

# Claude Code vs Codev: Round 1 Comparison

2026-02-13

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## Vibe Coding vs. SPIR: Todo Manager Comparison

**Date:** 2026-02-13 **PRs:** Vibe PR #1 | SPIR PR #1 **Reviewers:** Claude Opus 4.6, GPT-5.3 Codex, Gemini 3 Pro

### Methodology

Two Claude instances received the **identical prompt** to build a Todo Manager (Next.js 14+, TypeScript, localStorage, NL interface, Railway-ready). The only difference: the SPIR builder was told to use porch strict mode with 3-way multi-agent consultation at every checkpoint. Both ran with **--dangerously-skip-permissions** in fresh repos.

After both completed and submitted PRs, three independent AI reviewers (Claude, Codex, Gemini)

reviewed each codebase blind — reading all source files, running bug sweeps, and rating seven dimensions.

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## Scorecard

### Individual Reviewer Scores

Dimension	Claude Vibe	Claude SPIR	Codex Vibe	Codex SPIR	Gemini Vibe	Gemini SPIR
Code Quality	6	8	6	7	8	8
Maintainability	6	8	6	7	9	8
Tests	3	8	4	8	5	7
Extensibility	5	7	5	6	7	7
NL Interface	7	6	5	6	6	6
Deployment	5	7	4	8	9	9

### Averaged Scores

Dimension	Vibe (avg)	SPIR (avg)	Delta
<b>Code Quality</b>	6.7	7.7	<b>+1.0</b>
<b>Maintainability</b>	7.0	7.7	<b>+0.7</b>
<b>Tests</b>	4.0	7.7	<b>+3.7</b>
<b>Extensibility</b>	5.7	6.7	<b>+1.0</b>
<b>NL Interface</b>	6.0	6.0	<b>0.0</b>
<b>Deployment</b>	6.0	8.0	<b>+2.0</b>
<b>Overall</b>	<b>5.9</b>	<b>7.3</b>	<b>+1.4</b>

### Quantitative Comparison

Metric	Vibe	SPIR
Source lines (excl. tests)	916	1,596
Test lines	235	1,743
Test-to-code ratio	0.26:1	1.09:1
Test files	3	8
Component tests	0	288 lines
Integration tests	0	196 lines
Git commits	1	14
Documentation artifacts	0	spec + plan + review + 30 consultation files
Dockerfile	No	Yes (multi-stage)

## Bug Sweep Synthesis

All three reviewers independently reviewed the code. Below are the bugs **confirmed by 2+ reviewers** (high confidence) and those found by only one.

### Vibe Bugs (consensus)

Bug	Severity	Found by	Description
<b>Broken update NL command</b>	Critical	Claude, Codex, Gemini	<code>nlParser.ts</code> fuzzy-matches the entire command body (including priority/date text) against todo titles. “update buy milk high priority” searches for “buy milk high priority” instead of “buy milk”.
<b>No local-Storage error handling</b>	High	Claude, Codex, Gemini	<code>saveTodos()</code> in <code>storage.ts:18</code> does raw <code>setItem()</code> with no try/catch. <code>QuotaExceededError</code> crashes the app with no user feedback.
<b>No data validation on load</b>	Medium	Claude, Codex, Gemini	<code>loadTodos()</code> casts parsed JSON to <code>Todo[]</code> without schema checks. Corrupt/tampered data can break rendering.
<b>Aggressive prefix stripping</b>	Medium	Claude, Gemini	<code>stripIntentPrefix</code> removes command keywords. “Add task management” becomes an attempt to create “management” (or worse, interprets “update” in “Update the documentation” as a command).
<b>No delete confirmation</b>	Medium	Claude	Clicking delete immediately removes the todo. No undo, no confirmation dialog.
<b>Fuzzy match returns first, not best</b>	Medium	Claude, Gemini	<code>fuzzyMatch</code> returns the first substring match. “delete buy” with todos “buy groceries” and “buy milk” silently deletes whichever comes first. No disambiguation.
<b>No input validation</b>	Medium	Claude	No max-length on title/description. Users can paste arbitrary content.

Bug	Severity	Found by	Description
<b>No test script in package.json</b>	Low	Claude, Codex	<code>npm test</code> does nothing. CI/CD would fail.
<b>Font setup conflict</b>	Low	Codex	Layout imports Geist font but CSS overrides with Arial.

