

Time Plan about implementation of Hyphenation support in AbiWord

Chen Xiajian

| Date | Plan to do |
|--------|--|
| Week 1 | <p>1 Read more about Enchant and get familiar with the use of Enchant in AbiWord (this step will make an abstraction of the hyphenation algorithm)</p> <p>2 Search and find more libraries which can be used to determine the breakpoints within words. Includes:</p> <ul style="list-style-type: none"> ➤ Some TeX formatting system ➤ Open Source libraries ➤ If possible pull out just the code we need from some package. ➤ Care about the language factors(besides English) <p>3 Learn more about Hyphenation algorithm</p> <p>Deliverable 1: Make a summary about Enchant and the open source hyphenation libraries Choose one most suitable for us</p> |
| Week 2 | <p>(continue and finish)</p> <p>1 Some programming test about Open Source hyphenation libraries</p> <p>2 Make a code framework about where to add code(to make code more flexible)</p> <p>3 Design the data structures of Hyphenation</p> <p>4 Building the hyphenationChecker using open source library in Enchant hyphenationChecker is the name I define in Enchant to deal with hyphenation</p> <p>Deliverable 2:</p> <p>1 Summary Document</p> <p>2 Patch about data structures of Hyphenation</p> <p>3 Make an patch about hyphenationChecker</p> |
| Week 3 | <p>1 Fix possibly remaining bugs to have a good foundation for the further.</p> <p>2 Read source code and place hyphenation points called from the Enchant The codes in src/text/fmt/xp/*.h,cpp)</p> <ul style="list-style-type: none"> ➤ fb_LineBreaker.h,cpp) and ➤ fb_Alignment.h,cpp) |

| | |
|---------|---|
| | <p>Deliverable 3:</p> <ol style="list-style-type: none"> 1 Make an patch about implementation of hyphenation points 2 Fix remaining bugs |
| Week 4 | <ol style="list-style-type: none"> 1 Draw the hyphenation characters in AbiWord 2 Find more good dictionary to have a good coverage of different language and words <p>Deliverable 4:</p> <ol style="list-style-type: none"> 1 Make an patch about preliminary results 2 Make a summary of dictionary |
| Week 5 | <p>(continue and finish)</p> <p>According to Martin, it seems that it's a difficult task. Time is needed.</p> <ol style="list-style-type: none"> 1 Have more tests 2 Again, Fix possibly remaining bugs 3 Prepare some document that Google required in Mid Evaluation <p>Deliverable 5:</p> <ol style="list-style-type: none"> 1 Fix remaining bugs 2 Some document that Google require |
| July 15 | Mid Evaluation |
| Week 6 | <ol style="list-style-type: none"> 1 Care about some special languages and special words <p>Deliverable 6:</p> <ol style="list-style-type: none"> 1 Have an more good result to support more language and words |
| Week 7 | <p>Rejoin hyphenated words as they get moved via the users editing. Codes: <code>src/text/fmt/xp/fl_BlockLayout.cpp</code> More tests</p> <p>Deliverable 7:</p> <p>Patch about implementation of this function More tests</p> |
| Week 8 | <ol style="list-style-type: none"> 1 deal with the result: misspell words are correctly handled after hyphenation. 2 Test and Refactor <p>Deliverable 8:</p> <ol style="list-style-type: none"> 1 Patch about implementation of this function 2 better version |

| | |
|------------------|--|
| Week 9 | (continue and finish) 1 Fix new or remaining bugs 2 Some documents what GsoC needed |
| Week 10 | (continue and finish) Time for emergency |
| August 16 | Suggested 'pencils down' date. Take to scrub code, write tests, improve documentation, etc. |
| August 26 | End |