

## Commit description

Re-show introduction  Pause

Entire word search rewritten: Now the search is done as usual, then before returning the result it is checked to be a whole word, if not, the next result is searched (and checked). A whole word has the following conditions:

start of word :

- beginning of the line
- starts with a symbol or space
- char before the first char is a symbol or space

end of word:

- end of line
- ends with a symbol or space
- char next to the last char is a symbol or space

## Code changes

Below you find the code changes to review. The old version of the code is on the left, the new version is on the right.

To add a review remark, click on the respective line number. To delete it, click on it again and delete the remark's text. If a defect spans multiple lines, just mark one of those lines. If similar defects appear multiple times, please mark every occurrence. If you suspect something could be a defect but are not 100% sure, it's better to add a review remark.

At several of the change parts, you can show the whole changed method by clicking on "(Show more context)".

org/experiment/editor/search/SearchAndReplace.java, \_replace()

```
1210     SearchMatcher matcher, int start, int end,
1211     boolean smartCaseReplace)
1212     throws Exception
1213     {
1214         int occurCount = 0;
1215
1216         boolean endOfLine = (buffer.getLineEndOffset(
1217             buffer.getLineOfOffset(end)) - 1 == end);
```

org/experiment/editor/search/SearchAndReplace.java, getSearchMatcher()

org/experiment/editor/search/SearchAndReplace.java, \_replace() [\(Show more context\)](#)

```
1190     SearchMatcher matcher, int start, int end,
1191     boolean smartCaseReplace)
1192     throws Exception
1193     {
1194         String wordBreakChars =
1195             (String) buffer.getMode().getProperty("wordBreakChars");
1196         matcher.setNoWordSep(wordBreakChars);
1197         int occurCount = 0;
1198
1199         boolean endOfLine = (buffer.getLineEndOffset(
1200             buffer.getLineOfOffset(end)) - 1 == end);
```

org/experiment/editor/search/SearchAndReplace.java, getSearchMatcher()  
[\(Show more context\)](#)

```

323     return null;
324
325     if (regexp)
326     {
327         Pattern re = Pattern.compile(search, -
328             PatternSearchMatcher.getFlag(ignoreCase));
329         matcher = new PatternSearchMatcher(re, ignoreCase);
330     }
331     else if(wholeWord)
332     {
333     String s = Pattern.quote(search);
334     String begin;
335     if (Character.isLetter(search.charAt(0)))
336     {
337     begin = "(?:\\b|^)";
338     }
339     else
340     {
341     begin = "(?:\\B|^)";
342     }
343     String end;
344     if (Character.isLetter(search.charAt(search.length() - 1)))
345     {
346     end = "(?:\\b|$)";
347     }
348     else
349     {
350     end = "(?:\\B|$)";
351     }
352     matcher = new PatternSearchMatcher(begin+s+end, ignoreCase);
353     }
354     else
355     matcher = new BoyerMooreSearchMatcher(search, ignoreCase);
356
357     return matcher;
358 }

```

org/experiment/editor/search/SearchAndReplace.java, find()

```

323     return null;
324
325     if (regexp)
326     {
327         Pattern re = Pattern.compile(search,
328             PatternSearchMatcher.getFlag(ignoreCase));
329         matcher = new PatternSearchMatcher(re, ignoreCase);
330     }
331     else
332     matcher = new BoyerMooreSearchMatcher(
333     search, ignoreCase, wholeWord);
334
335     return matcher;
336 }

```

org/experiment/editor/search/SearchAndReplace.java, find() [\(Show more context\)](#)

```
672     startOfLine = (buffer.getLineStartOffset(
673         buffer.getLineOfOffset(start)) == start);
674     endOfLine = true;
675 }
676 SearchMatcher.Match match = matcher.nextMatch(text,
677     startOfLine, endOfLine, firstTime, reverse);
678 if(match != null)
679 {
```

org/experiment/editor/search/SearchMatcher.java

```
649     startOfLine = (buffer.getLineStartOffset(
650         buffer.getLineOfOffset(start)) == start);
651     endOfLine = true;
652 }
653
654 String noWordSep =
655     (String) buffer.getMode().getProperty("noWordSep");
656 matcher.setNoWordSep(noWordSep);
657 SearchMatcher.Match match = matcher.nextMatch(text,
658     startOfLine, endOfLine, firstTime, reverse);
659 if(match != null)
660 {
```

