

This is the sample execution of the Project and the real project had thousands of such records

SAMPLE OF DOCUMENTS (6413 of such records)

```
set expands string expands expands caret set text caret set text string caret text string
builder buf string builder expands length ch expands ch expands length ch expands ch t buf append t n buf
append n caret text buf string buf set length buf append ch buf append ch caret text caret text buf string
caret text buf string caret set text caret text caret set text caret text
```

j text field abbrev field abbrev

j text area caret text area caret

j text area caret text area caret

```
return abbrevi expand user finish type word expand input expand input
```

```
set abbrevi expand user finish type word param expand input type non alphanumer charact automat
attempt expand current abbrev set expand input expand input abbrev expand input expand input
```

Note:- these are the methods extracted from java software jEdit 4.3 and 6413 of such methods found. The content of these methods are then processed bt splitting, stemming and other constrains to make the corpus

SAMPLE OF weighted term frequency FILE

1.4875	0.7466	0.6842	0.8594	1.3529	0.5039	1.5126	5.7216	
0.0000	0.0000	0.0000	0.0000	0.0000	0.6551	0.0000	0.0000	----
4.8343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

SAMPLE of USER QUERIES (150 like this)

save file r o flag j edit doesn t interpret button correctli try cancel file save procedur r o file j edit pre

```
search dialog doesn't focus search dialog does focus open search text goes editor buffer instead use jedit preferences
sun jdk m red hat run gnome
```

```
file open dialog t handl pathnam hi type path fsb doe path type file box us jedit cv version jdk us work
previou jedit version jiger
```

SAMPLE OF query as a vector

0	1	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	2
0	0	0	0	3	0	0	0	0	0	0	0	2

SAMPLE of similarity values (approx. 10 lac rows)

0 d0 0.0285
 1 d1 0.0773
 2 d2 0.0391
 3 d3 0.1170
 4 d4 0.1528
 5 d5 0.0655

 2276 d2276 0.0655
 2277 d2277 0.0000
 2278 d2278 0.0234
 2279 d2279 0.0102
 2280 d2280 0.0225
 2281 d2281 0.0383

$d_i = (w_{i,1}, w_{i,2}, \dots, w_{i,M})$ cosine similarity between two documents,
 $d_j = (w_{j,1}, w_{j,2}, \dots, w_{j,M})$ d_i and d_j (M is the total number of terms)

$$\begin{aligned} \text{sim}(d_i, d_j) &= \frac{a_i \cdot a_j}{\|d_i\| \|d_j\|} = \\ &= \frac{\sum_{t=1}^M w_{i,t} * w_{j,t}}{\sqrt{\sum_{t=1}^M (w_{i,t})^2} * \sqrt{\sum_{t=1}^M (w_{j,t})^2}} \end{aligned}$$

SAMPLE OF VSM (sorted similarity)

0 d1204 0.6930
 1 d1203 0.6742
 2 d2916 0.6741
 3 d2945 0.6538
 4 d1933 0.6394
 5 d5285 0.6376
 6 d1261 0.6328
 7 d1934 0.6307

 1227 d4336 0.0330
 1228 d143 0.0329
 1229 d5007 0.0328
 1230 d5297 0.0328
 1231 d4252 0.0328
 1232 d650 0.0328
 1233 d2052 0.0327

SAMPLE of featureID for 150 user queries

950961
 981012
 1193683
 1292706
 1382388
 1500938
 1520769

```

---
---
2846169
2882702
2887515
2887516
2896464
2911122

```

SAMPLE of Mappings for 6413 documents to Methods in jEdit4.3

```

org.gjt.sp.jedit.gui.AbbrevEditor.AbbrevEditor()
org.gjt.sp.jedit.gui.AbbrevEditor.getAbbrev()
org.gjt.sp.jedit.gui.AbbrevEditor.setAbbrev(String)
org.gjt.sp.jedit.gui.AbbrevEditor.getExpansion()
---
---
org.gjt.sp.jedit.Abbrevs.addModeAbbrev(String,String,String)
org.gjt.sp.jedit.Abbrevs.save()
org.gjt.sp.jedit.Abbrevs.Abbrevs()
org.gjt.sp.jedit.Abbrevs.load()

```

FINAL RESULT (Evaluation)

featureID	posID	Method Name	Rank in GoldSet	Best Rank
1520774	3506	org.gjt.sp.jedit.MiscUtilities.getPathStart(String)	358	358
1533473	1555	org.gjt.sp.jedit.EditPane.saveCaretInfo()	376	181
	1556	org.gjt.sp.jedit.EditPane.loadCaretInfo()	181	
1536064	2054	org.gjt.sp.jedit.GUIUtilities.requestFocus(Window,Component)	370	370
1538051	2776	org.gjt.sp.jedit.jEdit.showMemoryDialog(View)	2	2
	5012	org.gjt.sp.jedit.gui.StatusBar.propertiesChanged()	1809	
	5015	org.gjt.sp.jedit.gui.StatusBar.statusUpdate(WorkThreadPool,int)	978	
	5021	org.gjt.sp.jedit.gui.StatusBar.updateBufferStatus()		
	-1	org.gjt.sp.jedit.gui.StatusBar.MemoryStatus.getToolTipText()		
	-1	org.gjt.sp.jedit.gui.StatusBar.MemoryStatus.paintComponent(Graphics)		
1538702	2042	org.gjt.sp.jedit.GUIUtilities.loadGeometry(Window,Container,String)	870	1
	2043	org.gjt.sp.jedit.GUIUtilities.loadGeometry(Window,String)	992	

