R Package Validation Report — Tier 1 Screening

crayon 1.5.3

Package	crayon
Version	1.5.3 [EV-002]
Origin	cran [EV-009]
Tarball sha256	3e74a0685541efb5ea763b92cfd5c859df71c46b0605967a0b5dbb7326e9da69 [EV-008]
Intended-use tier	gxp-support
Report generated (UTC)	2026-10-24T09:49:50Z

Decision

GO-WITH-CONDITIONS — overall risk score 0.2905 [EV-023]

0 = low risk, 1 = high; config v1.1.0

Rules evaluated (fired or not, with inputs and thresholds):

Rule	Input	Condition	Fired
overall_score_threshold	0.2905	score ¡ 0.2000 / 0.4000	**FIRED**
news_missing	1	¿ 0.5000	**FIRED**
news_not_measurable	1	is_na	no
low_downloads	1078642	¡ 1000	no
bugs_mostly_open	0.9667	¿ 0.5000	**FIRED**
no_source_control	r-lib/crayon	is_na	no
exports_undocumented	0.9783	¿ 0.5000	**FIRED**
license_risk	(no input)	¿ 0.0000	no
heavy_dependencies	0.6225	¿ 0.5000	**FIRED**

Conditions

- NEWS not current — pin the assessed version and re-check on update.
- Majority of recent issues unresolved — review the bug tracker before use.
- Exported functions lack documentation — require documentation review for functions in scope.
- Large dependency footprint — each dependency needs its own screening decision.

Per-Metric Breakdown ({riskmetric})

Metric	Risk (0–1)	Evidence
bugs_status	0.9667	EV-024
dependencies	0.6225	EV-025
downloads_1yr	0.9890	EV-026
export_help	0.9783	EV-027
exported_namespace	0.3904	EV-028
has_bug_reports_url	1	EV-029
has_examples	1	EV-030
has_maintainer	1	EV-031

Metric	Risk (0–1)	Evidence
has_news	1	EV-032
has_source_control	1	EV-033
has_vignettes	0	EV-034
has_website	1	EV-035
news_current	1	EV-036
reverse_dependencies	0.9999	EV-037
size_codebase	0.1142	EV-038

Scoring Strategy & Category Subscores

Category	Weight	Subscore (0–1 risk)	Member metrics
code	0.5000	0.3757	dependencies: 0.6225 [EV-025], exported_namespace: 0.3904 [EV-028], remote_checks: NA, size_codebase: 0.1142 [EV-038]
documentation	0.1500	0.8297	export_help: 0.9783 [EV-027], has_examples: 1 [EV-030], has_news: 1 [EV-032], has_vignettes: 0 [EV-034], has_website: 1 [EV-035], license: NA, news_current: 1 [EV-036]
maintenance	0.2000	0.9917	bugs_status: 0.9667 [EV-024], has_bug_reports_url: 1 [EV-029], has_maintainer: 1 [EV-031], has_source_control: 1 [EV-033]
popularity	0.1500	0.9945	downloads_1yr: 0.9890 [EV-026], reverse_dependencies: 0.9999 [EV-037]

Rubric: each category subscore is the equal-weighted mean of its member metrics' non-null riskmetric scores (0 = low risk, 1 = high risk); weights disclose the relative importance of each category. Category subscores are display-only — the overall score and the decision thresholds are unchanged.

Classification & Sign-off

Not classified — no intended use or justification was recorded for this assessment.

Risk classification: PENDING HUMAN REVIEW — this tool does not classify.
Sign-off: PENDING HUMAN REVIEW — machine-generated screening output; human QA sign-off pending. This tool never signs.

Evidence Register

ID	Metric	Value	Mode
EV-001	description.package	crayon	local
EV-002	description.version	1.5.3	local
EV-003	description.title	Colored Terminal Output	local
EV-004	description.license	MIT + file LICENSE	local
EV-005	description.maintainer	Gábor Csárdi ¡csardi.gabor@gmail.com¿	local
EV-006	description.url	https://r-lib.github.io/crayon/, https://github.com/r-lib...	local
EV-007	description.bug_reports	https://github.com/r-lib/crayon/issues	local
EV-008	tarball.sha256	3e74a0685541efb5ea763b92cfd5c859df71c46b0605967a0b5dbb732...	local
EV-009	ingest.origin	cran	local

