

Clang-Tidy in CLion: default configuration

The official list of checks maintained by Clang-Tidy.

CLion defaults:

On	Check is On by default in CLion. Can be turned Off if needed.
Off	Check is Off by default in CLion. Can be turned On if needed.

Group/Prefix	Check	Status
abseil-	abseil-duration-addition	On
	abseil-duration-comparison	On
	abseil-duration-conversion-cast	On
	abseil-duration-division	On
	abseil-duration-factory-float	On
	abseil-duration-factory-scale	On
	abseil-duration-subtraction	On
	abseil-duration-unnecessary-conversion	On
	abseil-faster-strsplit-delimiter	On
	abseil-no-internal-dependencies	On
	abseil-no-namespace	On
	abseil-redundant-strcat-calls	On
	abseil-str-cat-append	On
	abseil-string-find-startswith	On
	abseil-time-comparison	On
abseil-time-subtraction	On	
abseil-upgrade-duration-conversions	On	
android-	android-cloexec-accept	Off
	android-cloexec-accept4	Off
	android-cloexec-creat	Off
	android-cloexec-dup	Off
	android-cloexec-epoll-create	Off
	android-cloexec-epoll-create1	Off
	android-cloexec-fopen	Off
	android-cloexec-inotify-init	Off
	android-cloexec-inotify-init1	Off
	android-cloexec-memfd-create	Off
	android-cloexec-open	Off

	android-cloexec-socket	Off
	android-comparison-in-temp-failure-retry	Off
bugprone-	bugprone-argument-comment	On
	bugprone-assert-side-effect	On
	bugprone-bool-pointer-implicit-conversion	Off
	bugprone-copy-constructor-init	On
	bugprone-dangling-handle	On
	bugprone-exception-escape	Off
	bugprone-fold-init-type	On
	bugprone-forward-declaration-namespace	On
	bugprone-forwarding-reference-overload	On
	bugprone-inaccurate-erase	On
	bugprone-incorrect-roundings	On
	bugprone-integer-division	On
	bugprone-lambda-function-name	On
	bugprone-macro-parentheses	On
	bugprone-macro-repeated-side-effects	On
	bugprone-misplaced-operator-in-strlen-in-alloc	On
	bugprone-misplaced-widening-cast	On
	bugprone-move-forwarding-reference	On
	bugprone-multiple-statement-macro	On
	bugprone-narrowing-conversions	On
	bugprone-parent-virtual-call	On
	bugprone-sizeof-container	On
	bugprone-sizeof-expression	On
	bugprone-string-constructor	On
	bugprone-string-integer-assignment	On
	bugprone-string-literal-with-embedded-nul	On
	bugprone-suspicious-enum-usage	On
	bugprone-suspicious-memset-usage	On
	bugprone-suspicious-missing-comma	On
	bugprone-suspicious-semicolon	On
bugprone-suspicious-string-compare	On	
bugprone-swapped-arguments	On	
bugprone-terminating-continue	On	
bugprone-throw-keyword-missing	On	
bugprone-too-small-loop-variable	On	

	bugprone-undefined-memory-manipulation	On
	bugprone-undelegated-constructor	On
	bugprone-unused-raii	On
	bugprone-unused-return-value	On
	bugprone-use-after-move	On
	bugprone-virtual-near-miss	On
boost-	boost-use-to-string	On
cert-	cert-dcl03-c	On
	cert-dcl16-c	Off
	cert-dcl21-cpp	On
	cert-dcl50-cpp	Off
	cert-dcl54-cpp	On
	cert-dcl58-cpp	On
	cert-dcl59-cpp	Off
	cert-env33-c	Off
	cert-err09-cpp	On
	cert-err34-c	On
	cert-err52-cpp	On
	cert-err58-cpp	On
	cert-err60-cpp	On
	cert-err61-cpp	On
	cert-fio38-c	On
	cert-flp30-c	On
	cert-msc30-c	On
	cert-msc32-c	On
	cert-msc50-cpp	On
	cert-msc51-cpp	On
cert-oop11-cpp	On	
clang-analyzer-	clang-analyzer-apiModeling.StdCLibraryFunctions	Off
	clang-analyzer-apiModeling.TrustNonnull	Off
	clang-analyzer-apiModeling.google.GTest	Off
	clang-analyzer-core.CallAndMessage	Off
	clang-analyzer-core.DivideZero	Off
	clang-analyzer-core.DynamicTypePropagation	Off
	clang-analyzer-core.NonNullParamChecker	Off
	clang-analyzer-core.NonnilStringConstants	Off
	clang-analyzer-core.NullDereference	Off