org/experiment/editor/search/SearchMatcher.java, isEndWord()

```
109 private boolean isEndWord(char current, char next)
110 {
111     int currentCharType = TextUtilities.getCharType(current, noWordSep);
112     if (currentCharType != TextUtilities.WORD_CHAR)
113         return true;
114
115     int nextCharType = TextUtilities.getCharType(next, noWordSep);
116     return nextCharType == TextUtilities.WORD_CHAR;
117 }
```

org/experiment/editor/search/SearchMatcher.java

org/experiment/editor/search/SearchMatcher.java, setNoWordSep()

```
55 /**
56  * @param noWordSep the chars that are considered as word chars for
57  *                   this search
58  * @since version 4.5pre1
59  */
60 public void setNoWordSep(String noWordSep)
61 {
62     if (this.noWordSep == null)
63         this.noWordSep = "_";
64     else
65         this.noWordSep = noWordSep;
66 }
```

org/experiment/editor/search/SearchMatcher.java

org/experiment/editor/search/SearchMatcher.java, isWholeWord()

53

```
79  /**
80  * Check if the result is a whole word
81  * @param text the full text search
82  * @param start the start match
83  * @param end the end match
84  * @return true if the word is a whole word
85  */
86  protected boolean isWholeWord(CharSequence text, int start, int end)
87  {
88      char firstChar = text.charAt(start);
89      char prevChar = text.charAt(start - 1);
90      if (!isEndWord(firstChar, prevChar))
91      {
92          return false;
93      }
94
95      char lastChar = text.charAt(end - 1);
96      char nextChar = text.charAt(end);
97      if (!isEndWord(lastChar, nextChar))
98      {
99          return false;
100     }
101
102     return true;
103 }
```

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org/experiment/editor/search/SearchMatcher.java

org/experiment/editor/search/SearchMatcher.java

54

```
124  /**
125  * This should contains the noWordSep property of the edit mode of your
126  * buffer. It contains a list of chars that should be considered as word
127  * chars
128  */
129  protected String noWordSep;
```

org/experiment/editor/search/SearchMatcher.java

org/experiment/editor/search/SearchMatcher.java, getNoWordSep()

53

67

```

/**
 * Returns the noWordSep that should be used.
 * This is used by the HyperSearchOperationNode that
 * needs to remember this property since it can have
 * to restore it.
 * @return the noWordSep property
 */
String getNoWordSep()
{
    return noWordSep;
}

```

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org/experiment/editor/search/SearchMatcher.java

org/experiment/editor/search/SearchMatcher.java

54

120

```

/**
 * true if this SearchMatcher search for whole words only.
 */
protected boolean wholeWord;

```

org/experiment/editor/search/SearchMatcher.java

org/experiment/editor/search/SearchMatcher.java

```

55     public static class Match
56     {
57         public int start;
58         public int end;
59         public String[] substitutions;
60     }

```

```

130     public static class Match
131     {
132         public int start;
133         public int end;
134         public String[] substitutions;
135
136         @Override
137         public String toString()
138         {
139             return "Match[" + start + ',' + end + ']';
140         }
141     }

```

org/experiment/editor/search/SearchDialog.java, updateEnabled()

org/experiment/editor/search/SearchDialog.java, updateEnabled() [\(Show more context\)](#)

```

705     searchForward.setEnabled(reverseEnabled);
706     if(!reverseEnabled)
707         searchForward.setSelected(true);
708
709     wholeWord.setEnabled(!regexp.isSelected());
710
711     filter.setEnabled(searchAllBuffers.isSelected()
712         || searchDirectory.isSelected());
713
714     boolean searchDirs = searchDirectory.isSelected();

```

```

705     searchForward.setEnabled(reverseEnabled);
706     if(!reverseEnabled)
707         searchForward.setSelected(true);
708
709     filter.setEnabled(searchAllBuffers.isSelected()
710         || searchDirectory.isSelected());
711
712     boolean searchDirs = searchDirectory.isSelected();

