**Objective C static code analysis**

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your OBJECTIVE C code

["memset" should not be used to delete sensitive data](https://rules.sonarsource.com/objective-c/RSPEC-5798)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-5798)

[POSIX functions should not be called with arguments that trigger buffer overflows](https://rules.sonarsource.com/objective-c/RSPEC-5782)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-5782)

[Function-like macros should not be invoked without all of their arguments](https://rules.sonarsource.com/objective-c/RSPEC-961)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-961)

[The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist](https://rules.sonarsource.com/objective-c/RSPEC-946)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-946)

["pthread\_mutex\_t" should be unlocked in the reverse order they were locked](https://rules.sonarsource.com/objective-c/RSPEC-5489)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5489)

["pthread\_mutex\_t" should be properly initialized and destroyed](https://rules.sonarsource.com/objective-c/RSPEC-5487)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5487)

["pthread\_mutex\_t" should not be consecutively locked or unlocked twice](https://rules.sonarsource.com/objective-c/RSPEC-5486)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5486)

[Functions with "noreturn" attribute should not return](https://rules.sonarsource.com/objective-c/RSPEC-5267)

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["memcmp" should only be called with pointers to trivially copyable types with no padding](https://rules.sonarsource.com/objective-c/RSPEC-5000)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5000)

[Stack allocated memory and non-owned memory should not be freed](https://rules.sonarsource.com/objective-c/RSPEC-3590)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3590)

[Closed resources should not be accessed](https://rules.sonarsource.com/objective-c/RSPEC-3588)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3588)

[Dynamically allocated memory should be released](https://rules.sonarsource.com/objective-c/RSPEC-3584)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3584)

[Freed memory should not be used](https://rules.sonarsource.com/objective-c/RSPEC-3529)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3529)

[Memory locations should not be released more than once](https://rules.sonarsource.com/objective-c/RSPEC-3520)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3520)

[Memory access should be explicitly bounded to prevent buffer overflows](https://rules.sonarsource.com/objective-c/RSPEC-3519)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3519)

[Printf-style format strings should not lead to unexpected behavior at runtime](https://rules.sonarsource.com/objective-c/RSPEC-2275)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2275)

[Recursion should not be infinite](https://rules.sonarsource.com/objective-c/RSPEC-2190)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2190)

[Resources should be closed](https://rules.sonarsource.com/objective-c/RSPEC-2095)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2095)

[Hard-coded credentials are security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-2068)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-2068)

["goto" should jump to labels declared later in the same function](https://rules.sonarsource.com/objective-c/RSPEC-999)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-999)

[Only standard forms of the "defined" directive should be used](https://rules.sonarsource.com/objective-c/RSPEC-969)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-969)

[Switch labels should not be nested inside non-switch blocks](https://rules.sonarsource.com/objective-c/RSPEC-916)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-916)

[The right-hand operands of && and || should not contain side effects](https://rules.sonarsource.com/objective-c/RSPEC-912)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-912)

[Digraphs should not be used](https://rules.sonarsource.com/objective-c/RSPEC-798)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-798)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-797)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3936)

[Array indices should be placed between brackets](https://rules.sonarsource.com/objective-c/RSPEC-3729)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3729)

[Redundant pointer operator sequences should be removed](https://rules.sonarsource.com/objective-c/RSPEC-3491)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3491)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1912)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1909)

[Switch cases should end with an unconditional "break" statement](https://rules.sonarsource.com/objective-c/RSPEC-128)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-128)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1219)

[Control should not be transferred into a complex logic block using a "goto" or a "switch" statement](https://rules.sonarsource.com/objective-c/RSPEC-1036)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1036)

[Accessing files should not introduce TOCTOU vulnerabilities](https://rules.sonarsource.com/objective-c/RSPEC-5847)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-5847)

[Cipher algorithms should be robust](https://rules.sonarsource.com/objective-c/RSPEC-5547)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-5547)

[Encryption algorithms should be used with secure mode and padding scheme](https://rules.sonarsource.com/objective-c/RSPEC-5542)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-5542)

