Subject: [PROPOSAL] CppCheck support
Posted by Oblivion on Sun, 22 Jan 2023 17:00:46 GMT
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Hi,

I've been using CppCheck for a long time, and found it very useful. It is a very popular free static analyzer tool with lots of features and it is easy to integrate.

While its own parser is very good, it also provides an experimental clang AST backend, so it is very flexible.

I am currently integrating it with theIDE, and the integration is very smooth. So I am proposing to add cppcheck support to TheIDE.

My Plan is to make it available to public before U++ 2023 1, in a usable/stable state.

What it requires.

0. CppCheck binary.
1. A single file in TheIDE's codebase (CppCheck.cpp)
2. Detection of CppCheck binary (HasCppCheck() function)
3. A settings pane, in theIDE's settings dialog (will be available only if the binary is detected).
4. Color entries in (Settings/Syntax Highligting pane) for CppCheck error severity types (style, warning, performance, portability, etc.)

5. It will have the ability to check
   a) A single file
   b) A package
   c) Workspace (all packages)
   This will require adding menu and toolbar entries when cppcheck binary is detected.
   (Similar to existing "Compile $FILENAME" or "Build $PACKAGE" entries -> "Analyze $PACKAGE)

See the below screenshot for a working version (initial)

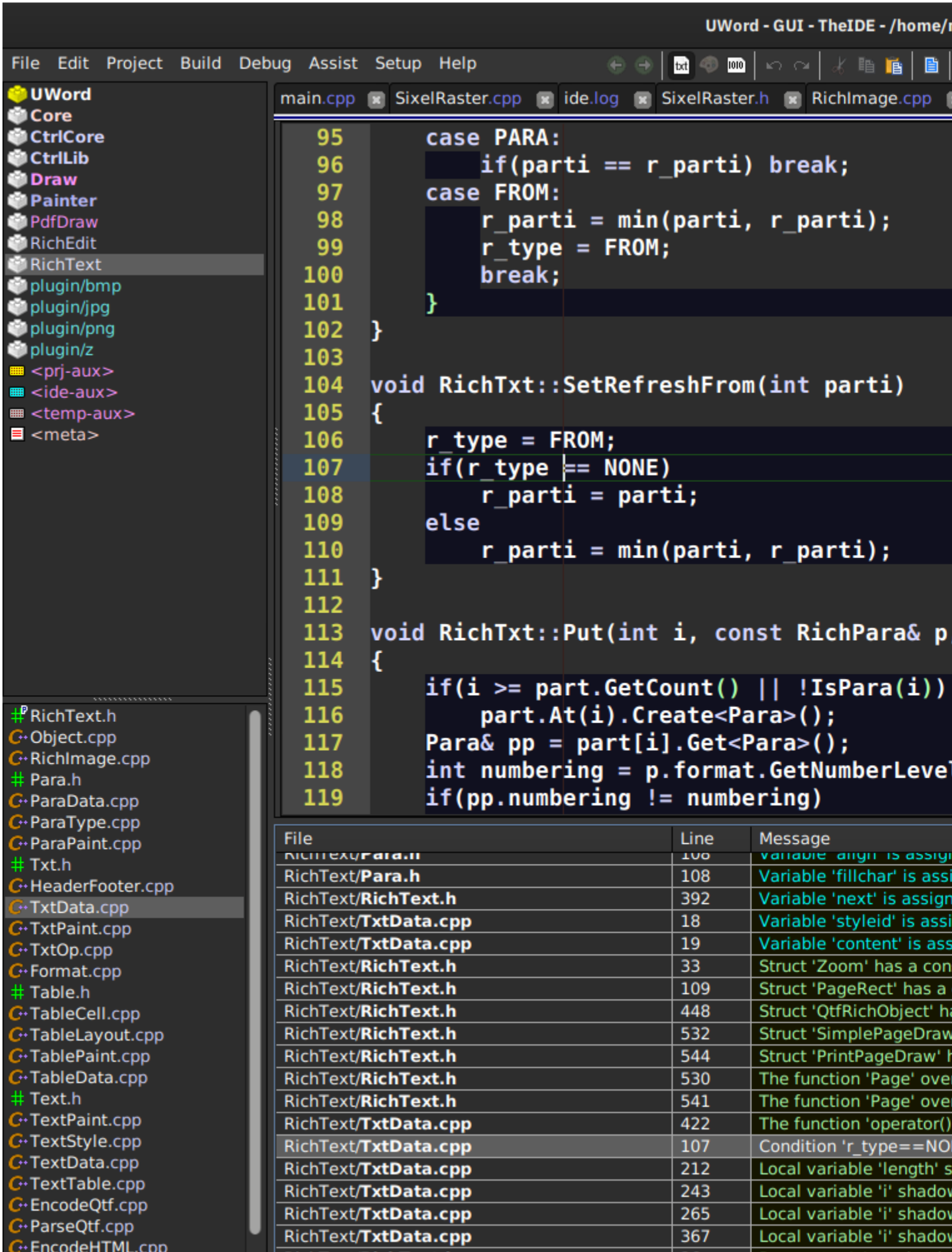
I will create a branch (theide_cppcheck) in my fork of upp and make the source code available so others can participate.

