

## 检查代码语法

当你编写代码时，Qt设计工作室会检查代码语法。当Qt Design Studio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。

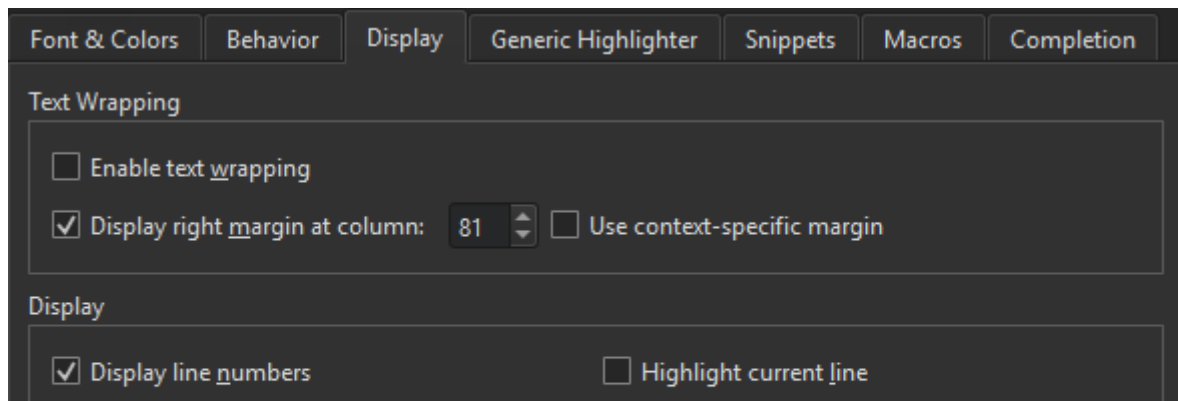
同样，当您处理 JavaScript 对象表示法（JSON）实体的实例时，Qt 设计工作室会在 JSON 数据结构中为错误加下划线。

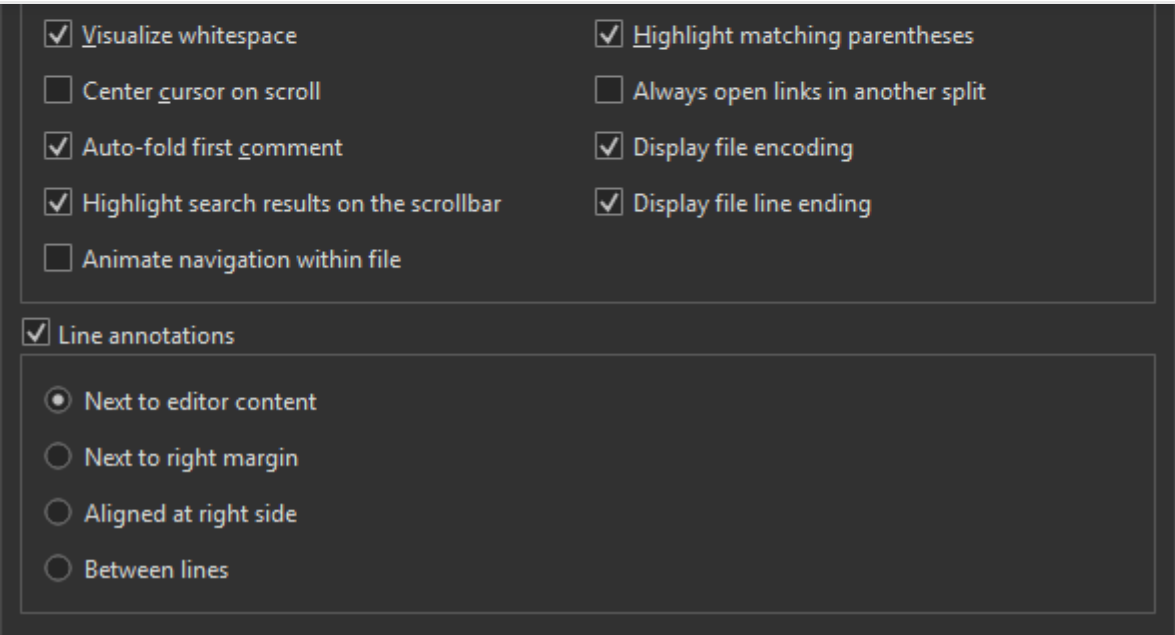
除了下划线外，错误和警告还用图标标记并带有注释。编写 QML 或脚本代码时，注释可能包含[脚本中列出的错误代码和 QML 错误代码](#)。

```
1  import QtQuick 2.10
2  import myapp 1.0
3
4  Rectangle {
5      width: Constants.width
6      height: Constants.height
7
8      clor                                Invalid property name "clor". (M16)
9
10
11
12
```

