

98 symbols glossary

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1 API Symbols Glossary

This glossary is auto-generated from the public API in `...` by `...`.

Module	Name	Kind	Summary
<code>...</code>	<code>class</code>	class	Container for build verification results.
<code>...</code>	<code>function</code>	function	Calculate hash of a file for integrity verification.
<code>...</code>	<code>function</code>	function	Create a comprehensive build validation report.
<code>...</code>	<code>function</code>	function	Create a comprehensive build verification script.
<code>...</code>	<code>function</code>	function	Create a comprehensive build report combining all verification results.
<code>...</code>	<code>function</code>	function	Create an integrity manifest for build verification.
<code>...</code>	<code>function</code>	function	Load integrity manifest from file.
<code>...</code>	<code>function</code>	function	Run a build command and capture output.
<code>...</code>	<code>function</code>	function	Save integrity manifest to file.

Module	Name	Kind	Summary
		function	Validate build configuration and settings.
		function	Validate that a build script is properly structured.
		function	Verify that expected build artifacts are present and correct.
		function	Verify that the build environment is properly configured.
		function	Verify build integrity against a baseline.
		function	Verify build reproducibility by running build multiple times.
		function	Verify consistency between dependency files.
		function	Verify integrity between two manifests.
		function	Verify that output directory has expected structure.
		function	Add two numbers together.
		function	Calculate the average of a list of numbers.
		function	Find the maximum value in a list of numbers.
		function	Find the minimum value in a list of numbers.
		function	Check if a number is even.
		function	Check if a number is odd.
		function	Multiply two numbers together.

Module	Name	Kind	Summary
		class	Represents a public API entry from source code.
		function	Scan <code>_</code> and collect public functions/classes with summaries.
		function	Generate a Markdown table from API entries.
		function	Replace content between <code>begin_marker</code> and <code>end_marker</code> (inclusive markers preserved).
		class	Container for integrity verification results.
		function	Calculate hash of a file for integrity verification.
		function	Check file permissions and accessibility.
		function	Create an integrity manifest for all output files.
		function	Generate a human-readable integrity report.
		function	Load integrity manifest from file.
		function	Save integrity manifest to file.
		function	Validate that all expected build artifacts are present and correct.
		function	Verify compliance with academic writing standards.
		function	Verify cross-reference integrity in markdown files.
		function	Verify data file consistency and integrity.

Module	Name	Kind	Summary
		function	Verify file integrity using hash comparison.
		function	Verify current integrity against a saved manifest.
		function	Verify that all expected outputs are present and complete.
		function	Perform comprehensive integrity verification of all outputs.
		class	Raised when PDF validation encounters an error.
		function	Extract the first N words from text, preserving punctuation.
		function	Extract all text content from a PDF file.
		function	Scan extracted text for common rendering issues.
		function	Perform comprehensive validation of PDF rendering.
		class	Container for citation style configuration.
		class	Container for publication metadata.
		function	Calculate a complexity score for the publication.
		function	Calculate hash of a file for integrity verification.
		function	Create academic profile data for ORCID, ResearchGate, etc.
		function	Create a publication announcement for social media and blogs.

Module	Name	Kind	Summary
		function	Create a publication package with all necessary files.
		function	Create repository metadata for GitHub repository.
		function	Create a submission checklist for academic conferences/journals.
		function	Extract all citations from markdown files.
		function	Extract publication metadata from markdown files.
		function	Format authors for APA style.
		function	Format authors for MLA style.
		function	Generate APA citation format.
		function	Generate BibTeX citation format.
		function	Generate MLA citation format.
		function	Generate markdown section with all citation formats.
		function	Generate DOI badge markdown.
		function	Generate publication metrics for reporting.
		function	Generate a publication summary for repository README.
		function	Validate DOI format and checksum.
		function	Validate that the project is ready for publication.

Module	Name	Kind	Summary
		class	Container for document quality metrics.
		function	Analyze compliance with academic writing standards.
		function	Analyze various document metrics for quality assessment.
		function	Perform comprehensive quality analysis of a research document.
		function	Analyze document formatting quality.
		function	Analyze text readability using multiple metrics.
		function	Analyze document structural integrity.
		function	Calculate overall quality score from individual metrics.
		function	Check document accessibility features.
		function	Count syllables in text using a simple heuristic.
		function	Count syllables in a single word.
		function	Extract detailed text information from PDF for quality analysis.
		function	Generate a human-readable quality report.
		function	Validate that a research document contains all expected sections.
		class	Container for reproducibility analysis results.

Module	Name	Kind	Summary
		function	Calculate hash of all files in a directory.
		function	Calculate hash of a file for integrity verification.
		function	Capture dependency information for reproducibility.
		function	Capture the current environment state for reproducibility.
		function	Compare two version snapshots for changes.
		function	Create environment configuration for reproducible builds.
		function	Create a template for reproducible research scripts.
		function	Create a version snapshot of the current build for future comparison.
		function	Generate a comprehensive build manifest for reproducibility.
		function	Generate comprehensive reproducibility report.
		function	Load reproducibility report from file.
		function	Save build manifest to file.
		function	Save reproducibility report to file.
		function	Validate that experiment results are reproducible within tolerance.
		function	Verify build integrity against a saved manifest.

Module	Name	Kind	Summary
		function	Verify reproducibility by comparing current and previous reports.
		class	Container for benchmark results.
		class	Container for numerical stability test results.
		function	Benchmark function performance across multiple inputs.
		function	Check numerical stability of a function across a range of inputs.
		function	Check function compliance with research software standards.
		function	Create a template for a new scientific module.
		function	Create a comprehensive test suite for a scientific module.
		function	Create a template for scientific research workflows.
		function	Generate comprehensive API documentation for a scientific module.
		function	Generate a performance analysis report.
		function	Generate scientific documentation for a function.
		function	Validate that a module follows scientific computing best practices.
		function	Validate scientific implementation against known test cases.