ID	Metric	Value	Mode
EV-010	ingest.source_url	https://cran.r-project.org/src/contrib/crayon_1.5.3.tar.gz	local
EV-011	cran.version	1.5.3	network
EV-012	cran.title	Colored Terminal Output	network
EV-013	cran.maintainer	Gábor Csárdi ¡csardi.gabor@gmail.com¿	network
EV-014	cran.license	MIT + file LICENSE	network
EV-015	cran.url	https://r-lib.github.io/crayon/, https://github.com/r-lib...	network
EV-016	cran.imports_count	3	network
EV-017	downloads.last_month_total	1078642	network
EV-018	github.repo	r-lib/crayon	network
EV-019	github.stars	324	network
EV-020	github.forks	39	network
EV-021	github.open_issues	1	network
EV-022	github.last_push	2025-10-21T08:42:52Z	network
EV-023	riskmetric.overall_score	0.2905	riskmetric
EV-024	riskmetric.score.bugs_status	0.9667	riskmetric
EV-025	riskmetric.score.dependencies	0.6225	riskmetric
EV-026	riskmetric.score.downloads_1yr	0.9890	riskmetric
EV-027	riskmetric.score.export_help	0.9783	riskmetric
EV-028	riskmetric.score.exported_namespace	0.3904	riskmetric
EV-029	riskmetric.score.has_bug_reports_url	1	riskmetric
EV-030	riskmetric.score.has_examples	1	riskmetric
EV-031	riskmetric.score.has_maintainer	1	riskmetric
EV-032	riskmetric.score.has_news	1	riskmetric
EV-033	riskmetric.score.has_source_control	1	riskmetric
EV-034	riskmetric.score.has_vignettes	0	riskmetric
EV-035	riskmetric.score.has_website	1	riskmetric
EV-036	riskmetric.score.news_current	1	riskmetric
EV-037	riskmetric.score.reverse_dependencies	0.9999	riskmetric
EV-038	riskmetric.score.size_codebase	0.1142	riskmetric
EV-039	riskmetric.raw.downloads_1yr	13455456	riskmetric
EV-040	riskmetric.raw.has_bug_reports_url	1	riskmetric
EV-041	riskmetric.raw.has_maintainer	Gábor Csárdi ¡csardi.gabor@gmail.com¿	riskmetric
EV-042	riskmetric.raw.has_news	1	riskmetric
EV-043	riskmetric.raw.has_source_control	https://github.com/r-lib/crayon	riskmetric
EV-044	riskmetric.raw.has_vignettes	0	riskmetric
EV-045	riskmetric.raw.license	MIT + file LICENSE	riskmetric
EV-046	riskmetric.raw.news_current	TRUE	riskmetric
EV-047	riskmetric.raw.size_codebase	1164	riskmetric
EV-048	riskmetric.excluded_metrics	assess_covr_coverage, assess_r_cmd_check	riskmetric

Tier-2 Sandbox Validation

Deep validation in a throwaway R sandbox (package code executed in isolation): R CMD check, the package's own test suite and test coverage, pinned to the recorded CRAN snapshot.

Annex: System Information

Generator: rval-gateway 0.8.0 (Python stdlib); R version 4.5.3 (2026-03-11); {riskmetric} 0.2.7; decision config v1.1.0 (sha256 4ae212e568b1c6e68225170e
evidence collection mode: network.

Evidence collected at (UTC)	2026-10-24T09:44:02Z
Assessment scored at (UTC)	2026-10-24T09:44:01Z
Network sources ok / failed	3 / 0

Approval Timeline

Audit-chain events for this package (assessment → electronic signature → repository publish), in chain order; details carry the sha256 record-hash prefix of each tamper-evident audit record.

Event	Actor	Timestamp (UTC)	Detail / record
assessment	public-demo-refresh	2026-10-24T09:44:02Z	GO-WITH-CONDITIONS (tier gxp-support, score 0.2905) [9d005a5456a8]

Provenance. Generator: rval-gateway 0.8.0 (Python stdlib). Scores computed by an R subprocess: R version 4.5.3 (2026-03-11), {riskmetric} 0.2.7 (two-process pattern; code-executing metrics excluded — assessed package code was not executed). Decision config v1.1.0 (sha256 4ae212e568b1). Evidence collection mode: network. Hard rule: no statement without an evidence ID; sections lacking evidence are suppressed. Tier-1 screening output under a two-tier strategy; metrics inform a qualified human's assessment and are not a proof of correctness.