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检查代码语法

当您编写代码时,Qt创建者会检查代码语法。当Qt Creator发现代码中的语法错误时,它会加下划线,显示一个图标,并在您将鼠标指针移到错误或图标上时显示错误详细信息。如果有可用的修补程序,则可以通过单击 ▼ 来应用它。

同样,当您处理 JavaScript 对象表示法(JSON)实体的实例时,Qt 创建者会在 JSON 数据结构中为错误加下划线。

在下面的屏幕截图中, Qt Creator 注释了一个错误, 因为行尾缺少一个分号:

在下面的屏幕截图中, Qt Creator发出警告, 因为未使用该变量:



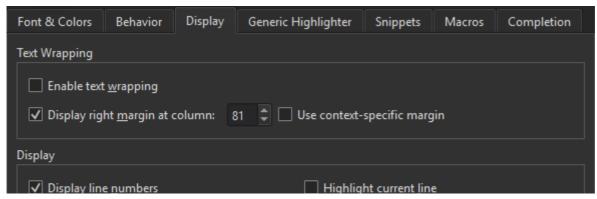
可以使用工具提示弹出窗口中的图标将错误或警告消息复制到剪贴板,或者忽略和隐藏它。选择"**批注设置**"链接以指定线条批注的位置。

要修改用于为错误和警告添加下划线的颜色,请选择"编辑>首选项">文本编辑器">"字体">"颜色>复制",然后为"错误"和"警告"选择新颜色。

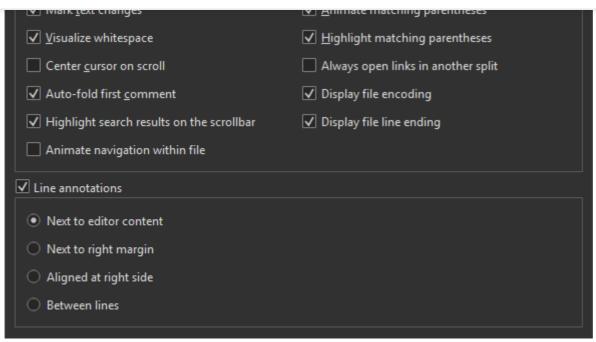
编写 QML 或脚本代码时,注释可能包含脚本中列出的错误代码和 QML 错误代码。

Specifying Line Annotation Positions

To specify the position where the annotations are displayed, select **Edit** > **Preferences** > **Text Editor** > **Display** > **Line annotations**, and then select whether to display the annotations directly next to the code, aligned to the right of the code, or in the right margin. Showing annotations between lines can be useful if there is usually not enough space to display annotations next to the text.







If you hide the annotations by deselecting the check box, you can move the mouse pointer over an icon to view them.

JavaScript and QML Error Codes

You can run static checks on the QML and JavaScript code in your project to find common problems. To run the checks, select **Tools** > **QML/JS** > **Run Checks** or press **Ctrl+Shift+C**. The results are shown in the **QML** and **QML Analysis** filters in Issues.

Many of the error messages are similar to the ones in Douglas Crockford's JSLint tool. For more information about JSLint errors, see JSLint Error Explanations.

ld	Severity	Message	Description
M1	Error	Invalid value for enum	
M2	Error	Enum value must be a string or a number	
МЗ	Error	Number value expected	
M4	Error	Boolean value expected	
M5	Error	String value expected	
M6	Error	Invalid URL	
M7	Warning	File or directory does not exist	
M8	Error	Invalid color	
M9	Error	Anchor line expected	
M10	Error	Duplicate property binding	See also: Duplicate key '{a}'.
M11	Error	Id expected	See also: Expected an identifier and instead saw '{a}' (a reserved word).
M14 Id	Error Severity	Invalid id Message	See also: Expected an identifier and instead saw '{a}' (a reserved word).

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IVI I b	Error	invalia property name naille	
M17	Error	Name does not have members	
M18	Error	Field is not a member of object	
M19	Warning	Assignment in condition	It could be a typing error. If it is intentional, wrap the assignment in parentheses.
M20	Warning	Unterminated non-empty case block	Case blocks should either be empty or end in a flow control statement such as , or . Alternatively you can indicate intentional fall through by ending with a comment.breakreturncontinue// fall through
M23	Warning	Do not use eval	See also: eval is evil.
M28	Warning	Unreachable	Indicates that the underlined statement will never be executed.
M29	Warning	Do not use with	See also: Unexpected 'with'.
M30	Warning	Do not use comma expressions	
M31	Warning	Unnecessary message suppression	
M103	Warning	Name is already a formal parameter	
M104	Warning	Name is already a function	
M105	Warning	Var is used before its declarationname	
M106	Warning	Name already is a var	
M107	Warning	Name is declared more than once	Variables declared in a function are always visible everywhere in the function, even when declared in nested blocks or statement conditions. Redeclaring a variable has no effect. for
M108	Warning	Function is used before its declarationname	See also: {a} was used before it was defined.
M109	Warning	Do not use as a constructorBoolean	See also: Do not use {a} as a constructor.
M110	Warning	Do not use as a constructorString	See also: Do not use {a} as a constructor.
M111	Warning	Do not use as a constructorObject	See also: Do not use {a} as a constructor.
M112	Warning	Do not use as a constructorArray	See also: Do not use {a} as a constructor.
M113	Warning	Do not use as a constructorFunction	See also: Do not use {a} as a constructor.
M114	Hint	The keyword and the opening parenthesis should be separated	See also: Expected exactly one space between {a} and {b}.
ld	Severity	by a single spacefunction Message	Description