## 指定线条注释位置

若要指定批注的显示位置，请选择“**编辑**>**首选项**”>“**文本编辑器**”>“**显示**>**行批注**”，然后选择是直接显示在代码旁边、与代码右侧对齐还是在右边距中显示批注。如果通常没有足够的空间在文本旁边显示批注，则在行之间显示批注会很有用。





如果通过取消选中复选框来隐藏批注，则可以将鼠标指针移到图标上以查看它们。

## 脚本和 QML 错误代码

您可以对项目中的 QML 和 JavaScript 代码运行静态检查，以查找常见问题。要运行检查，请选择“**工具**”> **QML/JS** > “**运行检查**”或按 Ctrl+Shift+C。结果显示在“**问题**”中的“**QML**”和“**QML 分析**”筛选器中。

许多错误消息与道格拉斯·克洛克福德的 **JSLint** 工具中的错误消息类似。有关 JSLint 错误的更多信息，请参见 **JSLint 错误说明**。

编号	严厉	消息	描述: _____
米1	错误	枚举的值无效	
平方米 米	错误	枚举值必须是字符串或数字	
M3	错误	预期的数字值	
米4	错误	预期布尔值	
米5	错误	预期的字符串值	
米6	错误	无效网址	
米7	警告	文件或目录不存在	
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	Error	Invalid id	See also: Expected an identifier and instead saw '{a}' (a reserved word).
M15	Error	Duplicate id	Ids in a file must be unique. See also: Duplicate key '{a}'.
编号	严厉	消息	描述: _____

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 <code>, or</code> . Alternatively you can indicate intentional fall through by ending with a comment. <code>breakreturncontinue// fall through</code>
M23	Warning	Do not use <code>eval</code>	See also: <code>eval is evil</code> .
M28	Warning	Unreachable	Indicates that the underlined statement will never be executed.
M29	Warning	Do not use <code>with</code>	See also: <code>Unexpected 'with'</code> .
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. Redefining a variable has no effect. <code>for</code>
M108	Warning	Function is used before its declarationname	See also: <code>{a} was used before it was defined</code> .
M109	Warning	Do not use <code>as a constructorBoolean</code>	See also: <code>Do not use {a} as a constructor</code> .
M110	Warning	Do not use <code>as a constructorString</code>	See also: <code>Do not use {a} as a constructor</code> .
M111	Warning	Do not use <code>as a constructorObject</code>	See also: <code>Do not use {a} as a constructor</code> .
M112	Warning	Do not use <code>as a constructorArray</code>	See also: <code>Do not use {a} as a constructor</code> .
M113	Warning	Do not use <code>as a constructorFunction</code>	See also: <code>Do not use {a} as a constructor</code> .
M114	Hint	The keyword and the opening parenthesis should be separated by a single spacefunction	See also: <code>Expected exactly one space between {a} and {b}</code> .
M115	Warning	Do not use stand-alone blocks	Blocks do not affect variable scoping. Thus blocks that are not associated to <code>, , etc</code> have no effect and should be avoided <code>if while</code>
编号	严厉	消息	描述: -----

