

# Semgrep vs SonarQube

A vendor-neutral technical comparison for security teams | March 2026



[konvu.com/compare/semgrep-vs-sonarqube](https://konvu.com/compare/semgrep-vs-sonarqube)

**TL;DR** Semgrep is the stronger security scanner with best-in-class custom rules and SCA reachability. SonarQube is the stronger code quality enforcer with mature quality gates and self-hosted deployment. They are complementary. Most teams that need both security and quality run both.

## Head-to-head overview

Category	Semgrep	SonarQube
Origin	Security-first SAST (2020), added SCA (2022) and Secrets	Code quality-first (2007), added SCA in 2025 (Enterprise add-on)
SAST approach	Pattern matching + taint analysis (YAML rules, transparent, highly extensible)	AST pattern matching + taint analysis (Dev Edition+, transparent, customizable via Java)
SCA approach	Supply Chain: 14 languages, 15+ pkg managers, reachability analysis	Advanced Security add-on: ~5 ecosystems, no reachability, Enterprise-only
Custom rules	YAML rules using target language syntax. 20K+ Pro rules, 2.4K+ community rules	Java plugin API (steep), XPath (limited languages), 6,500+ built-in rules
Scan speed	Fast: ~10s diff-aware PR scans. SaaS-first, no infrastructure needed	Slower: client-server architecture adds latency. Single queue on Community
Enterprise	SaaS-first, SSO (Team+), limited RBAC, no FedRAMP, Managed Scans	Self-hosted (full data control), compliance reporting (OWASP, CWE, STIG, PCI DSS)

## What independent benchmarks show

Source	Metric	Semgrep	SonarQube
EASE 2024 (ACM)	Detection rate (default config)	CE: 14.3%. Custom rules: 44.7%	Not tested
DryRun Security 2025	Seeded vuln detection (default)	46% (12/26)	19% (5/26)
Doyensec 2025	CE vs Pro true positives	CE: 44-48%, Pro: 72-75%	Not tested
Lenarduzzi 2021 (Springer)	True positive rate (all warnings)	No academic data	18% (82% FP rate, all warning types)
G2 / Gartner	Reviews and ratings	G2: 4.7/5. Gartner MQ 2025 (Niche Player)	G2: 4.4/5. Forrester Wave SAST Q3 2025

## Pricing at a glance

Company size	Semgrep (estimated)	SonarQube (estimated)
Startup (<20 devs)	Free tier: Pro engine, all rules, SCA, Secrets (10 contributors)	Community Build free (no taint, no branches); Developer ~\$720-\$2.5K/yr
Mid-market (20-200 devs)	~\$8.4K-\$84K/yr (Team at \$35/contributor/mo per product)	Developer ~\$2.5-10K/yr; Enterprise ~\$20-35K/yr. Unlimited users
Enterprise (200+ devs)	\$50K-\$193K+/yr (custom). Per-contributor pricing scales with team	Enterprise ~\$20-70K/yr + infra costs. LOC-based: cheaper at scale

## When to pick which

### Pick Semgrep when:

- Security scanning is the primary driver (2.4x more detections vs SQ)
- Custom rules matter (YAML rules, 20K+ registry, write in minutes)
- SCA with reachability needed (14 languages, ~98% noise reduction)
- Small team on a budget (free tier includes Pro engine for 10 devs)

### Pick SonarQube when:

- Code quality enforcement matters (quality gates, coverage, tech debt)
- Self-hosted deployment required (full data control, on-prem)
- Budget constrained at scale (LOC pricing, unlimited users)
- Legacy language support needed (COBOL, ABAP, PL/SQL, RPG)

Sources: EASE 2024 (ACM), DryRun Security 2025, Doyensec 2025, Lenarduzzi et al. 2021 (Springer), G2, Gartner Peer Insights, Vendor articles [konvu.com/compare/semgrep-vs-sonarqube](https://konvu.com/compare/semgrep-vs-sonarqube)  
The bottleneck is rarely detection. It's triage. If triage is still the problem, that's what Konvu solves. [konvu.com/demo](https://konvu.com/demo)