[Server certificates should be verified during SSL/TLS connections](https://rules.sonarsource.com/objective-c/RSPEC-4830)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-4830)

[Cryptographic keys should be robust](https://rules.sonarsource.com/objective-c/RSPEC-4426)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-4426)

[Insecure functions should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1081)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-1081)

["scanf()" and "fscanf()" format strings should specify a field width for the "%s" string placeholder](https://rules.sonarsource.com/objective-c/RSPEC-1079)

[Vulnerability](https://rules.sonarsource.com/objective-c/RSPEC-1079)

[Function exit paths should have appropriate return values](https://rules.sonarsource.com/objective-c/RSPEC-935)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-935)

["volatile" should not be used to qualify objects for which the meaning is not defined](https://rules.sonarsource.com/objective-c/RSPEC-6200)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-6200)

[Relational and subtraction operators should not be used with pointers to different arrays](https://rules.sonarsource.com/objective-c/RSPEC-5658)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5658)

[Arguments evaluation order should not be relied on](https://rules.sonarsource.com/objective-c/RSPEC-5570)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5570)

[Parameter values should be appropriate](https://rules.sonarsource.com/objective-c/RSPEC-3807)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3807)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3518)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2323)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1767)

["return" statements should not occur in "finally" blocks](https://rules.sonarsource.com/objective-c/RSPEC-1143)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1143)

["sprintf" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-6069)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-6069)

[Changing working directories without verifying the success is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5982)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5982)

[Using "tmpnam", "tmpnam\_s" or "tmpnam\_r" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5824)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5824)

[Changing directories improperly when using "chroot" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5802)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5802)

[Using publicly writable directories is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5443)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5443)

[Using clear-text protocols is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5332)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5332)

[Expanding archive files without controlling resource consumption is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5042)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5042)

[Using weak hashing algorithms is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-4790)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-4790)

[Using pseudorandom number generators (PRNGs) is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-2245)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-2245)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-959)

[Function names should be used either as a call with a parameter list or with the "&" operator](https://rules.sonarsource.com/objective-c/RSPEC-936)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-936)

[Functions should not be defined with a variable number of arguments](https://rules.sonarsource.com/objective-c/RSPEC-923)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-923)

[A cast shall not remove any const or volatile qualification from the type of a pointer or reference](https://rules.sonarsource.com/objective-c/RSPEC-859)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-859)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-820)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-819)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5488)

[Appropriate arguments should be passed to stream functions](https://rules.sonarsource.com/objective-c/RSPEC-5485)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5485)

[Blocking functions should not be called inside critical sections](https://rules.sonarsource.com/objective-c/RSPEC-5314)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5314)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5308)

[Size of variable length arrays should be positive](https://rules.sonarsource.com/objective-c/RSPEC-5283)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5283)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5281)

["mktemp" family of functions templates should have at least six trailing "X"s](https://rules.sonarsource.com/objective-c/RSPEC-5280)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5280)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5263)

[Header guards should be followed by according "#define" macro](https://rules.sonarsource.com/objective-c/RSPEC-5259)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5259)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-4524)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3973)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3972)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3776)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3485)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2479)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1836)

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[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1831)

[The sign of an unsigned variable should not be tested](https://rules.sonarsource.com/objective-c/RSPEC-1768)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1768)

[Pre-defined macros should not be defined, redefined or undefined](https://rules.sonarsource.com/objective-c/RSPEC-1761)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1761)

[Control flow statements "if", "for", "while", "switch" and "try" should not be nested too deeply](https://rules.sonarsource.com/objective-c/RSPEC-134)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-134)

[Methods should not be empty](https://rules.sonarsource.com/objective-c/RSPEC-1186)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1186)

[Exceptions should not be thrown in finally blocks](https://rules.sonarsource.com/objective-c/RSPEC-1163)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1163)

[Account validity should be verified when authenticating users with PAM](https://rules.sonarsource.com/objective-c/RSPEC-5832)

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[Lines starting with "#" should contain valid preprocessing directives](https://rules.sonarsource.com/objective-c/RSPEC-977)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-977)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-956)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-955)

[Non-empty statements should change control flow or have at least one side-effect](https://rules.sonarsource.com/objective-c/RSPEC-905)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-905)