### SPIR Bugs (consensus)

Bug	Severity	Found by	Description
<b>Date range filter not connected</b>	Critical	Codex, Gemini	NL commands like “show todos due this week” parse correctly but the <code>dateRange</code> filter is never applied to the UI. <code>NLInput</code> stores feedback only; <code>page.tsx</code> clears date range in <code>setFilters</code> .
<b>Data wipe on corrupt load</b>	High	Gemini	If <code>loadTodos()</code> fails (corrupt JSON), it returns empty array. <code>isLoading</code> becomes true, triggering save — overwriting <code>localStorage</code> with <code>[]</code> .
<b>cleanTitle strips meaningful words</b>	Medium	Claude, Codex	<code>nl-parser.ts:101</code> strips “task”, “todo” globally. “add task management” becomes “management”.
<b>Limited date parsing</b>	Medium	Claude	Only supports “today”, “tomorrow”, weekdays, “this/next week”. No specific dates (“March 15”), no relative dates (“in 3 days”). Vibe’s <code>chrono-node</code> handles these.
<b>updateTodo silent no-op</b>	Medium	Codex	<code>useTodos.ts:103</code> returns <code>null</code> after map regardless of match. Updates to non-existent IDs report success.
<b>onDelete prop unused</b>	Low	Claude, Codex, Gemini	<code>TodoItem</code> receives <code>onDelete</code> but uses <code>onRequestDelete</code> . Dead code.
<b>ConfirmDialog hardcoded “Delete”</b>	Low	Codex, Gemini	Button text is always “Delete” even for non-delete confirmations.

## Cross-cutting: Shared Weaknesses

Both implementations share these problems: - **No multi-tab sync**: Neither listens for **storage** events. Opening two tabs causes stale state. - **Regex-based NL parsing**: Both use regex state machines that will become unmaintainable as commands grow. All three reviewers noted this. - **No accessibility testing**: Neither has ARIA compliance tests. - **No E2E browser tests**: Neither includes Playwright/Cypress tests.

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## Architecture Comparison

### Vibe

- **State**: React Context + `useReducer` — clean, well-known pattern
- **NL**: Single `parseCommand()` function couples parsing AND execution (takes `todos[]`, returns `TodoAction`)
- **Storage**: Two bare functions (`loadTodos/saveTodos`), no error handling
- **Components**: 7 components, flat hierarchy, minimal prop drilling
- **Dependencies**: Uses `chrono-node` for date parsing (big advantage)

### SPIR

- **State**: Custom `useTodos` hook with validation, error surfacing, filtering, and sorting built in
- **NL**: Two-layer architecture — `parseNL` (pure parser) + `executeNL` (executor with deps injection). Independently testable.
- **Storage**: Typed errors (`StorageError`), availability checking, quota handling
- **Components**: 6 components + `ConfirmDialog` + `EmptyState`, more prop drilling but more testable
- **Dependencies**: No external date parser (limitation), but also no supply-chain risk

**Key architectural advantage of SPIR**: The parser/executor split. The parser is a pure function `string → NLCommand`. The executor takes `NLCommand + Dependencies → NLResult`. This makes both independently testable and swappable. The vibe version's `parseCommand` is a monolith that requires live todo state to produce results.

**Key architectural advantage of Vibe**: The `useReducer` pattern is naturally suited for undo/redo (state history stack). SPIR's `useState` in `useTodos` would need more refactoring for this.

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## Test Quality Deep Dive

### Vibe (235 lines, 3 files)

- `nlParser.test.ts` (113 lines): 13 happy-path tests for add/complete/delete/show
- `storage.test.ts` (57 lines): 4 tests for round-trip, invalid JSON
- `todoReducer.test.ts` (65 lines): 5 tests for ADD/UPDATE/DELETE/TOGGLE/LOAD

**Not tested**: Components, date parsing, edge cases, filter behavior, NL update command (the broken one), error states.

## SPIR (1,743 lines, 8 files)

- `nl-parser.test.ts` (224 lines): 20 tests including case variations, compound filters
- `nl-executor.test.ts` (248 lines): 12 tests including disambiguation, bulk delete
- `date-parser.test.ts` (93 lines): 11 tests with frozen time
- `storage.test.ts` (124 lines): 10 tests including quota exceeded, corrupted data
- `useTodos.test.ts` (558 lines): 28 tests covering filtering, sorting (6 scenarios), validation
- `components.test.tsx` (288 lines): 18 tests using Testing Library with user interactions
- `integration.test.ts` (196 lines): 8 end-to-end NL pipeline tests including multi-step workflow
- `setup.test.ts` (12 lines): Environment verification

**SPIR's standout:** The integration tests simulate the full NL pipeline from string input to store mutation, including a multi-step workflow test that creates, queries, updates, and deletes in sequence.

