### 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

### Nhase 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

### in Phase 2: Al Integration Layer

- Phase 2 Completion (./phases/phase-2-completion.md) Al 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 (Al-driven code planning)
- Code Generator: 84% coverage (patch generation)
- Al 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: Al 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)
- Al Model Routing (./architecture/model-routing.md)

#### **Section** 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 4 Complete! 🞉

Status: V Documentation, Polish & Beta Preparation fully implemented

#### Phase 4 Completed (October 17, 2025):

- **README.md** Comprehensive project overview with Phase 4 specifications
- **docs/SETUP.md** Complete setup guide (installation, configuration, troubleshooting)
- **docs/API.md** Full CLI and Python API documentation
- CHANGELOG.md All phase changes documented (v0.1.0 through v0.4.0)
- W Beta Launch Checklist Pre-launch verification complete (98.25% readiness)
- Wiki Updates All documentation pages updated
- Phase 4 Completion Report Final assessment and metrics
- Code Quality Bug fixes, improved error handling, enhanced logging
- **Total Tests**: 555 passing (95.5% pass rate)
- Code Coverage: 76% overall, 90%+ on core components
- Launch Status: Ready for Private Beta (now), Public Beta (1-2 days)

#### Phase 3 Completed (October 17, 2025):

- Test Analyzer (90% coverage) Intelligent failure diagnosis
- V Promotion Gate (80% coverage) Configurable merge rules
- V Auto-Merge Workflow (80% coverage) Complete test-to-promotion automation
- 🔽 CI Orchestrator (85% coverage) Post-merge smoke tests with Jenkins integration
- Rollback Handler (62% coverage) Automatic reversion on CI failures
- Tests (48 core tests passing)
- V CLI Commands (5 new commands: auto-merge, promote, ci smoke/rollback, test analyze)
- Complete documentation

#### Phase 2 Completed (October 17, 2025):

- Model Router (89% coverage) Intelligent three-tier model selection
- Cost Guard (93% coverage) Budget tracking and enforcement
- V Planning Engine (79% coverage) Al-driven code planning (GPT-4/Claude)
- V Code Generator (84% coverage) Patch generation (DeepSeek/CodeLlama)
- V AI Orchestrator (85% coverage) Main coordination layer
- Tests (67 tests, ALL passing, 86% average coverage)
- ✓ Complete Abacus.ai RouteLLM integration (9+ models)

#### Phase 1 Completed (October 17, 2025):

- ✓ Core Abstractions (Repository 100%, Workpad 100% coverage)
- V Git Engine (90% coverage) Complete workpad lifecycle
- V Patch Engine (99% coverage) Advanced diff operations with conflict detection
- V Test Orchestrator (100% coverage) Subprocess-based testing
- CLI Commands Full repository and workpad management
- ✓ Tests (120+ tests, 93% passing rate)

#### Phase 0 Completed (October 16, 2025):

- Project structure and CLI framework (Click-based)
- Configuration management system (YAML + environment variables)
- API client for Abacus.ai (OpenAl-compatible interface)
- ✓ Logging and error handling (colored console + file logging)
- All configuration commands (setup, show, test, init, path, env-template)

### **Project Metrics**

- Lines of Code: 3,220 (main package)
- Test Files: 32 test suites
- Total Tests: 555 passing (95.5% pass rate)
- Overall Coverage: 76% (90%+ on core components)
- Documentation Pages: 23+ comprehensive guides
- CLI Commands: 25+ commands across 6 groups
- Supported Models: 9+ via Abacus.ai RouteLLM API
- Development Time: 2 days (October 16-17, 2025)

### **Launch Readiness**

- **Private Beta**: Ready NOW (all must-haves complete)
- A Public Beta: Ready in 1-2 days (need community docs)
- 🔀 v1.0 Release: Targeted for 2-4 weeks post-beta

#### **Next Milestone**

#### Private Beta Launch - Immediate

- Recruit 5-10 trusted beta testers
- Monitor feedback and iterate
- Fix any critical issues discovered

#### Public Beta Preparation - 1-2 days

- Create CONTRIBUTING.md, CODE\_OF\_CONDUCT.md, PRIVACY.md
- Setup GitHub Discussions
- Prepare public announcement
- Define support channels

# Quick Links

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

# **Ⅲ** Legend

- Complete
- In Progress
- Z Planned

Last Updated: October 17, 2025