[Unary minus should not be applied to an unsigned expression](https://rules.sonarsource.com/objective-c/RSPEC-876)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-876)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-860)

[Variables should be initialized before use](https://rules.sonarsource.com/objective-c/RSPEC-836)

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[Enums should be consistent with the bit fields they initialize](https://rules.sonarsource.com/objective-c/RSPEC-5491)

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[Array values should not be replaced unconditionally](https://rules.sonarsource.com/objective-c/RSPEC-4143)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-4143)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3935)

[All branches in a conditional structure should not have exactly the same implementation](https://rules.sonarsource.com/objective-c/RSPEC-3923)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3923)

[Declaration specifiers should not be redundant](https://rules.sonarsource.com/objective-c/RSPEC-3689)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3689)

["sizeof" should not be called on pointers](https://rules.sonarsource.com/objective-c/RSPEC-3135)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-3135)

[Unary prefix operators should not be repeated](https://rules.sonarsource.com/objective-c/RSPEC-2761)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2761)

["=+" should not be used instead of "+="](https://rules.sonarsource.com/objective-c/RSPEC-2757)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2757)

[Values of different "enum" types should not be compared](https://rules.sonarsource.com/objective-c/RSPEC-2753)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2753)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2259)

[Single-bit named bit fields should not be of a signed type](https://rules.sonarsource.com/objective-c/RSPEC-2216)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2216)

[Values should not be uselessly incremented](https://rules.sonarsource.com/objective-c/RSPEC-2123)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2123)

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[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1913)

[Related "if/else if" statements should not have the same condition](https://rules.sonarsource.com/objective-c/RSPEC-1862)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1862)

[Identical expressions should not be used on both sides of a binary operator](https://rules.sonarsource.com/objective-c/RSPEC-1764)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1764)

[All code should be reachable](https://rules.sonarsource.com/objective-c/RSPEC-1763)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1763)

[Loops with at most one iteration should be refactored](https://rules.sonarsource.com/objective-c/RSPEC-1751)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1751)

[Variables should not be self-assigned](https://rules.sonarsource.com/objective-c/RSPEC-1656)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1656)

[Condition-specific "catch" handlers should not be used after the ellipsis (catch-all) handler](https://rules.sonarsource.com/objective-c/RSPEC-1046)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1046)

[Setting capabilities is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5849)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5849)

[Using "strncpy" or "wcsncpy" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5816)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5816)

[Using "strncat" or "wcsncat" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5815)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5815)

[Using "strcat" or "wcscat" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5814)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5814)

[Using "strlen" or "wcslen" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5813)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5813)

[Using "strcpy" or "wcscpy" is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-5801)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-5801)

[Setting loose POSIX file permissions is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-2612)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-2612)

[#include directives in a file should only be preceded by other preprocessor directives or comments](https://rules.sonarsource.com/objective-c/RSPEC-954)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-954)

[Loops should not have more than one "break" or "goto" statement](https://rules.sonarsource.com/objective-c/RSPEC-924)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-924)

[Unused type declarations should be removed](https://rules.sonarsource.com/objective-c/RSPEC-897)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-897)

[Comma operator should not be used](https://rules.sonarsource.com/objective-c/RSPEC-878)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-878)

["bool" expressions should not be used as operands to built-in operators other than =, &&, ||, !, ==, !=, unary &, and the conditional operator](https://rules.sonarsource.com/objective-c/RSPEC-872)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-872)

["enum" members other than the first one should not be explicitly initialized unless all members are explicitly initialized](https://rules.sonarsource.com/objective-c/RSPEC-841)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-841)

[Functions should not be declared at block scope](https://rules.sonarsource.com/objective-c/RSPEC-824)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-824)

[Bit fields should be declared with appropriate types](https://rules.sonarsource.com/objective-c/RSPEC-814)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-814)

[Size of bit fields should not exceed the size of their types](https://rules.sonarsource.com/objective-c/RSPEC-5494)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5494)

[GNU attributes should be used correctly](https://rules.sonarsource.com/objective-c/RSPEC-5297)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5297)

