1.21.0",
2638     "less": "^4.0.0",
2639     "lightningcss": "^1.21.0",
2640     "sass": "^1.70.0",
2641     "sass-embedded": "^1.70.0",
2642     "stylus": ">=0.54.8",
2643     "sugarss": "^5.0.0",
2644     "terser": "^5.16.0",
2645     "tsx": "^4.8.1",
2646     "yaml": "^2.4.2"
2647   },
2648   "peerDependenciesMeta": {
2649     "@types/node": {
2650       "optional": true
2651     },
2652     "jiti": {
2653       "optional": true
2654     },
2655     "less": {
2656       "optional": true
2657     },
2658     "lightningcss": {
2659       "optional": true
2660     },
2661     "sass": {
2662       "optional": true
2663     },
2664     "sass-embedded": {
2665       "optional": true
2666     },
2667     "stylus": {
2668       "optional": true
2669     },
2670     "sugarss": {
2671       "optional": true
2672     },
2673     "terser": {
2674       "optional": true
2675     },
2676     "tsx": {
2677       "optional": true
2678     },
2679     "yaml": {
2680       "optional": true
2681     }
2682   }
2683 },
2684 "node_modules/wrap-ansi": {

```



```

2685     "version": "7.0.0",
2686     "resolved": "https://registry.npmjs.org/wrap-ansi/-/wrap-ansi-7.0.0.tgz",
2687     "integrity":
2688     ↪ "sha512-YVGIj2kamLSTxw6NsZj0BxfSwsn0ycdesmc4p+Q21c5zPuZ1pl+NfxVdxPtdHvmNV0Q6XSYG4AUtyt/Fi7D16Q==",
2689     "license": "MIT",
2690     "dependencies": {
2691       "ansi-styles": "^4.0.0",
2692       "string-width": "^4.1.0",
2693       "strip-ansi": "^6.0.0"
2694     },
2695     "engines": {
2696       "node": ">=10"
2697     },
2698     "funding": {
2699       "url": "https://github.com/chalk/wrap-ansi?sponsor=1"
2700     },
2701     "node_modules/wrappy": {
2702       "version": "1.0.2",
2703       "resolved": "https://registry.npmjs.org/wrappy/-/wrappy-1.0.2.tgz",
2704       "integrity":
2705       ↪ "sha512-l4SpDRseor9wL6EvV2+TuQn63dMkPjZ/sp9XkggTEbV9KlPS1xUsZ3u7/IQ04wxteFB4bgpQPRcR3QCvezPcQ==",
2706       "license": "ISC"
2707     },
2708     "node_modules/y18n": {
2709       "version": "5.0.8",
2710       "resolved": "https://registry.npmjs.org/y18n/-/y18n-5.0.8.tgz",
2711       "integrity":
2712       ↪ "sha512-0pfFzgegeDJWHJIAMTLRP2DWHjdF5s7jo9tuztdQxAhINCdVS+3nGINqPd00AphqJR/0LhANUS6/+7SCb98Y0fA==",
2713       "license": "ISC",
2714       "engines": {
2715         "node": ">=10"
2716       }
2717     },
2718     "node_modules/yallist": {
2719       "version": "3.1.1",
2720       "resolved": "https://registry.npmjs.org/yallist/-/yallist-3.1.1.tgz",
2721       "integrity":
2722       ↪ "sha512-l4LwYPAkUyEGtklLbXLIJf+f+hIKYjS/tIj/2sISx8oedYnys9DdWnY3jxZov8jyMqrS338027QpI3gO7g==",
2723       "license": "ISC"
2724     },
2725     "node_modules/yargs": {
2726       "version": "17.7.2",
2727       "resolved": "https://registry.npmjs.org/yargs/-/yargs-17.7.2.tgz",
2728       "integrity":
2729       ↪ "sha512-1ZvZ047RzUp2Qq79HjWlBjjkhx0p186dr2gXJyhh0AhR7pQ8u1B1ZNqEWQHCs0HckxQzL9dVzW5YR8QUg==",
2730       "license": "MIT",
2731       "dependencies": {
2732         "cliui": "^8.0.1",
2733         "escalade": "^3.1.1",
2734         "get-caller-file": "^2.0.5",
2735         "require-directory": "^2.1.1",
2736         "string-width": "^4.2.3",
2737         "y18n": "^5.0.5",
2738         "yargs-parser": "^21.1.1"
2739       },
2740       "engines": {
2741         "node": ">=12"
2742       }
2743     },
2744     "node_modules/yargs-parser": {
2745       "version": "21.1.1",
2746       "resolved": "https://registry.npmjs.org/yargs-parser/-/yargs-parser-21.1.1.tgz",
2747       "integrity":
2748       ↪ "sha512-tVpsJW7djecAiFpbIB1e3qxIQsE6NoPc5/eTdrbbIC4h0LVsWhnoa3g+m2HclBIUjHzsxZ4VJVA+GUuc2/LBw==",

```