clang-analyzer-core.StackAddrEscapeBase	Off
clang-analyzer-core.StackAddressEscape	Off
clang-analyzer-core.UndefinedBinaryOperatorResult	Off
clang-analyzer-core.VLASize	Off
clang-analyzer-core.builtin.BuiltinFunctions	Off
clang-analyzer-core.builtin.NoReturnFunctions	Off
clang-analyzer-core.uninitialized.ArraySubscript	Off
clang-analyzer-core.uninitialized.Assign	Off
clang-analyzer-core.uninitialized.Branch	Off
clang-analyzer-core.uninitialized.CapturedBlockVariable	Off
clang-analyzer-core.uninitialized.UndefReturn	Off
clang-analyzer-cplusplus.InnerPointer	Off
clang-analyzer-cplusplus.Move	Off
clang-analyzer-cplusplus.NewDelete	Off
clang-analyzer-cplusplus.NewDeleteLeaks	Off
clang-analyzer-cplusplus.SelfAssignment	Off
clang-analyzer-deadcode.DeadStores	Off
clang-analyzer-nullability.NullPassedToNonnull	Off
clang-analyzer-nullability.NullReturnedFromNonnull	Off
clang-analyzer-nullability.NullabilityBase	Off
clang-analyzer-nullability.NullableDereferenced	Off
clang-analyzer-nullability.NullablePassedToNonnull	Off
clang-analyzer-nullability.NullableReturnedFromNonnull	Off
clang-analyzer-optin.cplusplus.VirtualCall	Off
clang-analyzer-optin.mpi.MPI-Checker	Off
clang-analyzer-optin.osx.OSObjectCStyleCast	Off
clang-analyzer-optin.osx.cocoa.localizability.EmptyLocalizationContextChecker	Off
clang-analyzer-optin.osx.cocoa.localizability.NonLocalizedStringChecker	Off
clang-analyzer-optin.performance.GCDAntipattern	Off
clang-analyzer-optin.performance.Padding	Off
clang-analyzer-optin.portability.UnixAPI	Off
clang-analyzer-osx.API	Off
clang-analyzer-osx.MIG	Off
clang-analyzer-osx.NSOrCFErrorDerefChecker	Off
clang-analyzer-osx.NumberObjectConversion	Off
clang-analyzer-osx.OSObjectRetainCount	Off
clang-analyzer-osx.ObjCProperty	Off

clang-analyzer-osx.SecKeychainAPI	Off
clang-analyzer-osx.cocoa.AtSync	Off
clang-analyzer-osx.cocoa.AutoreleaseWrite	Off
clang-analyzer-osx.cocoa.ClassRelease	Off
clang-analyzer-osx.cocoa.Dealloc	Off
clang-analyzer-osx.cocoa.IncompatibleMethodTypes	Off
clang-analyzer-osx.cocoa.Loops	Off
clang-analyzer-osx.cocoa.MissingSuperCall	Off
clang-analyzer-osx.cocoa.NSAutoreleasePool	Off
clang-analyzer-osx.cocoa.NSError	Off
clang-analyzer-osx.cocoa.NilArg	Off
clang-analyzer-osx.cocoa.NonNilReturnValue	Off
clang-analyzer-osx.cocoa.ObjCGenerics	Off
clang-analyzer-osx.cocoa.RetainCount	Off
clang-analyzer-osx.cocoa.RetainCountBase	Off
clang-analyzer-osx.cocoa.RunLoopAutoreleaseLeak	Off
clang-analyzer-osx.cocoa.SelfInit	Off
clang-analyzer-osx.cocoa.SuperDealloc	Off
clang-analyzer-osx.cocoa.UnusedIvars	Off
clang-analyzer-osx.cocoa.VariadicMethodTypes	Off
clang-analyzer-osx.coreFoundation.CFError	Off
clang-analyzer-osx.coreFoundation.CFNumber	Off
clang-analyzer-osx.coreFoundation.CFRetainRelease	Off
clang-analyzer-osx.coreFoundation.containers.OutOfBounds	Off
clang-analyzer-osx.coreFoundation.containers.PointerSizedValues	Off
clang-analyzer-security.FloatLoopCounter	Off
clang-analyzer-security.insecureAPI.DeprecatedOrUnsafeBufferHandling	Off
clang-analyzer-security.insecureAPI.SecuritySyntaxChecker	Off
clang-analyzer-security.insecureAPI.UncheckedReturn	Off
clang-analyzer-security.insecureAPI.bcmp	Off
clang-analyzer-security.insecureAPI.bcopy	Off
clang-analyzer-security.insecureAPI.bzero	Off
clang-analyzer-security.insecureAPI.getpw	Off
clang-analyzer-security.insecureAPI.gets	Off
clang-analyzer-security.insecureAPI.mkstemp	Off
clang-analyzer-security.insecureAPI.mktemp	Off
clang-analyzer-security.insecureAPI.rand	Off