[Unevaluated operands should not have side effects](https://rules.sonarsource.com/objective-c/RSPEC-5279)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5279)

[Size argument of memory functions should be consistent](https://rules.sonarsource.com/objective-c/RSPEC-5278)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5278)

[Implicit casts should not lower precision](https://rules.sonarsource.com/objective-c/RSPEC-5276)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5276)

[Appropriate size arguments should be passed to "strncat" and "strlcpy"](https://rules.sonarsource.com/objective-c/RSPEC-5273)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5273)

[Keywords shall not be used as macros identifiers](https://rules.sonarsource.com/objective-c/RSPEC-5266)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5266)

[Dereferenced null pointers should not be bound to references](https://rules.sonarsource.com/objective-c/RSPEC-5262)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5262)

["else" statements should be clearly matched with an "if"](https://rules.sonarsource.com/objective-c/RSPEC-5261)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5261)

[Methods should not have identical implementations](https://rules.sonarsource.com/objective-c/RSPEC-4144)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-4144)

["#include" paths should be portable](https://rules.sonarsource.com/objective-c/RSPEC-3806)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3806)

[Atomic types should be used instead of "volatile" types](https://rules.sonarsource.com/objective-c/RSPEC-3687)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3687)

["switch" statements should cover all cases](https://rules.sonarsource.com/objective-c/RSPEC-3562)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3562)

[C declarations should not be made inside Objective-C structures](https://rules.sonarsource.com/objective-c/RSPEC-3486)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3486)

[Printf-style format strings should be used correctly](https://rules.sonarsource.com/objective-c/RSPEC-3457)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3457)

[Conditional operators should not be nested](https://rules.sonarsource.com/objective-c/RSPEC-3358)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3358)

[Multiline blocks should be enclosed in curly braces](https://rules.sonarsource.com/objective-c/RSPEC-2681)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2681)

[Increment should not be used to set boolean variables to 'true'](https://rules.sonarsource.com/objective-c/RSPEC-2668)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2668)

[Parameters should be passed in the correct order](https://rules.sonarsource.com/objective-c/RSPEC-2234)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2234)

[Obsolete POSIX functions should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1911)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1911)

[Two branches in a conditional structure should not have exactly the same implementation](https://rules.sonarsource.com/objective-c/RSPEC-1871)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1871)

[Unused assignments should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1854)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1854)

[Structures should not have too many fields](https://rules.sonarsource.com/objective-c/RSPEC-1820)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1820)

["switch" statements should not have too many "case" clauses](https://rules.sonarsource.com/objective-c/RSPEC-1479)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1479)

[Classes should not have too many methods](https://rules.sonarsource.com/objective-c/RSPEC-1448)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1448)

[Sections of code should not be commented out](https://rules.sonarsource.com/objective-c/RSPEC-125)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-125)

[Deprecated K&R syntax should not be used for function definition](https://rules.sonarsource.com/objective-c/RSPEC-1198)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1198)

[Unused function parameters should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1172)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1172)

[Unused functions and methods should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1144)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1144)

[Try-catch blocks should not be nested](https://rules.sonarsource.com/objective-c/RSPEC-1141)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1141)

[Track uses of "FIXME" tags](https://rules.sonarsource.com/objective-c/RSPEC-1134)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1134)

[Deprecated attributes should include explanations](https://rules.sonarsource.com/objective-c/RSPEC-1123)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1123)

[Assignments should not be made from within sub-expressions](https://rules.sonarsource.com/objective-c/RSPEC-1121)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1121)

[Variables should not be shadowed](https://rules.sonarsource.com/objective-c/RSPEC-1117)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1117)

[Redundant pairs of parentheses should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1110)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1110)

[Inheritance tree of classes should not be too deep](https://rules.sonarsource.com/objective-c/RSPEC-110)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-110)

[Nested blocks of code should not be left empty](https://rules.sonarsource.com/objective-c/RSPEC-108)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-108)

[Functions should not have too many parameters](https://rules.sonarsource.com/objective-c/RSPEC-107)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-107)

[Collapsible "if" statements should be merged](https://rules.sonarsource.com/objective-c/RSPEC-1066)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1066)

