

```
#
# tkmultilistbox.rb : multiple listbox widget
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#
require 'tk'

class TkMultiListbox < TkListbox
  include TkComposite

  # lbox_height : height of listboxes (pixel)
  # title_info : array [ [<title_string>,<init_width>], ... ]
  # keys       : hash {<option>=><value>, ... }
  def initialize_composite(lbox_height, title_info, keys={})
    # argument check
    if (!title_info.kind_of? Array) or (title_info.size < 2)
      raise
    end

    # decide total width
    @width_total = 0
    title_info.each{|title, width| @width_total += width.to_f}

    # virtical scrollbar
    @v_scroll = TkScrollbar.new(@frame, 'orient'=>'vertical')

    # init arrays
    @base_list = []
    @rel_list  = []
    @title_list = []
    @lbox_list = []
    @hscr_list = []

    # rel-table of label=>index
    @name_index = {}

    # create base flames
    @f_title = TkFrame.new(@frame, 'width'=>@width_total)
    @f_lbox  = TkFrame.new(@frame,
      'width'=>@width_total, 'height'=>lbox_height)
    @f_hscr  = TkFrame.new(@frame, 'width'=>@width_total,
      'height'=>@v_scroll.cget('width') +
      2 * @v_scroll.cget('borderwidth'))

    # dummy label to keep the hight of title space
    TkLabel.new(@f_title, 'text'=>'').pack

    # create each listbox
    sum = 0.0
    @rel_list << sum/@width_total
    title_info.each_with_index{|(label, width), idx|
      # set relation between label and index
      if @name_index.include?(label)
        @name_index[label] << idx
      else
        @name_index[label] = [idx]
      end
    }
  end
```