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M300	Severity	Unknown component	Description
M227	Error	Do not mix translation functions in a UI file (.ui.qml)	Even though several different translation functions, such as and are supported, you should pick one and use it consistently within a UI file. For more information, see Qt QML Methods.qsTrqsTrId
M226	Error	Referencing the parent of the root item is not supported in a UI file (.ui.qml)	For more information about supported features, see UI Files.
M225	Error	States are only supported in the root item in a UI file (.ui.qml)	For more information about supported features, see UI Files.
M224	Error	Behavior type is not supported in a UI file (.ui.qml)	For more information about supported QML types, see UI Files.
M223	Error	JavaScript blocks are not supported in a UI file (.ui.qml)	For more information about supported features, see UI Files.
M222	Error	Functions are not supported in a UI file (.ui.qml)	For a list of supported JavaScript functions, see Supported Methods.
M221	Error	This type (type name) is not supported in a UI file (.ui.qml)	For more information about supported QML types, see UI Files.
M220	Error	This type (type name) is not supported as a root element of a UI file (.ui.qml)	For more information about supported QML types, see UI Files.
M202	Hint	Use only one statement per line	
M201	Hint	Place var declarations at the start of a function	See also: Move 'var' declarations to the top of the function.
M129	Error	Type cannot be instantiated recursively	
M128	Error	A state cannot have the specified child item	
M127	Warning	Expression statements should be assignments, calls or delete expressions only	
M126	Warning	== and may perform type coercion, use or to avoid it!====!==	The non-strict equality comparison is allowed to convert its arguments to a common type. That can lead to unexpected results such as being true. Use the strict equality operators and and be explicit about conversions you require. ' \t\r\n' == 0===!==
M123	Hint	Unnecessary parentheses	
M121	Hint	Declare all function vars on a single line	
M119	Warning	Confusing minuses	See also: Confusing minuses.
M117	Warning	Confusing pluses	See also: Confusing pluses.
	Warning	Do not use void expressions	

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ľ	V1302	Error	Could not resolve the prototype name	
ľ	M303	Error	Prototype cycle, the last non- repeated component is name	
ľ	M304	Error	Invalid property type name	
ľ	M305	Warning	== and perform type coercion, use or to avoid it!====!==	See M126.
Γ	M306	Warning	Calls of functions that start with an uppercase letter should use new	By convention, functions that start with an uppercase letter are constructor functions that should only be used with .new
ľ	M307	Warning	Use only with functions that start with an uppercase letternew	See also: Do not use {a} as a constructor.
ľ	M308	Warning	Do not use as a constructorNumber	See also: Do not use {a} as a constructor.
ľ	M309	Hint	Use spaces around binary operators	
ľ	M310	Warning	Unintentional empty block, use ({}) for empty object literal	
r	M311	Hint	Use instead of or to improve performancetypevarvariant	
ľ	M312	Error	Missing property number	
ľ	M313	Error	Object value expected	
ľ	VI314	Error	Array value expected	
ľ	M315	Error	Value value expected	
ľ	M316	Error	Maximum number value is number	
r	M317	Error	Minimum number value is number	
ľ	VI318	Error	Maximum number value is exclusive	
ľ	M319	Error	Minimum number value is exclusive	
ľ	M320	Error	String value does not match required pattern	
ľ	M321	Error	Minimum string value length is number	
ľ	M322	Error	Maximum string value length is number	
ľ	M323	Error	Number elements expected in array value	See also: The array literal notation [] is preferable.
ľ	и 5 24	Severity	Hit maximum recursion limit	Description



M325	Warning	Logical value does not depend on actual values	
M326	Error	Components are only allowed to have a single child element	For more information, see Component.
M327	Warning	Components require a child element	For more information, see Component.
M400	Warning	Duplicate import	An import statement has been added twice. For more information, see Import Statements.

Resetting the Code Model

If you change the build and run kit when you have QML files open in the code editor, the code model might become corrupt. The following error message indicates that this might have happened: *Using Qt Quick 1 code model instead of Qt Quick 2*.

You can see the error message when you move the mouse pointer over code that Qt Creator underlines in the code editor or when you open a QML file in Qt Design Studio.

To reset the code model, select **Tools** > **QML/JS** > **Reset Code Model**.

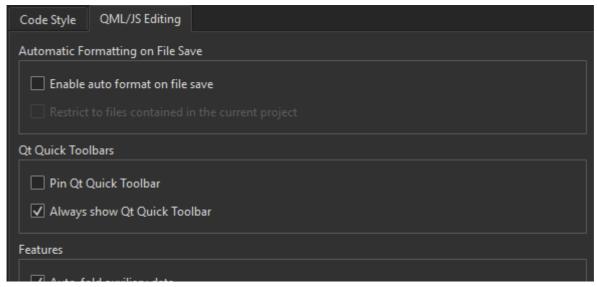
If this does not help, try changing the QML emulation layer to the one that was built with the same Qt version as the one selected in the build and run kit.

Inspecting QML and JavaScript

To inspect QML and JavaScript properties, methods, and enums, move the cursor over them and select **Tools** > **QML/JS** > **Inspect API for Element Under Cursor**.

Automatically Formatting QML/JS Files

To automatically format QML/JS files upon saving, select **Edit** > **Preferences** > **Qt Quick** > **QML/JS Editing** > **Enable** auto format on file save.





< Semantic Highlighting

Completing Code >

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