[Unused labels should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1065)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1065)

[The "sizeof" and "alignof" operator should not be used with operands of a "void" type](https://rules.sonarsource.com/objective-c/RSPEC-2665)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2665)

["nonnull" pointers should not be set to null](https://rules.sonarsource.com/objective-c/RSPEC-2637)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2637)

["for" loop counters should not have essentially floating type](https://rules.sonarsource.com/objective-c/RSPEC-2193)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2193)

[Line continuation characters '\' should not be followed by trailing whitespace](https://rules.sonarsource.com/objective-c/RSPEC-1916)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1916)

[Using hardcoded IP addresses is security-sensitive](https://rules.sonarsource.com/objective-c/RSPEC-1313)

[Security Hotspot](https://rules.sonarsource.com/objective-c/RSPEC-1313)

[Pointer and reference parameters should be "const" if the corresponding object is not modified](https://rules.sonarsource.com/objective-c/RSPEC-995)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-995)

[The three expressions of a "for" statement should only be concerned with loop control](https://rules.sonarsource.com/objective-c/RSPEC-886)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-886)

[Literal suffix "L" for long integers shall be upper case](https://rules.sonarsource.com/objective-c/RSPEC-818)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-818)

[Multicharacter literals should not be used](https://rules.sonarsource.com/objective-c/RSPEC-5978)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5978)

[Loop variables should be declared in the minimal possible scope](https://rules.sonarsource.com/objective-c/RSPEC-5955)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5955)

[Macros should not be used as replacement to "typdef" and "using"](https://rules.sonarsource.com/objective-c/RSPEC-5825)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5825)

["^" should not be confused with exponentiation](https://rules.sonarsource.com/objective-c/RSPEC-5381)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5381)

[Format strings should comply with ISO standards](https://rules.sonarsource.com/objective-c/RSPEC-5293)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5293)

[Functions which do not return should be declared as "noreturn"](https://rules.sonarsource.com/objective-c/RSPEC-5271)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5271)

[Macros should not be redefined](https://rules.sonarsource.com/objective-c/RSPEC-3744)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3744)

["#include\_next" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-3730)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3730)

[String literals should not be concatenated implicitly](https://rules.sonarsource.com/objective-c/RSPEC-3728)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3728)

[Types and variables should be declared in separate statements](https://rules.sonarsource.com/objective-c/RSPEC-3646)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3646)

[Empty "case" clauses that fall through to the "default" should be omitted](https://rules.sonarsource.com/objective-c/RSPEC-3458)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3458)

[Forward declarations should not be redundant](https://rules.sonarsource.com/objective-c/RSPEC-3231)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3231)

[Declarations should not be empty](https://rules.sonarsource.com/objective-c/RSPEC-2754)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2754)

[General "catch" clauses should not be used](https://rules.sonarsource.com/objective-c/RSPEC-2738)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2738)

["catch" clauses should do more than rethrow](https://rules.sonarsource.com/objective-c/RSPEC-2737)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2737)

[Exceptions should not be ignored](https://rules.sonarsource.com/objective-c/RSPEC-2486)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2486)

[Curly braces should not be used on interfaces without instance variables](https://rules.sonarsource.com/objective-c/RSPEC-1986)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1986)

[Redundant casts should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1905)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1905)

[Code annotated as deprecated should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1874)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1874)

["#pragma warning (default: ...)" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1762)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1762)

[Init-declarator-lists and member-declarator-lists should consist of single init-declarators and member-declarators respectively](https://rules.sonarsource.com/objective-c/RSPEC-1659)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1659)

[Unused local variables should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1481)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1481)

["switch" statements should have at least 3 "case" clauses](https://rules.sonarsource.com/objective-c/RSPEC-1301)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1301)

[A "while" loop should be used instead of a "for" loop](https://rules.sonarsource.com/objective-c/RSPEC-1264)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1264)

[Nested code blocks should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1199)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1199)

[Empty statements should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1116)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1116)

["/\*" and "//" should not be used within comments](https://rules.sonarsource.com/objective-c/RSPEC-1103)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1103)