	clang-analyzer-security.insecureAPI.strcpy	Off
	clang-analyzer-security.insecureAPI.vfork	Off
	clang-analyzer-unix.API	Off
	clang-analyzer-unix.DynamicMemoryModeling	Off
	clang-analyzer-unix.Malloc	Off
	clang-analyzer-unix.MallocSizeof	Off
	clang-analyzer-unix.MismatchedDeallocator	Off
	clang-analyzer-unix.Vfork	Off
	clang-analyzer-unix.cstring.BadSizeArg	Off
	clang-analyzer-unix.cstring.CStringModeling	Off
	clang-analyzer-unix.cstring.NullArg	Off
	clang-analyzer-valist.CopyToSelf	Off
	clang-analyzer-valist.Uninitialized	Off
	clang-analyzer-valist.Unterminated	Off
	clang-analyzer-valist.ValistBase	Off
cppcoreguidelines-	cppcoreguidelines-avoid-c-arrays	Off
	cppcoreguidelines-avoid-goto	Off
	cppcoreguidelines-avoid-magic-numbers	Off
	cppcoreguidelines-c-copy-assignment-signature	On
	cppcoreguidelines-explicit-virtual-functions	On
	cppcoreguidelines-interfaces-global-init	On
	cppcoreguidelines-macro-usage	Off
	cppcoreguidelines-narrowing-conversions	On
	cppcoreguidelines-no-malloc	Off
	cppcoreguidelines-non-private-member-variables-in-classes	Off
	cppcoreguidelines-owning-memory	Off
	cppcoreguidelines-pro-bounds-array-to-pointer-decay	Off
	cppcoreguidelines-pro-bounds-constant-array-index	Off
	cppcoreguidelines-pro-bounds-pointer-arithmetic	Off
	cppcoreguidelines-pro-type-const-cast	Off
	cppcoreguidelines-pro-type-cstyle-cast	Off
	cppcoreguidelines-pro-type-member-init	On
	cppcoreguidelines-pro-type-reinterpret-cast	Off
	cppcoreguidelines-pro-type-static-cast-downcast	On
	cppcoreguidelines-pro-type-union-access	Off
	cppcoreguidelines-pro-type-vararg	Off
	cppcoreguidelines-slicing	On

	cppcoreguidelines-special-member-functions	Off
fuchsia-	fuchsia-default-arguments	Off
	fuchsia-header-anon-namespaces	Off
	fuchsia-multiple-inheritance	Off
	fuchsia-overloaded-operator	Off
	fuchsia-restrict-system-includes	Off
	fuchsia-statically-constructed-objects	Off
	fuchsia-trailing-return	Off
	fuchsia-virtual-inheritance	Off
google-	google-build-explicit-make-pair	Off
	google-build-namespaces	Off
	google-build-using-namespace	Off
	google-default-arguments	On
	google-explicit-constructor	On
	google-global-names-in-headers	Off
	google-objc-avoid-throwing-exception	Off
	google-objc-function-naming	Off
	google-objc-global-variable-declaration	Off
	google-readability-avoid-underscore-in-googletest-name	Off
	google-readability-braces-around-statements	Off
	google-readability-casting	Off
	google-readability-function-size	Off
	google-readability-namespace-comments	Off
	google-readability-todo	Off
	google-runtime-int	Off
	google-runtime-operator	On
	google-runtime-references	Off
hicpp-	hicpp-avoid-c-arrays	Off
	hicpp-avoid-goto	Off
	hicpp-braces-around-statements	Off
	hicpp-deprecated-headers	On
	hicpp-exception-baseclass	On
	hicpp-explicit-conversions	On
	hicpp-function-size	Off
	hicpp-invalid-access-moved	On
	hicpp-member-init	On
	hicpp-move-const-arg	On