What do you think?

Best regards
Oblivion,

File Attachments

1) Ekran Görüntüsü - 2023-01-22 19-41-52.png , downloaded 1417 times


UWord - GUI - TheIDE - /home/
File Edit Project Build Debug Assist Setup Help
UWord
Core
CtrlCore
CtrlLib
Draw
Painter
PdfDraw
RichEdit
RichText
plugin/bmp
plugin/jpg
plugin/png
plugin/z
<prj-aux>
<ide-aux>
<temp-aux>
<meta>
main.cpp
SixelRaster.cpp
ide.log
SixelRaster.h
RichImage.cpp
95 case PARA:
96 if(parti == r_parti) break;
97 case FROM:
98 r_parti = min(parti, r_parti);
99 r_type = FROM;
100 break;
101 }
102 }
103
104 void RichTxt::SetRefreshFrom(int parti)
105 {
106 r_type = FROM;
107 if(r_type == NONE)
108 r_parti = parti;
109 else
110 r_parti = min(parti, r_parti);
111 }
112
113 void RichTxt::Put(int i, const RichPara& p
114 {
115 if(i >= part.GetCount() || !IsPara(i))
116 part.At(i).Create<Para>();
117 Para& pp = part[i].Get<Para>();
118 int numbering = p.format.GetNumberLeve
119 if(pp.numbering != numbering)
RichText.h
Object.cpp
RichImage.cpp
Para.h
ParaData.cpp
ParaType.cpp
ParaPaint.cpp
Txt.h
HeaderFooter.cpp
TxtData.cpp
TxtPaint.cpp
TxtOp.cpp
Format.cpp
Table.h
TableCell.cpp
TableLayout.cpp
TablePaint.cpp
TableData.cpp
Text.h
TextPaint.cpp
TextStyle.cpp
TextData.cpp
TextTable.cpp
EncodeQtf.cpp
ParseQtf.cpp
EncodeHTML.cpp
File Line Message
RichText/Para.h 108 Variable 'fillchar' is assi
RichText/RichText.h 392 Variable 'next' is assign
RichText/TxtData.cpp 18 Variable 'styleid' is assi
RichText/TxtData.cpp 19 Variable 'content' is ass
RichText/RichText.h 33 Struct 'Zoom' has a con
RichText/RichText.h 109 Struct 'PageRect' has a
RichText/RichText.h 448 Struct 'QtfRichObject' ha
RichText/RichText.h 532 Struct 'SimplePageDraw
RichText/RichText.h 544 Struct 'PrintPageDraw' h
RichText/RichText.h 530 The function 'Page' ove
RichText/RichText.h 541 The function 'Page' ove
RichText/TxtData.cpp 422 The function 'operator()
RichText/TxtData.cpp 107 Condition 'r_type==NO
RichText/TxtData.cpp 212 Local variable 'length' s
RichText/TxtData.cpp 243 Local variable 'i' shadow
RichText/TxtData.cpp 265 Local variable 'i' shadow
RichText/TxtData.cpp 367 Local variable 'i' shadow