

Solo Git Wiki

Welcome to the Solo Git Documentation Wiki

“Tests are the review. Trunk is king. Workpads are ephemeral.”



What is This Wiki?

This wiki serves as the central knowledge base for Solo Git, tracking the project's evolution from concept to feature-complete beta. All documentation is organized chronologically to show the project's development journey.



Chronological Timeline

October 16, 2025



Project Inception

- **Game Plan** ([./timeline/2025-10-16-game-plan.md](#)) - Comprehensive phased roadmap from concept to beta
- **Vision Document** ([./timeline/2025-10-16-vision.md](#)) - Core philosophy and design principles
- **Original Concept** ([./timeline/2025-10-16-concept.md](#)) - The original Solo Git concept (Attenborough voice)



Phase 0: Foundation & Setup

- **Phase 0 Overview** ([./phases/phase-0-overview.md](#)) - Infrastructure setup and foundation
- **Setup Guide** ([./guides/setup-guide.md](#)) - Installation and configuration instructions
- **Phase 0 Completion** ([./phases/phase-0-completion.md](#)) - Summary of Phase 0 deliverables
- **Phase 0 Verification** ([./phases/phase-0-verification.md](#)) - Testing and validation report



Phase 1: Core Git Engine

- **Phase 1 Overview** ([./phases/phase-1-overview.md](#)) - Git engine and workpad system
- **Phase 1 Completion** ([./phases/phase-1-completion.md](#)) - Summary of Phase 1 deliverables
- **Architecture Overview** ([./architecture/core-components.md](#)) - System architecture documentation
- **Status:** ☒ Complete (October 16, 2025)


October 17, 2025




Phase 1 Enhancements

- **Phase 1 Enhancements** ([./phases/phase-1-enhancements.md](#)) - Workpad Management to 100%, Patch Engine to 85%
- **Status:** ☒ Complete (October 17, 2025)
- Workpad Management: **100%** (6 new advanced features)
- Patch Engine: **84%** (7 new major features)
- Test Suite: 82 tests, all passing
- Code Coverage: 81% git engine, 84% patch engine

Phase 2: AI Integration Layer

- **Phase 2 Completion** ([./phases/phase-2-completion.md](#)) - AI orchestration with Abacus.ai APIs
- **Status:**  Complete (October 17, 2025)
- Model Router: **89%** coverage (intelligent model selection)
- Cost Guard: **93%** coverage (budget tracking and enforcement)
- Planning Engine: **79%** coverage (AI-driven code planning)
- Code Generator: **84%** coverage (patch generation)
- AI Orchestrator: **85%** coverage (main coordinator)
- Test Suite: 67 tests, all passing
- Average Coverage: **86%** across all AI components






Phase 3: Test Orchestration & Auto-Merge

- **Phase 3 Completion** ([./phases/phase-3-completion.md](#)) - Complete auto-merge workflow with CI integration
- **Status:**  Complete (October 17, 2025)
- Test Analyzer: **90%** coverage (intelligent failure diagnosis)
- Promotion Gate: **80%** coverage (configurable merge rules)
- Auto-Merge Workflow: Complete test-to-promotion automation
- CI Orchestrator: Post-merge smoke tests with rollback
- Rollback Handler: **62%** coverage (automatic reversion)
- Test Suite: 48 tests, 46 passing (2 Docker-dependent)
- CLI Commands: 5 new commands for Phase 3 workflows

Documentation Structure

By Category

Phases

- [Phase 0: Foundation & Setup](#) ([./phases/phase-0-overview.md](#)) 
- [Phase 1: Core Git Engine](#) ([./phases/phase-1-overview.md](#)) 
- [Phase 2: AI Integration](#) ([./phases/phase-2-overview.md](#)) 
- [Phase 3: Testing & Auto-Merge](#) ([./phases/phase-3-overview.md](#)) 
- [Phase 4: Polish & Beta](#) ([./phases/phase-4-overview.md](#)) 

Architecture

- [System Architecture](#) ([./architecture/core-components.md](#))
- [Git Engine Design](#) ([./architecture/git-engine.md](#))
- [Test Orchestrator Design](#) ([./architecture/test-orchestrator.md](#))
- [AI Model Routing](#) ([./architecture/model-routing.md](#))

Guides


- [Setup Guide](#) ([./guides/setup-guide.md](#))
- [Quick Start](#) ([./guides/quick-start.md](#))
- [CLI Reference](#) ([./guides/cli-reference.md](#))
- [Configuration Reference](#) ([./guides/config-reference.md](#))

Timeline









All documents in chronological order showing project evolution.

Project Status







Current Phase: Phase 3 Complete! 🎉

Status:  Test Orchestration & Auto-Merge fully implemented







Phase 3 Completed:

-  Test Analyzer (90% coverage) - Intelligent failure diagnosis
-  Promotion Gate (80% coverage) - Configurable merge rules
-  Auto-Merge Workflow - Complete test-to-promotion automation
-  CI Orchestrator (30% coverage) - Post-merge smoke tests
-  Rollback Handler (62% coverage) - Automatic reversion
-  Tests (48 tests, 46 passing, 56% average coverage)
-  CLI Commands (5 new commands)
-  Complete documentation





Phase 2 Completed:

-  Model Router (89% coverage) - Intelligent model selection
-  Cost Guard (93% coverage) - Budget tracking and enforcement
-  Planning Engine (79% coverage) - AI-driven code planning
-  Code Generator (84% coverage) - Patch generation from plans
-  AI Orchestrator (85% coverage) - Main coordination layer
-  Tests (67 tests, all passing, 86% average coverage)

Phase 1 Completed:

-  Core Abstractions (Repository, Workpad)
-  Git Engine (89% coverage) - Complete workpad lifecycle
-  Patch Engine (99% coverage) - Advanced diff operations
-  Test Orchestrator (framework) - Docker-based testing
-  CLI Commands - Full repository management
-  Tests (120 tests, 93% passing)

Phase 0 Completed:

-  Project structure and CLI framework
-  Configuration management system
-  API client for Abacus.ai
-  Logging and error handling

Next Milestone

Begin Phase 4 (Polish, Integration & Beta Preparation)




Quick Links

- [GitHub Repository](https://github.com/yourusername/solo-git) (https://github.com/yourusername/solo-git)
- [Abacus.ai Platform](https://abacus.ai) (https://abacus.ai) - API credentials

- [Issue Tracker](https://github.com/yourusername/solo-git/issues) (<https://github.com/yourusername/solo-git/issues>)



Legend

-  Complete
 -  In Progress
 -  Planned
 -  Blocked
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Last Updated: October 17, 2025