	hicpp-multiway-paths-covered	On
	hicpp-named-parameter	Off
	hicpp-new-delete-operators	On
	hicpp-no-array-decay	Off
	hicpp-no-assembler	Off
	hicpp-no-malloc	Off
	hicpp-noexcept-move	On
	hicpp-signed-bitwise	On
	hicpp-special-member-functions	Off
	hicpp-static-assert	On
	hicpp-undelegated-constructor	On
	hicpp-uppercase-literal-suffix	Off
	hicpp-use-auto	On
	hicpp-use-emplace	On
	hicpp-use-equals-default	On
	hicpp-use-equals-delete	On
	hicpp-use-noexcept	On
	hicpp-use-nullptr	On
	hicpp-use-override	On
	hicpp-vararg	Off
llvm-	llvm-header-guard	Off
	llvm-include-order	Off
	llvm-namespace-comment	Off
	llvm-twine-local	Off
misc-	misc-definitions-in-headers	Off
	misc-misplaced-const	On
	misc-new-delete-overloads	On
	misc-non-copyable-objects	On
	misc-non-private-member-variables-in-classes	Off
	misc-redundant-expression	On
	misc-static-assert	On
	misc-throw-by-value-catch-by-reference	On
	misc-unconventional-assign-operator	On
	misc-uniqueptr-reset-release	On
	misc-unused-alias-decls	Off
	misc-unused-parameters	Off
	misc-unused-using-decls	Off

modernize-	modernize-avoid-bind	On
	modernize-avoid-c-arrays	Off
	modernize-concat-nested-namespaces	On
	modernize-deprecated-headers	On
	modernize-deprecated-ios-base-aliases	On
	modernize-loop-convert	On
	modernize-make-shared	On
	modernize-make-unique	On
	modernize-pass-by-value	On
	modernize-raw-string-literal	On
	modernize-redundant-void-arg	On
	modernize-replace-auto-ptr	On
	modernize-replace-random-shuffle	On
	modernize-return-braced-init-list	On
	modernize-shrink-to-fit	On
	modernize-unary-static-assert	On
	modernize-use-auto	On
	modernize-use-bool-literals	On
	modernize-use-default-member-init	Off
	modernize-use-emplace	On
	modernize-use-equals-default	On
	modernize-use-equals-delete	On
	modernize-use-nodiscard	On
	modernize-use-noexcept	On
	modernize-use-nullptr	On
	modernize-use-override	On
modernize-use-transparent-functors	On	
modernize-use-uncaught-exceptions	On	
modernize-use-using	Off	
mpi-	mpi-buffer-deref	On
	mpi-type-mismatch	On
objc-	objc-avoid-nserror-init	Off
	objc-avoid-spinlock	Off
	objc-forbidden-subclassing	Off
	objc-property-declaration	Off
openmp-	openmp-exception-escape	Off
	openmp-use-default-none	On

performance-	performance-faster-string-find	On
	performance-for-range-copy	On
	performance-implicit-conversion-in-loop	On
	performance-inefficient-algorithm	On
	performance-inefficient-string-concatenation	On
	performance-inefficient-vector-operation	On
	performance-move-const-arg	On
	performance-move-constructor-init	On
	performance-noexcept-move-constructor	On
	performance-type-promotion-in-math-fn	On
	performance-unnecessary-copy-initialization	On
	performance-unnecessary-value-param	On
portability-	portability-simd-intrinsics	On
readability-	readability-avoid-const-params-in-decls	On
	readability-braces-around-statements	Off
	readability-const-return-type	On
	readability-container-size-empty	On
	readability-delete-null-pointer	On
	readability-deleted-default	On
	readability-else-after-return	Off
	readability-function-size	Off
	readability-identifier-naming	Off
	readability-implicit-bool-conversion	Off
	readability-inconsistent-declaration-parameter-name	On
	readability-isolate-declaration	Off
	readability-magic-numbers	Off
	readability-misleading-indentation	On
	readability-misplaced-array-index	On
	readability-named-parameter	Off
	readability-non-const-parameter	On
	readability-redundant-control-flow	On
	readability-redundant-declaration	On
	readability-redundant-function-ptr-dereference	On
readability-redundant-member-init	Off	
readability-redundant-preprocessor	Off	
readability-redundant-smartptr-get	On	
readability-redundant-string-cstr	On	

	readability-redundant-string-init	On
	readability-simplify-boolean-expr	Off
	readability-simplify-subscript-expr	On
	readability-static-accessed-through-instance	On
	readability-static-definition-in-anonymous-namespace	On
	readability-string-compare	On
	readability-uniqueptr-delete-release	On
	readability-uppercase-literal-suffix	Off
zircon-	zircon-temporary-objects	Off