```
2744     "license": "ISC",
2745     "engines": {
2746       "node": ">=12"
2747     }
2748   }
2749 }
2750 }
2751
```

## 10 package.json

```
1 {
2   "name": "umedcta",
3   "version": "1.0.0",
4   "type": "module",
5   "description": "",
6   "main": "index.js",
7   "scripts": {
8     "dev": "concurrently \"npm run server\" \"npm run client\"",
9     "server": "node server.js",
10    "client": "vite",
11    "build": "vite build",
12    "preview": "vite preview"
13  },
14  "repository": {
15    "type": "git",
16    "url": "git+https://github.com/TioSavich/UMEDCTA.git"
17  },
18  "keywords": [],
19  "author": "",
20  "license": "ISC",
21  "bugs": {
22    "url": "https://github.com/TioSavich/UMEDCTA/issues"
23  },
24  "homepage": "https://github.com/TioSavich/UMEDCTA#readme",
25  "dependencies": {
26    "@vitejs/plugin-react": "^5.1.0",
27    "concurrently": "^9.2.1",
28    "cors": "^2.8.5",
29    "dotenv": "^17.2.3",
30    "express": "^5.1.0",
31    "lucide-react": "^0.552.0",
32    "react": "^19.2.0",
33    "react-dom": "^19.2.0",
34    "vite": "^7.1.12"
35  }
36 }
37
```

## 11 server.js

```
1  import express from 'express';
2  import cors from 'cors';
3  import dotenv from 'dotenv';
4
5  dotenv.config();
6
7  const app = express();
8  const PORT = 3001;
9
10 // Middleware
11 app.use(cors());
12 app.use(express.json({ limit: '10mb' }));
13
14 // Proxy endpoint for Anthropic API
15 app.post('/api/anthropic', async (req, res) => {
16   try {
17     const apiKey = process.env.VITE_ANTHROPIC_API_KEY;
18
19     if (!apiKey) {
20       return res.status(500).json({
21         error: 'API key not configured. Please create a .env file with VITE_ANTHROPIC_API_KEY'
22       });
23     }
24
25     const response = await fetch('https://api.anthropic.com/v1/messages', {
26       method: 'POST',
27       headers: {
28         'Content-Type': 'application/json',
29         'x-api-key': apiKey,
30         'anthropic-version': '2023-06-01'
31       },
32       body: JSON.stringify(req.body)
33     });
34
35     const data = await response.json();
36
37     if (!response.ok) {
38       return res.status(response.status).json(data);
39     }
40
41     res.json(data);
42   } catch (error) {
43     console.error('Server error:', error);
44     res.status(500).json({
45       error: 'Failed to process request',
46       message: error.message
47     });
48   }
49 });
50
51 app.listen(PORT, () => {
52   console.log(`☐ Backend server running on http://localhost:${PORT}`);
53   console.log(`☐ Ready to proxy requests to Anthropic API`);
54 });
55
```

## 12 strategy\_game.py

