1. Scribble Indentation

February 21, 2014

This document has two sections: scribble indentation rules and scribble indentation functions.

1 Scribble Indentation Rules

The scribble indentation rules are created based on the judgement of *parent parenthesis*. It will perform the indentation on each line of code based on two facts: check *parent parenthesis* and counting *number of parenthesis* till the outmost @ notation that the current line is in. Then the program will put spaces before each line of code based on how many *parent parenthesis* outside and the following *parenthesis judgement rules*

• Tab adjusted: exists items at the same line after [

• One-space adjusted:

```
@centered{
  @bold{blah}
  @italic{blah}
}
@itemlist[
  @item{blah}
  @item{blah}
```

2 Line breaking rules

- Only handle text or text inside { }
- Each line of code's length cannot exceed the given paragraph width limit(e.g. 70 characters per line). When exceed the limitation, the last few *words* separated by #\space will be passed to the next line of code

3 Indentation functions

- (adjust-para-width a-racket:text position width) → boolean?
 position: exact-integer? = current position
 width: exact-integer? = predefined value
 Modify the given paragraph(line) if it exceed width limit by inserting #\newline
 to proper position
- (determine-spaces a-racket:text position) → exact-integer?
 position: exact-integer? = current position
 Based on indentation rules, returns exact integer represents number of #\space to put in front of current paragraph(line)
- (paragraph-indentation a-racket:text posi width) → void?
 posi: exact-integer? = current given position
 width: exact-integer? = user defined line width limitation
 Indent a whole paragraph(multiple lines) that contains the given position