M117	Warning	Confusing pluses	See also: <a href="#">Confusing pluses.</a>
M119	Warning	Confusing minuses	See also: <a href="#">Confusing minuses.</a>
M121	Hint	Declare all function vars on a single line	
M123	Hint	Unnecessary parentheses	
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===!=
M127	Warning	Expression statements should be assignments, calls or delete expressions only	
M128	Error	A state cannot have the specified child item	
M129	Error	Type cannot be instantiated recursively	
M201	Hint	Place var declarations at the start of a function	See also: <a href="#">Move 'var' declarations to the top of the function.</a>
M202	Hint	Use only one statement per line	
M203	Warning	Imperative code is not supported in Qt Design Studio	
M204	Warning	This QML type is not supported in Qt Design Studio	
M205	Warning	Reference to parent QML type cannot be resolved correctly by Qt Design Studio	
M206	Warning	This visual property binding cannot be evaluated in the local context and might not show up in Qt Design Studio as expected	
M207	Warning	Qt Design Studio only supports states in the root QML type	
M208	Error	This id might be ambiguous and is not supported in Qt Design Studio	
M209	Error	This type (type name) is not supported as a root element in Qt Design Studio	
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 <a href="#">UI Files.</a>
M221	Error	This type (type name) is not supported in a <b>消息</b> file (.ui.qml)	For more information about supported QML types, see <a href="#">UI Files.</a> <b>描述:</b> _____

M223	Error	JavaScript blocks are not supported in a UI file (.ui.qml)	For more information about supported features, see <a href="#">UI Files</a> .
M224	Error	Behavior type is not supported in a UI file (.ui.qml)	For more information about supported QML types, see <a href="#">UI Files</a> .
M225	Error	States are only supported in the root item in a UI file (.ui.qml)	For more information about supported features, see <a href="#">UI Files</a> .
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 <a href="#">UI Files</a> .
M227	Error	Do not mix translation functions in a UI file (.ui.qml)	Even though several different translation functions, such as <code>qsTr</code> and <code>qsTrId</code> are supported, you should pick one and use it consistently within a UI file. For more information, see <a href="#">Qt QML Methods</a> .
M300	Error	Unknown component	
M301	Error	Could not resolve the prototype of <code>nameobject</code>	
M302	Error	Could not resolve the prototype name	
M303	Error	Prototype cycle, the last non-repeated component is name	
M304	Error	Invalid property type name	
M305	Warning	<code>==</code> and <code>perform</code> type coercion, use <code>!</code> to avoid it <code>! === ! ==</code>	See <a href="#">M126</a> .
M306	Warning	Calls of functions that start with an uppercase letter should use <code>new</code>	By convention, functions that start with an uppercase letter are constructor functions that should only be used with <code>.new</code>
M307	Warning	Use <code>only</code> with functions that start with an uppercase letter <code>new</code>	See also: <a href="#">Do not use {a} as a constructor</a> .
M308	Warning	Do not use <code>as a constructor</code> <code>Number</code>	See also: <a href="#">Do not use {a} as a constructor</a> .
M309	Hint	Use spaces around binary operators	
M310	Warning	Unintentional empty block, use <code>{}</code> for empty object literal	
M311	Hint	Use <code>instead of</code> or <code>to improve performance</code> <code>typevarvariant</code>	
M312	Error	Missing property number	
M313	Error	Object value expected	
M314	Error	Array value expected	
M315	Error	Value value expected	
M316	Error	Maximum number value is	

		number	
M318	Error	Maximum number value is exclusive	
M319	Error	Minimum number value is exclusive	
M320	Error	String value does not match required pattern	
M321	Error	Minimum string value length is number	
M322	Error	Maximum string value length is number	
M323	Error	Number elements expected in array value	See also: <a href="#">The array literal notation [] is preferable.</a>
M324	Error	Hit maximum recursion limit visiting AST, the code model will be unreliable and most likely invalid	
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 <a href="#">Component</a> .
M327	Warning	Components require a child element	For more information, see <a href="#">Component</a> .
M400	Warning	Duplicate import	An import statement has been added twice. For more information, see <a href="#">Import Statements</a> .

## 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 Design Studio 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**.

## 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**.

Code Style

QML/JS Editing

Automatic Formatting on File Save

☐ Enable auto format on file save

☐ Restrict to files contained in the current project

Qt Quick Toolbars

☐ Pin Qt Quick Toolbar

☒ Always show Qt Quick Toolbar

Features

☒ Auto-fold auxiliary data

Open .ui.qml files with: 

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< Semantic Highlighting

Completing Code >



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