









```

4  google-*,\
5  misc-*,\
6  modernize-*,\
7  performance-*,\
8  readability-*,\
9  portability-*,\
10 "
11 HeaderFilterRegex: 'Source/cm[^/]*\.(h|hxx|cxx)$'
12 CheckOptions:
13   - key: modernize-use-default-member-init.UseAssignment
14     value: '1'
15   - key: modernize-use-equals-default.IgnoreMacros
16     value: '0'
17   - key: modernize-use-auto.MinTypeNameLength
18     value: '80'

```

- .clang-format `BasedOnStyle`

```

1 # .clang-format
2 ---
3 ## Language: Cpp
4 Language: Cpp
5 ## BasedOnStyle: LLVM
6 ## BasedOnStyle: LLVM
7 ## AccessModifierOffset: -4
8 AccessModifierOffset: -4
9 ## AlignAfterOpenBracket: Align
10 AlignAfterOpenBracket: Align
11 ## AlignArrayOfStructures: None
12 AlignArrayOfStructures: None
13 ## AlignConsecutiveMacros: None
14 AlignConsecutiveMacros: None
15 ## AlignConsecutiveAssignments: None
16 AlignConsecutiveAssignments: None
17 ## AlignConsecutiveBitFields: None
18 AlignConsecutiveBitFields: None
19 ## AlignConsecutiveDeclarations: None
20 AlignConsecutiveDeclarations: None
21 ## AlignEscapedNewlines: Left
22 AlignEscapedNewlines: Left
23 ## AlignOperands: Align
24 AlignOperands: Align
25 ## AlignTrailingComments: true
26 AlignTrailingComments: true
27 ## AllowAllParametersOfDeclarationOnNextLine: true
28 AllowAllParametersOfDeclarationOnNextLine: true
29 ## AllowShortEnumsOnASingleLine: true
30 AllowShortEnumsOnASingleLine: true
31 ## AllowShortBlocksOnASingleLine: Never
32 AllowShortBlocksOnASingleLine: Never
33 ## AllowShortCaseLabelsOnASingleLine: false
34 AllowShortCaseLabelsOnASingleLine: false
35 ## AllowShortFunctionsOnASingleLine: All
36 AllowShortFunctionsOnASingleLine: All
37 ##

```

```

38 AllowShortLambdasOnASingleLine: All
39 ## []if[]
40 AllowShortIfStatementsOnASingleLine: Never
41 ## []
42 AllowShortLoopsOnASingleLine: false
43 ## []
44 AlwaysBreakAfterReturnType: None
45 ## []string[]
46 AlwaysBreakBeforeMultilineStrings: false
47 ## []template[]
48 AlwaysBreakTemplateDeclarations: MultiLine
49 AttributeMacros:
50   - __capability
51 ## false[]
52 BinPackArguments: true
53 ## false[]
54 BinPackParameters: true
55 ## []BreakBeforeBraces[]Custom[]
56 BraceWrapping:
57   AfterCaseLabel: false
58   AfterClass: false
59   AfterControlStatement: Never
60   AfterEnum: false
61   AfterFunction: false
62   AfterNamespace: false
63   AfterObjCDeclaration: false
64   AfterStruct: false
65   AfterUnion: false
66   AfterExternBlock: false
67   BeforeCatch: false
68   BeforeElse: false
69   BeforeLambdaBody: false
70   BeforeWhile: false
71   IndentBraces: false
72   SplitEmptyFunction: true
73   SplitEmptyRecord: true
74   SplitEmptyNamespace: true
75 ## []
76 BreakBeforeBinaryOperators: None
77 ## []concept[]
78 BreakBeforeConceptDeclarations: true
79 ## []: Attach([])
80 BreakBeforeBraces: Attach
81 ## []
82 BreakInheritanceList: AfterComma
83 ## []
84 BreakBeforeTernaryOperators: true
85 ## []
86 BreakConstructorInitializers: BeforeComma
87 ## []java[]
88 BreakAfterJavaFieldAnnotations: false
89 ## []@[]
90 ColumnLimit: 96
91 ## []
92 CommentPragmas: '^ IWYU pragma:'