```

org/experiment/editor/search/HyperSearchOperationNode.java, getSearchMatcher()

```
224 public SearchMatcher getSearchMatcher()  
225 {  
226     return searchMatcher;  
227 }
```

org/experiment/editor/search/HyperSearchOperationNode.java, getSearchMatcher()

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```
226 public SearchMatcher getSearchMatcher()  
227 {  
228     // The searchMatcher has to remember the noWordSep property that  
229     // was used because in case of HyperSearchOperationNode, the same  
230     // SearchMatcher is used for several Buffers that can be of  
231     // different edit modes.  
232     searchMatcher.setNoWordSep(noWordSep);  
233     return searchMatcher;  
234 }
```

org/experiment/editor/search/HyperSearchOperationNode.java

```
46 private boolean treeViewDisplayed;  
47 private final String searchString;  
48 private List<DefaultMutableTreeNode> resultNodes;  
49 private SearchMatcher searchMatcher;
```

org/experiment/editor/search/HyperSearchOperationNode.java

```
46 private boolean treeViewDisplayed;  
47 private final String searchString;  
48 private List<DefaultMutableTreeNode> resultNodes;  
49 private SearchMatcher searchMatcher;  
50 private String noWordSep;
```

org/experiment/editor/search/HyperSearchOperationNode.java, constructor

```
51 public HyperSearchOperationNode(  
52     String searchString, SearchMatcher searchMatcher)  
53 {  
54     this.searchString = searchString;  
55     this.searchMatcher = searchMatcher;  
56 }
```

org/experiment/editor/search/HyperSearchOperationNode.java, constructor

```
52 public HyperSearchOperationNode(  
53     String searchString, SearchMatcher searchMatcher)  
54 {  
55     this.searchString = searchString;  
56     this.searchMatcher = searchMatcher;  
57     noWordSep = searchMatcher.getNoWordSep();  
58 }
```

org/experiment/editor/search/PatternSearchMatcher.java

org/experiment/editor/search/PatternSearchMatcher.java, constructor

53

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```

53  /**
54   * Creates a new regular expression string matcher.
55   * @see java.util.regex.Pattern
56   * @param re the compiled regex
57   * @param ignoreCase <code>true</code> if you want to ignore case
58   * @param wholeWord <code>true</code> to search for whole word only
59   * @since version 4.5pre1
60   */
61   public PatternSearchMatcher(
62       Pattern re, boolean ignoreCase, boolean wholeWord)
63   {
64       this(re.pattern(), ignoreCase);
65       this.re = re;
66       this.wholeWord = wholeWord;
67   }

```

org/experiment/editor/search/PatternSearchMatcher.java, nextMatch()

org/experiment/editor/search/PatternSearchMatcher.java, nextMatch()  
[\(Show more context\)](#)

```

156     int _end = match.end();
157
158     returnValue.start = _start;
159     returnValue.end = _end;
160
161     // For non-reversed searches, we break immediately
162     // to return the first match. For reversed searches,
163     // we continue until no more matches are found
164     if (!reverse || !match.find())

```

```

170     int _end = match.end();
171
172     returnValue.start = _start;
173     returnValue.end = _end;
174
175     if (wholeWord && !isWholeWord(text, _start, _end))
176     {
177         if (!match.find())
178             return null;
179     }
180
181     // For non-reversed searches, we break immediately
182     // to return the first match. For reversed searches,
183     // we continue until no more matches are found
184     if (!reverse || !match.find())

```

org/experiment/editor/search/PatternSearchMatcher.java, constructor

org/experiment/editor/search/PatternSearchMatcher.java, constructor  
[\(Show more context\)](#)

```

58     * @since version 4.3pre13
59     */
60     public PatternSearchMatcher(Pattern re, boolean ignoreCase)
61     {
62         this(re.pattern(), ignoreCase);
63         this.re = re;
64     }

```

```

73     * @since version 4.3pre13
74     */
75     public PatternSearchMatcher(Pattern re, boolean ignoreCase)
76     {
77         this(re, ignoreCase, false);
78     }