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## NL Interface Comparison

Capability	Vibe	SPIR
Add with priority	Yes	Yes
Add with flexible dates	<b>Yes</b> (chrono-node)	Limited (hardcoded keywords)
Complete by name	Yes (fuzzy)	Yes (substring)
Delete with confirmation	No	<b>Yes</b>
Bulk delete	No	<b>Yes</b> ("remove completed")
Change priority via NL	Broken	<b>Yes</b>
Set due date via NL	No	<b>Yes</b>
Filter by date range	No	Parsed but <b>not connected</b>
Disambiguation	No (first match)	<b>Yes</b> (shows options)
Mark as pending	No (toggle only)	<b>Yes</b>
Error with usage hints	No	<b>Yes</b>

**Verdict:** SPIR has more NL features and better safety (disambiguation, confirmation). Vibe has significantly better date parsing via **chrono-node**. The ideal implementation would combine SPIR's architecture with Vibe's date parsing library.

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## Deployment Readiness

Aspect	Vibe	SPIR
<code>next.config.ts</code> standalone	Yes	Yes
Railway config	<code>railway.toml</code> (nixpacks)	No

Aspect	Vibe	SPIR
Dockerfile	No	<b>Yes</b> (multi-stage, non-root)
.gitignore	Yes	Yes
README	No	<b>Yes</b>
Health check	No	No
CI/CD	No	No
Test script in package.json	<b>No</b>	Yes

SPIR’s Dockerfile is production-grade: multi-stage build, non-root user (`nextjs:nodejs`), static assets separated, `HOSTNAME=0.0.0.0`. Vibe relies entirely on Railway’s nixpacks, which is platform-locked.

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## Reviewer Agreement Analysis

Where all three reviewers **agreed**: - SPIR has significantly better test coverage (unanimous) - Both NL parsers are regex-based and will become unmaintainable (unanimous) - Neither has XSS vulnerabilities (React auto-escaping protects both) - No real race conditions in either (single-tab, synchronous storage) - SPIR has better architecture (parser/executor split praised by all)

Where reviewers **disagreed**: - **Gemini rated Vibe maintainability 9/10** vs Claude/Codex at 6/10. Gemini emphasized the small codebase and simplicity; Claude/Codex penalized the lack of abstractions and NL coupling. - **Gemini rated Vibe deployment 9/10** vs Claude at 5/10 and Codex at 4/10. Gemini gave credit for Railway config; Claude/Codex penalized the missing Dockerfile and test script. - **Claude rated Vibe NL 7/10** vs Codex at 5/10. Claude gave credit for chrono-node’s flexibility; Codex focused on the broken update command.

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## Key Takeaways

1. **SPIR’s biggest wins are in testing (+3.7) and deployment (+2.0)**. The structured methodology forced the builder to write comprehensive tests and a production Dockerfile. The vibe builder treated both as afterthoughts.
2. **NL Interface was a draw (6.0 vs 6.0)**. SPIR has more features (disambiguation, bulk ops, confirmation), but Vibe’s `chrono-node` gives it significantly better date handling. Both are limited by regex parsing.
3. **SPIR costs ~74% more code** (1,596 vs 916 source lines) but delivers **7.4x more tests** (1,743 vs 235 test lines). The extra code buys validation, error handling, and safety features the vibe version lacks entirely.
4. **SPIR has a documentation trail** (spec + plan + review + 30 consultation artifacts). A new developer can understand *why* decisions were made. Vibe has a single commit with no rationale.
5. **Vibe’s one clear advantage**: dependency choice. Using `chrono-node` for date parsing was a smart, pragmatic decision that SPIR’s consultation-driven approach didn’t produce. This

suggests CMAP excels at catching bugs and enforcing quality, but doesn't necessarily improve creative problem-solving or library selection.

6. **Both share the same fundamental limitation:** regex-based NL parsing. Neither reviewer panel suggested an LLM-based or proper NLP approach, which would be the real solution for production-quality natural language interfaces.

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## Appendix: Raw Review Outputs

Reviewer	Vibe	SPIR
Claude	Agent a4ff1d0 (deep comparison)	Agent a4ff1d0 (deep comparison)
Codex	<code>/tmp/codex-vibe-review.txt</code>	<code>/tmp/codex-spir-review.txt</code>
Gemini	<code>/tmp/gemini-vibe-review.txt</code>	<code>/tmp/gemini-spir-review.txt</code>