[Track uses of "TODO" tags](https://rules.sonarsource.com/objective-c/RSPEC-1135)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1135)

[Deprecated code should be removed](https://rules.sonarsource.com/objective-c/RSPEC-1133)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1133)

[Reserved identifiers and functions in the C standard library should not be defined or declared](https://rules.sonarsource.com/objective-c/RSPEC-978)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-978)

[Bit fields should not be used](https://rules.sonarsource.com/objective-c/RSPEC-2806)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2806)

[Track lack of copyright and license headers](https://rules.sonarsource.com/objective-c/RSPEC-1451)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1451)

[Octal values should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1314)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1314)

["abort", "exit", "getenv" and "system" from <stdlib.h> should not be used](https://rules.sonarsource.com/objective-c/RSPEC-990)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-990)

["atof", "atoi" and "atol" from <stdlib.h> should not be used](https://rules.sonarsource.com/objective-c/RSPEC-989)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-989)

["<signal.h>" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-987)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-987)

[Dynamic heap memory allocation should not be used](https://rules.sonarsource.com/objective-c/RSPEC-984)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-984)

["<time.h>" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-991)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-991)

["<stdio.h>" should not be used in production code](https://rules.sonarsource.com/objective-c/RSPEC-988)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-988)

["offsetof" macro from <stddef.h> should not be used](https://rules.sonarsource.com/objective-c/RSPEC-986)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-986)

["errno" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-985)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-985)

["setjmp" and "longjmp" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-982)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-982)

[Function-like macros should not be used](https://rules.sonarsource.com/objective-c/RSPEC-960)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-960)

[Macros should not be #define'd or #undef'd within a block](https://rules.sonarsource.com/objective-c/RSPEC-958)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-958)

[Unions should not be used](https://rules.sonarsource.com/objective-c/RSPEC-953)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-953)

[Object declarations should contain no more than 2 levels of pointer indirection](https://rules.sonarsource.com/objective-c/RSPEC-943)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-943)

[Functions without parameters should be declared with parameter type "void"](https://rules.sonarsource.com/objective-c/RSPEC-929)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-929)

[Recursion should not be used](https://rules.sonarsource.com/objective-c/RSPEC-925)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-925)

[Constants of unsigned type should have a "U" suffix](https://rules.sonarsource.com/objective-c/RSPEC-854)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-854)

[Octal and hexadecimal escape sequences should be terminated](https://rules.sonarsource.com/objective-c/RSPEC-2335)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2335)

[Flexible array members should not be declared](https://rules.sonarsource.com/objective-c/RSPEC-2324)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2324)

[Preprocessor directives should not be indented](https://rules.sonarsource.com/objective-c/RSPEC-1915)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1915)

["switch" statements should not be nested](https://rules.sonarsource.com/objective-c/RSPEC-1821)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1821)

[Cyclomatic Complexity of functions should not be too high](https://rules.sonarsource.com/objective-c/RSPEC-1541)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1541)

[Cyclomatic Complexity of classes should not be too high](https://rules.sonarsource.com/objective-c/RSPEC-1311)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1311)

["switch" statements should have "default" clauses](https://rules.sonarsource.com/objective-c/RSPEC-131)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-131)

["if ... else if" constructs should end with "else" clauses](https://rules.sonarsource.com/objective-c/RSPEC-126)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-126)

["typedef" should be used for function pointers](https://rules.sonarsource.com/objective-c/RSPEC-1259)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1259)

[Control structures should use curly braces](https://rules.sonarsource.com/objective-c/RSPEC-121)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-121)

[Expressions should not be too complex](https://rules.sonarsource.com/objective-c/RSPEC-1067)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1067)

[Macros used in preprocessor directives should be defined before use](https://rules.sonarsource.com/objective-c/RSPEC-966)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-966)

[The number of arguments passed to a function should match the number of parameters](https://rules.sonarsource.com/objective-c/RSPEC-930)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-930)

[Evaluation of the operand to the sizeof operator shall not contain side effects](https://rules.sonarsource.com/objective-c/RSPEC-922)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-922)

