



Static Code Analysis



IF YOU DON'T COMPROMISE ON **CODE SECURITY**, WHY COMPROMISE ON **CODE QUALITY**?

Lear how DerScanner brings code quality and security vulnerability detection into one unified platform.

Key Features

Here's how the new enhancements directly empower developers and coding enthusiasts to write better code across supported languages:

JAVASCRIPT/TYPESCRIPT/TSX BEST PRACTICES

- **Better Readability with Modern Standards:** Switch to `[]` literals instead of the `Array` constructor for cleaner, modern coding practices and error prevention.
 - **Structured Arrow Functions:** Add brackets around arrow function parameters to simplify the reading and modification of complex expressions.
 - **Google-Recommended Practices:** Replace `apply` with the spread syntax for concise, intuitive parameter handling.
 - **CamelCase Naming Style:** Follow industry naming conventions for variables and functions to improve clarity and maintainability.
 - **Consistent Formatting & Logic Clarity:** Unified curly brace formatting and block structuring to aid readability and reduce logical errors.
 - **And more!**
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DELPHI/PASCAL BEST PRACTICES

- **Streamlined Naming Conventions:**
 - Names of user-defined types now start with `T` for clear identification.
 - Exceptions begin with `E`, pointer types with `P`, and interface names with `I`, ensuring seamless recognition in complex codebases.
- **Enhanced Error Handling:**
 - Opt for `TryStrToInt` and `TryStrToFloat` instead of older methods for better error management in string-to-number conversions.

- **Simplified Visibility & Order:**

- Maintain standard ordering for visibility sections (private, protected, public, published) to optimize maintainability.
- Class fields are now strictly reserved for the private section, ensuring encapsulation and minimizing errors.

- **Avoid Confusing Practices:**

- Stay away from identifiers that mix similar characters (``0`/`0``, ``l`/`1``) and ensure variable names don't mirror system directives for easier debugging.

- **Modern Constructor & Destructor Naming:**

- Use ``Create`` for constructors and ``Destroy`` for destructors to ensure instant recognition of class behaviors.

- **And more!**

UNIVERSAL BEST PRACTICES

- **Avoid Duplicated Code:**

- Streamline workflows and prevent errors with the DRY (Don't Repeat Yourself) principle, enforced across all supported languages.

- **Perceptual Complexity Minimization:**

- Reduce nesting and convoluted branching to make your code easier for teams to review and maintain.

- **Error-Free Line Breaks:**

- Avoid invalid characters like LSEP (Line Separator) and standardize line formatting across projects for seamless compilation.

- **Consistent Documentation:**

- Clear, uniform comment formatting ensures your team can instantly interpret code annotations.

- **And more!**

By following these new recommendations, you'll spend less time debugging and more time building solutions that matter.

Why This Matters to Developers

Technical debt creeps up fast when code isn't up to scratch. These new rules are designed to keep your projects future-proof while enhancing teamwork and readability. Imagine reduced errors, faster onboarding for new developers, and easier debugging—all while maintaining super-clean syntax.

Key Benefits

Here's how these standards help you:

- Avoid confusion in collaborative environments with clear, consistent coding conventions.
- Protect your applications by reducing logic errors, deprecated practices, and memory leaks.
- Save time and effort with structured formatting, meaning updates or changes can be applied more quickly across the codebase.
- Create a seamless onboarding experience for teams unfamiliar with older or ambiguous code standards.



GO BEYOND STANDALONE TOOLS

You might have relied on third-party static code quality analysis tools in the past. Now, DerScanner brings code quality and security vulnerability detection into one unified platform. Say goodbye to managing separate tools and hello to an all-in-one solution that doesn't just identify issues but also offers actionable insights.





Start Writing Better Code Today

While this update focuses on Delphi/Pascal and JavaScript/TypeScript in beta, we're working on expanding our support to more languages soon. Stay tuned for more updates!

It's time to take your code quality to the next level—and DerScanner is here to help. **Don't compromise on your standards.** Durability, maintainability, and readability are just one scan away.

About DerSecur

DerSecur, established in 2011, is at the forefront of application security. Its team of 70 experts has developed DerScanner, a versatile application security solution that supports 43 programming languages and provides static, dynamic and software composition analysis. DerSecur is committed to furthering cybersecurity research and development, ensuring a more secure digital future.

<https://derscanner.com/>