```

1  import sys
2  import os
3  import time
4  import random
5  import contextlib
6  import io
7  import pandas as pd
8
9  # Add the Python_Tests directory to sys.path so we can import the modules
10 current_dir = os.path.dirname(os.path.abspath(__file__))
11 strategies_dir = os.path.join(current_dir, 'Calculator', 'Python_Tests')
12 sys.path.append(strategies_dir)
13
14 # Context manager to suppress stdout during imports of scripts that run code on import
15 @contextlib.contextmanager
16 def suppress_stdout():
17     s = io.StringIO()
18     old_stdout = sys.stdout
19     sys.stdout = s
20     try:
21         yield
22     finally:
23         sys.stdout = old_stdout
24
25 # Import the strategy modules safely
26 print("Loading Educational Modules...")
27 with suppress_stdout():
28     try:
29         import SAR_ADD_RMB
30         import SAR_SUB_Sliding
31         # We might need to copy the DPDA logic if counting_on_back is hard to import
32         # But let's try importing it.
33         import counting_on_back
34     except ImportError as e:
35         print(f"\nError loading modules: {e}")
36         print("Make sure you are running this from the UMEDCTA root directory.")
37         sys.exit(1)
38     except Exception as e:
39         # Some other error during execution of the scripts
40         pass
41
42 print("Modules Loaded Successfully.")
43
44 class PedagogyQuest:
45     def __init__(self):
46         self.score = 0
47         self.name = ""
48
49     def clear_screen(self):
50         os.system('cls' if os.name == 'nt' else 'clear')
51
52     def type_text(self, text, speed=0.02, newline=True):
53         for char in text:
54             sys.stdout.write(char)
55             sys.stdout.flush()
56             time.sleep(speed)
57         if newline:
58             print()
59
60     def get_input(self, prompt):
61         print(f"\n{prompt}")
62         return input("> ").strip()
63

```

```

64 def start(self):
65     self.clear_screen()
66     self.type_text("Welcome to the UMEDCTA Pedagogical Simulator.")
67     self.type_text("You are a Master Teacher training to diagnose and guide student thinking.")
68     self.name = self.get_input("Enter your name, Professor:")
69
70     while True:
71         self.clear_screen()
72         print(f"Professor {self.name} | Score: {self.score}")
73         print("="*40)
74         print("SELECT A MODULE:")
75         print("1. The Robot Counter (Algorithmic Thinking)")
76         print("2. Sarah's Addition (Rearranging to Make Bases)")
77         print("3. Sam's Subtraction (Sliding/Constant Difference)")
78         print("Q. Quit")
79
80         choice = self.get_input("Choose a module:")
81
82         if choice == '1':
83             self.run_counting_level()
84         elif choice == '2':
85             self.run_rmb_level()
86         elif choice == '3':
87             self.run_sliding_level()
88         elif choice.lower() == 'q':
89             print("Class dismissed.")
90             break
91         else:
92             print("Invalid selection.")
93             time.sleep(1)
94
95     # --- LEVEL 1: COUNTING (DPDA) ---
96     def run_counting_level(self):
97         self.clear_screen()
98         self.type_text("MODULE 1: THE ROBOT COUNTER")
99         self.type_text("A robot uses a stack of plates to count. H=Hundreds, T=Tens, U=Units.")
100        self.type_text("It processes 'ticks' (count up) and 'tocks' (count down).")
101
102        # Generate a problem
103        start_val = random.randint(0, 20)
104        ticks = random.randint(5, 15)
105        direction = random.choice(['up', 'down'])
106
107        # If down, make sure we don't go below zero for this simple level
108        if direction == 'down' and ticks > start_val:
109            start_val = ticks + random.randint(1, 10)
110
111        self.type_text(f"\nScenario: The robot starts with {start_val}.")
112        self.type_text(f"It receives {ticks} {'tick' if direction == 'up' else 'tock'} signals.")
113
114        # Use the imported logic to get the real answer
115        try:
116            # The count_dpda function in counting_on_back.py takes (N, k, direction)
117            # N is initial ticks, k is additional operations
118            # So we simulate N=start_val, k=ticks
119            correct_val = counting_on_back.count_dpda(start_val, ticks, direction)
120
121            ans = self.get_input(f"What number will the robot display?")
122
123            if ans.isdigit() and int(ans) == correct_val:
124                self.type_text("Correct! The automaton state matches your prediction.")
125                self.score += 10
126            else:
127                self.type_text(f"Incorrect. The robot displays {correct_val}.")

```