[Bitwise operators should not be applied to signed operands](https://rules.sonarsource.com/objective-c/RSPEC-874)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-874)

[Boolean operations should not have numeric operands, and vice versa](https://rules.sonarsource.com/objective-c/RSPEC-867)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-867)

[Pointer conversions should be restricted to a safe subset](https://rules.sonarsource.com/objective-c/RSPEC-856)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-856)

[Function pointers should not be converted to any other type](https://rules.sonarsource.com/objective-c/RSPEC-855)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-855)

[Results of ~ and << operations on operands of underlying types unsigned char and unsigned short should immediately be cast to the operand's underlying type](https://rules.sonarsource.com/objective-c/RSPEC-853)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-853)

[User-defined types should not be passed as variadic arguments](https://rules.sonarsource.com/objective-c/RSPEC-5270)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-5270)

[The "<stdlib.h>" functions "bsearch" and "qsort" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-2393)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-2393)

[Floating point numbers should not be tested for equality](https://rules.sonarsource.com/objective-c/RSPEC-1244)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1244)

[There shall be at most one occurrence of the # or ## operators in a single macro definition](https://rules.sonarsource.com/objective-c/RSPEC-967)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-967)

[Parameters in a function prototype should be named](https://rules.sonarsource.com/objective-c/RSPEC-926)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-926)

["goto" statement should not be used](https://rules.sonarsource.com/objective-c/RSPEC-907)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-907)

[Increment (++) and decrement (--) operators should not be used in a method call or mixed with other operators in an expression](https://rules.sonarsource.com/objective-c/RSPEC-881)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-881)

["enum" values should not be used as operands to built-in operators other than [ ], =, ==, !=, unary &, and the relational operators <, <=, >, >=](https://rules.sonarsource.com/objective-c/RSPEC-873)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-873)

[Operands of "&&" and "||" should be primary (C) or postfix (C++) expressions](https://rules.sonarsource.com/objective-c/RSPEC-868)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-868)

[Limited dependence should be placed on operator precedence](https://rules.sonarsource.com/objective-c/RSPEC-864)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-864)

[The value of a complex expression should only be cast to a type that is narrower and of the same signedness as the underlying type of the expression](https://rules.sonarsource.com/objective-c/RSPEC-851)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-851)

[Braces should be used to indicate and match the structure in the non-zero initialization of arrays and structures](https://rules.sonarsource.com/objective-c/RSPEC-835)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-835)

[Array declarations should include an explicit size specification](https://rules.sonarsource.com/objective-c/RSPEC-834)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-834)

["typedef" names should be unique identifiers](https://rules.sonarsource.com/objective-c/RSPEC-802)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-802)

[Identifiers should not be longer than 31 characters](https://rules.sonarsource.com/objective-c/RSPEC-799)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-799)

[All uses of the #pragma directive should be documented](https://rules.sonarsource.com/objective-c/RSPEC-793)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-793)

[Assembly language should be encapsulated and isolated](https://rules.sonarsource.com/objective-c/RSPEC-784)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-784)

[Functions that are not used in a project should be removed](https://rules.sonarsource.com/objective-c/RSPEC-5536)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5536)

[Track parsing failures](https://rules.sonarsource.com/objective-c/RSPEC-2260)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2260)

[Files should not be too complex](https://rules.sonarsource.com/objective-c/RSPEC-1908)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1908)

[The ternary operator should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1774)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1774)

[Exceptions should not be used](https://rules.sonarsource.com/objective-c/RSPEC-1706)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1706)

[Functions/methods should not have too many lines](https://rules.sonarsource.com/objective-c/RSPEC-138)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-138)

[Track uses of "NOSONAR" comments](https://rules.sonarsource.com/objective-c/RSPEC-1291)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1291)

["for" loop stop conditions should be invariant](https://rules.sonarsource.com/objective-c/RSPEC-127)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-127)

[Statements should be on separate lines](https://rules.sonarsource.com/objective-c/RSPEC-122)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-122)

["switch case" clauses should not have too many lines of code](https://rules.sonarsource.com/objective-c/RSPEC-1151)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1151)

