

FinePrint

Check what a release actually changed

Built for the IBM Bob 2.0 Hackathon — an automated release integrity layer that reads your real code diffs and holds commit messages accountable.

Made with GAMMA

THE PROBLEM

Release Notes Lie. Commit Messages Understate.

The picture can't be displayed.

Undisclosed Changes

Teams lose hours manually auditing what actually shipped — a tedious, error-prone process that slows every release cycle.

The picture can't be displayed.

Commit Messages Don't Tell the Whole Story

Existing tools only summarize commit messages — they never verify whether those messages accurately describe the real code diff.

The picture can't be displayed.

No Automated Gate

Without a systematic check, semver violations and dependency bumps slip into production undetected.



THE SOLUTION

FinePrint Reads the Real Diff



FinePrint doesn't trust commit messages. It reads the **actual code diff between two tags** and flags where the diff outgrew its description.

Existing tools miss all three.

Catches undisclosed changes

Flags semver violations

Surfaces dependency major-version bumps

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HOW IT WORKS

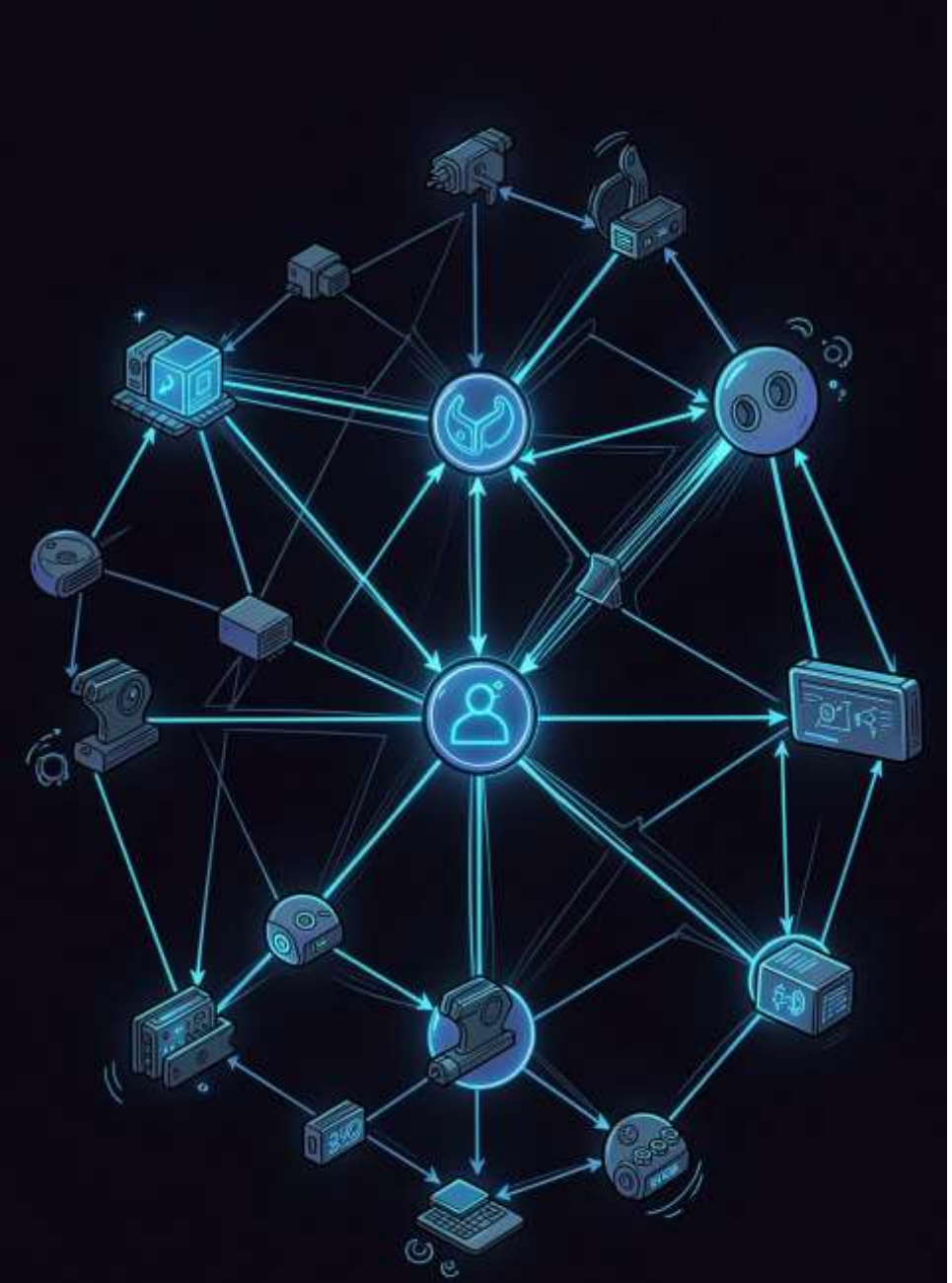
Three Checks. One Clean Receipt.



Diff-Message **Semver** **Dep Bumps**

Each commit between two tags is audited automatically. Results are compiled into an itemized **release receipt** — a clean, scannable health summary with a color-coded bar showing overall release integrity at a glance.

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BUILT WITH IBM BOB 2.0

Agent Architecture, End to End

Agent Mode + Document Understanding

Extracts and parses raw git diffs between tags with precision, feeding structured diff data to downstream agents.

Parallel Subagents

Three subagents run simultaneously — one per check — for fast, non-blocking analysis across the entire release.

Receipt Renderer

A dedicated subagent formats findings into the clean, itemized release receipt with health bar and summary.

Release Notes Generator

Auto-generates accurate, diff-backed release notes — no more guessing what actually shipped.

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DEMO & IMPACT

Real Repo. Real Catches. Zero False Positives.



What the Demo Shows

A real high-traffic open-source repo was tested end-to-end. FinePrint caught a **genuine diff-vs-message mismatch** that the commit message completely understated — and returned **zero false positives** across the full release.

□ Manual Audit

Hours per release, error-prone

⚡ FinePrint

Seconds, fully automated

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WHAT'S NEXT

Roadmap: Deeper Signals, Tighter Integration

1

Public API Signature Diffing

Detect breaking changes in exported APIs even when version numbers don't reflect it.

2

Schema & Migration Risk Flags

Flag database schema changes and migration files that carry hidden production risk.

3

Security-Sensitive File Flags

Surface changes to auth, permissions, or secrets-handling files that warrant extra review.

4

CI/CD Integration

Block releases automatically when critical flags are raised — FinePrint as a required gate.

FinePrint turns release verification from a manual ritual into an automated, trustworthy signal — built on IBM Bob 2.0.

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