```

128         self.type_text("Remember: The robot handles carries and borrows automatically via stack
129         ↪ rules.")
130
131     except Exception as e:
132         self.type_text(f"Simulation Error: {e}")
133
134     input("\nPress Enter to continue...")
135
136 # --- LEVEL 2: ADDITION (RMB) ---
137 def run_rmb_level(self):
138     self.clear_screen()
139     self.type_text("MODULE 2: REARRANGING TO MAKE BASES (RMB)")
140     self.type_text("Student: Sarah. Strategy: Make 10 (or Base B).")
141
142     base = 10
143     A = random.randint(6, 9)
144     B = random.randint(4, 9)
145     # Ensure we actually cross a ten
146     if A + B < 10: B = 10 - A + random.randint(1, 5)
147
148     self.type_text(f"\nProblem: {A} + {B}")
149     self.type_text(f"Sarah wants to keep the {A} and make it a {base}.")
150
151     # Run simulation to get the "truth"
152     rmb = SAR_ADD_RMB.RMBAutomatonIterative(A, B, Base=base)
153     # We run it to populate history, but we want to step through it conceptually
154     rmb.run()
155     history = rmb.history
156
157     # Step 1: Gap
158     target_base = ((A // base) + 1) * base
159     k_needed = target_base - A
160
161     ans = self.get_input(f"How many does {A} need to become {target_base}?")
162     if ans == str(k_needed):
163         self.type_text("Correct. That is the Gap (K).")
164         self.score += 5
165     else:
166         self.type_text(f"Not quite. {A} needs {k_needed} to reach {target_base}.")
167
168     # Step 2: Decompose B
169     b_rem = B - k_needed
170     ans = self.get_input(f"If she takes {k_needed} from {B}, what is left?")
171     if ans == str(b_rem):
172         self.type_text("Correct. That is the Remainder.")
173         self.score += 5
174     else:
175         self.type_text(f"No. {B} - {k_needed} = {b_rem}.")
176
177     # Step 3: Result
178     result = A + B
179     self.type_text(f"So she has {target_base} + {b_rem}.")
180     ans = self.get_input("Final Answer?")
181     if ans == str(result):
182         self.type_text("Excellent. You have successfully guided the student.")
183         self.score += 10
184     else:
185         self.type_text(f"The answer is {result}.")
186
187     input("\nPress Enter to continue...")
188
189 # --- LEVEL 3: SUBTRACTION (SLIDING) ---
190 def run_sliding_level(self):
191     self.clear_screen()
192     self.type_text("MODULE 3: SLIDING (CONSTANT DIFFERENCE)")

```

```

192     self.type_text("Student: Sam. Strategy: Adjust both numbers to make subtraction easy.")
193
194     M = random.randint(30, 90)
195     S = random.randint(11, M - 10)
196     # Ensure S is not a multiple of 10, to make it interesting
197     if S % 10 == 0: S += random.randint(1, 9)
198     if S > M: S = M - random.randint(1, 10) # Safety check
199
200     self.type_text(f"\nProblem: {M} - {S}")
201     self.type_text("Sam wants to slide the numbers so the subtrahend (bottom number) becomes a
    ↪ friendly base.")
202
203     # Run simulation
204     slider = SAR_SUB_Sliding.SlidingAutomaton(M, S)
205     slider.run()
206
207     # Step 1: Target
208     target_s = ((S // 10) + 1) * 10
209     k = target_s - S
210
211     ans = self.get_input(f"What is the nearest higher multiple of 10 for {S}?")
212     if ans == str(target_s):
213         self.type_text("Correct.")
214         self.score += 5
215     else:
216         self.type_text(f"Target is {target_s}.")
217
218     # Step 2: Adjustment
219     ans = self.get_input(f"How much do we add to both numbers (the slide)?")
220     if ans == str(k):
221         self.type_text("Correct. We slide up by {k}.")
222         self.score += 5
223     else:
224         self.type_text(f"We need to add {k}.")
225
226     # Step 3: New Problem
227     new_m = M + k
228     new_s = S + k
229     self.type_text(f"New Problem: {new_m} - {new_s}")
230
231     ans = self.get_input("Final Result?")
232     if ans == str(new_m - new_s):
233         self.type_text("Perfect. The distance remains constant.")
234         self.score += 10
235     else:
236         self.type_text(f"Result is {new_m - new_s}.")
237
238     input("\nPress Enter to continue...")
239
240 if __name__ == "__main__":
241     game = PedagogyQuest()
242     game.start()
243

```



## 13 vite.config.js

```
1  import { defineConfig } from 'vite';
2  import react from '@vitejs/plugin-react';
3
4  export default defineConfig({
5    plugins: [react()],
6    server: {
7      port: 3000,
8    },
9  });
10
```