```

```
93 ## CompactNamespaces: false
94 CompactNamespaces: false
95 ## ConstructorInitializerIndentWidth: 4
96 ConstructorInitializerIndentWidth: 4
97 ## ContinuationIndentWidth: 4
98 ContinuationIndentWidth: 4
99 ## Cpp11BracedListStyle: true
100 Cpp11BracedListStyle: true
101 ## DeriveLineEnding: true
102 DeriveLineEnding: true
103 ## DerivePointerAlignment: false
104 DerivePointerAlignment: false
105 ## DisableFormat: false
106 DisableFormat: false
107 ## EmptyLineAfterAccessModifier: Never
108 EmptyLineAfterAccessModifier: Never
109 ## EmptyLineBeforeAccessModifier: LogicalBlock
110 EmptyLineBeforeAccessModifier: LogicalBlock
111 ## ExperimentalAutoDetectBinPacking: false
112 ExperimentalAutoDetectBinPacking: false
113 ## FixNamespaceComments: true
114 FixNamespaceComments: true
115 ## ForEachMacros:
116 ForEachMacros:
117 - foreach
118 - Q_FOREACH
119 - BOOST_FOREACH
120 IfMacros:
121 - KJ_IF_MAYBE
122 ## IncludeBlocks: Merge
123 IncludeBlocks: Merge
124 ## IncludeCategories:
125 IncludeCategories:
126 - Regex: '^(llvm|llvm-c|clang|clang-c)'
127   Priority: 2
128   SortPriority: 0
129   CaseSensitive: false
130 - Regex: '^(<|"gtest|gmock|isl|json)'
131   Priority: 3
132   SortPriority: 0
133   CaseSensitive: false
134 - Regex: '.*'
135   Priority: 1
136   SortPriority: 0
137   CaseSensitive: false
138 IncludeIsMainRegex: '(Test)?$'
139 IncludeIsMainSourceRegex: ''
140 ## IndentAccessModifiers: false
141 IndentAccessModifiers: false
142 ## IndentCaseLabels: false
143 IndentCaseLabels: false
144 ## IndentCaseBlocks: false
145 IndentCaseBlocks: false
146 ## IndentGotoLabels: false
147 IndentGotoLabels: false
```



```
203 ## #include
204 SortIncludes: false
205 ## java
206 SortJavaStaticImport: Before
207 ## using
208 SortUsingDeclarations: true
209 ## C
210 SpaceAfterCStyleCast: false
211 ## !
212 SpaceAfterLogicalNot: false
213 ## Template
214 SpaceAfterTemplateKeyword: true
215 ##
216 SpaceBeforeAssignmentOperators: true
217 ## case
218 SpaceBeforeCaseColon: false
219 ## C++11
220 SpaceBeforeCpp11BracedList: false
221 ##
222 SpaceBeforeCtorInitializerColon: true
223 ##
224 SpaceBeforeInheritanceColon: true
225 ## : Never, ControlStatements, Always
226 SpaceBeforeParens: ControlStatements
227 ## PointerAlignment
228 SpaceAroundPointerQualifiers: Default
229 ## for
230 SpaceBeforeRangeBasedForLoopColon: true
231 ## {}
232 SpaceInEmptyBlock: false
233 ##
234 SpaceInEmptyParentheses: false
235 ## (//)
236 SpacesBeforeTrailingComments: 1
237 ## <>
238 SpacesInAngles: Never
239 ## if/for/switch/while
240 SpacesInConditionalStatement: false
241 ## (ObjC JavaScript)
242 SpacesInContainerLiterals: true
243 ## C
244 SpacesInCStyleCastParentheses: false
245 ## -1
246 SpacesInLineCommentPrefix:
247   Minimum: 1
248   Maximum: -1
249 ## ( )
250 SpacesInParentheses: false
251 ## [ ] lambda
252 SpacesInSquareBrackets: false
253 ## [
254 SpaceBeforeSquareBrackets: false
255 ## :
256 BitFieldColonSpacing: Both
257 ##
```

```

258 Standard: Auto
259 ## 
260 StatementAttributeLikeMacros:
261   - Q_EMIT
262 ## 
263 StatementMacros:
264   - Q_UNUSED
265   - QT_REQUIRE_VERSION
266 ## tab
267 TabWidth: 4
268 ## 
269 UseCRLF: false
270 ## tabForIndentation—
271 UseTab: Never
272 ## 
273 WhitespaceSensitiveMacros:
274   - STRINGIZE
275   - PP_STRINGIZE
276   - BOOST_PP_STRINGIZE
277   - NS_SWIFT_NAME
278   - CF_SWIFT_NAME

```

## Xmake

hello\_world.cpp Hello world

```

1 // hello_world.cpp
2 #include <iostream>
3
4 int main() {
5     std::cout << "Hello, world!" << std::endl;
6     return 0;
7 }

```

xmake.lua Xmake

```

1 -- xmake.lua
2 add_defines("ROOT")
3 add_rules("mode.debug", "mode.release")
4 set_toolchains("clang")
5 set_languages("cxx17", "c11")
6 set_optimize("fastest")
7 set_warnings("all")
8
9 -- 
10 target("Hello world!")
11     set_kind("binary")
12     add_files("hello_world.cpp")
13 target_end()

```

VSCoDe Xmake Xmake Xmake Clang hello world

C++ Xmake

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- [XXXX] Visual Studio Code X C/C++ XXXXXXXXX(VSCode + Clangd + XMake) - X
- XXXXX VSCode+clangd+lldb+cmake X C/C++XXXXXX - X
- X VSCode + XMake + LLVM XXXX C++Xllvm-mingw + clangd + modulesX
- MSYS2 X CMake XXXXXX | XXXXXX