```

org/experiment/editor/search/HyperSearchRequest.java, doHyperSearch()

```
240 private int doHyperSearch(Buffer buffer, int start, int end,
241     DefaultMutableTreeNode bufferNode)
242 {
243     int resultCount = 0;
244     EditorTextArea textArea = Editor.getActiveView().getTextArea();
245     int caretLine = textArea.getBuffer() == buffer ?
246         textArea.getCaretLine() : -1;
```

org/experiment/editor/search/HyperSearchRequest.java, doHyperSearch()

[\(Show more context\)](#)

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[Pause](#)

```
240 private int doHyperSearch(Buffer buffer, int start, int end,
241     DefaultMutableTreeNode bufferNode)
242 {
243     String noWordSep =
244         (String) buffer.getMode().getProperty("noWordSep");
245     matcher.setNoWordSep(noWordSep);
246     int resultCount = 0;
247     EditorTextArea textArea = Editor.getActiveView().getTextArea();
248     int caretLine = textArea.getBuffer() == buffer ?
249         textArea.getCaretLine() : -1;
```

org/experiment/editor/search/BoyerMooreSearchMatcher.java

35

org/experiment/editor/search/BoyerMooreSearchMatcher.java, constructor

```
35 /**
36  * Creates a new string literal matcher.
37  * @param pattern the search pattern
38  * @param ignoreCase <code>>true</code> if you want to ignore case
39  */
40 public BoyerMooreSearchMatcher(String pattern, boolean ignoreCase)
41 {
42     this(pattern, ignoreCase, false);
43 }
```

org/experiment/editor/search/BoyerMooreSearchMatcher.java, nextMatch()

org/experiment/editor/search/BoyerMooreSearchMatcher.java, nextMatch()

[\(Show more context\)](#)

```

68     else
69     {
70         returnValue.start = pos;
71         returnValue.end = pos + pattern.length;
72         return returnValue;
73     }
74 }

```

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```

82     else
83     {
84         returnValue.start = pos;
85         returnValue.end = pos + pattern.length;
86         int _end = returnValue.end;
87         if (wholeWord && !isWholeWord(text, returnValue.start, _end))
88         {
89             CharSequence subText = text.subSequence(_end, text.length());
90             Match match = nextMatch(subText,
91                 start, end, firstTime, reverse);
92             if (match == null)
93                 return null;
94             match.start = match.start + _end;
95             return match;
96         }
97         return returnValue;
98     }
99 }

```

org/experiment/editor/search/BoyerMooreSearchMatcher.java, constructor

```

35 /**
36  * Creates a new string literal matcher.
37  * @param pattern the search pattern
38  * @param ignoreCase <code>>true</code> if you want to ignore case
39  */
40 public BoyerMooreSearchMatcher(String pattern, boolean ignoreCase)
41 {
42     this.pattern = pattern.toCharArray();
43     if(ignoreCase)
44     {
45         for(int i = 0; i < this.pattern.length; i++)
46         {
47             this.pattern[i] = Character.toUpperCase(
48                 this.pattern[i]);
49         }
50     }
51     this.ignoreCase = ignoreCase;
52     pattern_end = this.pattern.length - 1;
53 }

```

org/experiment/editor/search/BoyerMooreSearchMatcher.java, constructor

```

45 /**
46  * Creates a new string literal matcher.
47  * @param pattern the search pattern
48  * @param ignoreCase <code>>true</code> if you want to ignore case
49  * @param wholeWord <code>>true</code> to search for whole word only
50  * @since 4.5pre1
51  */
52 public BoyerMooreSearchMatcher(String pattern, boolean ignoreCase,
53     boolean wholeWord)
54 {
55     this.pattern = pattern.toCharArray();
56     if(ignoreCase)
57     {
58         for(int i = 0; i < this.pattern.length; i++)
59         {
60             this.pattern[i] = Character.toUpperCase(
61                 this.pattern[i]);
62         }
63     }
64     this.ignoreCase = ignoreCase;
65     pattern_end = this.pattern.length - 1;
66     this.wholeWord = wholeWord;
67 }

```

End review ▶

Re-show introduction

⏸ Pause