[Functions should not contain too many return statements](https://rules.sonarsource.com/objective-c/RSPEC-1142)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1142)

[Magic numbers should not be used](https://rules.sonarsource.com/objective-c/RSPEC-109)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-109)

[Files should not have too many lines of code](https://rules.sonarsource.com/objective-c/RSPEC-104)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-104)

[Lines should not be too long](https://rules.sonarsource.com/objective-c/RSPEC-103)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-103)

[Function parameters' initial values should not be ignored](https://rules.sonarsource.com/objective-c/RSPEC-1226)

[Bug](https://rules.sonarsource.com/objective-c/RSPEC-1226)

[Preprocessor operators "#" and "##" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-968)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-968)

[Structure and union types should be complete at the end of a translation unit](https://rules.sonarsource.com/objective-c/RSPEC-950)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-950)

[Switch statement conditions should not have essentially boolean type](https://rules.sonarsource.com/objective-c/RSPEC-920)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-920)

["continue" should not be used](https://rules.sonarsource.com/objective-c/RSPEC-909)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-909)

[Tests of non-Boolean values against zero should be explicit](https://rules.sonarsource.com/objective-c/RSPEC-883)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-883)

[Signed and unsigned types should not be mixed in expressions](https://rules.sonarsource.com/objective-c/RSPEC-845)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-845)

[typedefs that indicate size and signedness should be used in place of the basic types](https://rules.sonarsource.com/objective-c/RSPEC-813)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-813)

[Appropriate char types should be used for character and integer values](https://rules.sonarsource.com/objective-c/RSPEC-810)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-810)

[Source code should only use /\* ... \*/ style comments](https://rules.sonarsource.com/objective-c/RSPEC-787)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-787)

[GNU extensions should not be used](https://rules.sonarsource.com/objective-c/RSPEC-3715)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3715)

[Methods should not return constants](https://rules.sonarsource.com/objective-c/RSPEC-3400)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3400)

[Label names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-3222)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-3222)

[Enumeration values should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-2343)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2343)

[Enumeration names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-2342)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-2342)

[Comment styles "//" and "/\* ... \*/" should not be mixed within a file](https://rules.sonarsource.com/objective-c/RSPEC-1917)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1917)

["union" names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-1878)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1878)

[Constants should come first in equality tests](https://rules.sonarsource.com/objective-c/RSPEC-1772)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1772)

[Type specifiers should be listed in a standard order](https://rules.sonarsource.com/objective-c/RSPEC-1749)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1749)

[Track "TODO" and "FIXME" comments that do not contain a reference to a person](https://rules.sonarsource.com/objective-c/RSPEC-1707)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1707)

[The prefix increment/decrement form should be used](https://rules.sonarsource.com/objective-c/RSPEC-1705)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1705)

["struct" names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-1642)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1642)

[File names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-1578)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1578)

[Macro names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-1543)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1543)

[Comments should not be located at the end of lines of code](https://rules.sonarsource.com/objective-c/RSPEC-139)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-139)

[break statements should not be used except for switch cases](https://rules.sonarsource.com/objective-c/RSPEC-1227)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1227)

[Local variable and function parameter names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-117)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-117)

[Field names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-116)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-116)

[Lines should not end with trailing whitespaces](https://rules.sonarsource.com/objective-c/RSPEC-1131)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1131)

[Files should contain an empty newline at the end](https://rules.sonarsource.com/objective-c/RSPEC-113)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-113)

[Tabulation characters should not be used](https://rules.sonarsource.com/objective-c/RSPEC-105)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-105)

[Class names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-101)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-101)

[A function should have a single point of exit at the end of the function](https://rules.sonarsource.com/objective-c/RSPEC-1005)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1005)

[Function names should comply with a naming convention](https://rules.sonarsource.com/objective-c/RSPEC-100)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-100)

[Track comments matching a regular expression](https://rules.sonarsource.com/objective-c/RSPEC-5639)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-5639)

[Track instances of the "#error" preprocessor directive being reached](https://rules.sonarsource.com/objective-c/RSPEC-1914)

[Code Smell](https://rules.sonarsource.com/objective-c/RSPEC-1914)