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#!/usr/bin/env python3
# -*- coding: utf-8 -*-
from tkinter import *
from tkinter import ttk
from tkinter.ttk import *
from tkinter.messagebox import *
from tkinter.filedialog import *
from tkinter.colorchooser import *
from confr import *
from progress import *
from tooltip import *

class Configurator:
    colors = {lg('black'): 'black', lg('white'): 'white', lg(
'blue'): 'blue', lg('green'): 'green', lg('yellow'): 'yellow'
, lg('red'): 'red', lg('pink'): 'pink', lg('orange'): 'orange'
, lg('grey'): 'grey', }
    colors_name = [v for v, _ in colors.items()]
    font_lst = ['Courier', 'Calibri', 'Arial']
    lgs = ['an', 'fr', 'al', 'es', 'it', 'ch']
    codages = ['UTF-8', 'UTF-16', 'UTF-4', 'ASCII']
    browsers = ['firefox']
    languages = ['Python', 'C++', 'C', 'Fortran', 'BASIC', 'B
rain F', 'Cobol', 'Assembly']
    nom_bts = {
'copy': lg('copy'),
'cut': lg('cut'),
'past': lg('past'),
'cstyle': lg('cstyle'),
'news': lg('news'),
'new': lg('new'),
'open': lg('open'),
'exit': lg('exit'),
'print': lg('print'),
'save': lg('save'),
'saveas': lg('saveas'),
'undo': lg('undo'),
'redo': lg('redo'),
'search': lg('search'),
'word': lg('word'),
'pdf': lg('pdf'),
'about': lg('about'),
'struct': lg('struct'),
'close': lg('close'),
'savecopyas': lg('savecopyas'),
'replace': lg('replace'),
'gotol': lg('gotol'),
'tasks': lg('tasks'),
'puces': lg('puces'),
'research': lg('research'),}

    def cancel(self):
        self.tk.destroy()
        self.dialoging = False

    def info(self, _):
        showinfo(self.title, lg('MWSNS'))

    def IHM(self):
        if self.dialoging:
            return

        self.dialoging = True
        self.tk = Toplevel(self.master)
        self.tk.iconbitmap(self.ico['config'])
        self.tk.transient(self.master)
        self.tk.title(lg('Configurator'))
        self.tk.resizable(width=False, height=False)

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self.tk.protocol('WM_DELETE_WINDOW', self.cancel)

self.note = ttk.Notebook(self.tk)
self.note.grid(row=0, column=0)

self.root = Frame(self.note)
self.note.add(text = lg('Settings'), child = self.root)

t)

## Liste des cadres

g = LabelFrame(self.root, text=lg('Global'))
g.grid(row=0, column=0, sticky='w')

m = LabelFrame(self.root, text=lg('Menu'))
m.grid(row=1, column=0, sticky='e')

s = LabelFrame(self.root, text=lg('Security'))
s.grid(row=0, column=1, sticky='w')

a = Frame(self.root)
a.grid(row=1, column=1, sticky='w')

d = Frame(a)
d.grid(row=0, column=0)

c = LabelFrame(d, text=lg('Communication'))
c.grid(row=0, column=0, sticky='w')

e = Frame(d)
e.grid(row=0, column=1)

l = LabelFrame(e, text=lg('perso'))
l.grid(row=0, column=0)

k = LabelFrame(e, text=lg('as'))
k.grid(row=1, column=0)

t = LabelFrame(a, text=lg('Text'))
t.grid(row=1, column=0, sticky='w')

v = LabelFrame(a, text=lg('View'))
v.grid(row=2, column=0, sticky='w')

## Cadre g pour les variables globales

self.mode_dark_ = IntVar(master = self.master)
self.mode_dark = Checkbutton(g, text=lg('Dark_Mode'),
variabl e=self.mode_dark_, onvalue=1, offvalue=0)
self.mode_dark.grid(row=0, column=0, sticky='w')
if read('global', 'mode_dark') == '1': self.mode_dark_
.set(1)

self.line_number_ = IntVar(master = self.master)
self.line_number = Checkbutton(g, text=lg('Line_Numbe
r'), variable=self.line_number_, onvalue=1, offvalue=0)
self.line_number.grid(row=1, column=0, sticky='w')
if read('global', 'line_number') == '1': self.line_num
ber_.set(1)

self.enc_ = IntVar(master = self.master)
self.enc = Checkbutton(g, text=lg('Encrypting'), vari
abl e=self.enc_, onvalue=1, offvalue=0)
self.enc.grid(row=2, column=0, sticky='w')
if read('global', 'encrypt') == '1': self.enc_.set(1)

self.puc_ = IntVar(master = self.master)
self.puc = Checkbutton(g, text=lg('Puces'), variable=
self.puc_, onvalue=1, offvalue=0)
self.puc.grid(row=3, column=0, sticky='w')

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        if read('text', 'puces') == '1': self.puc_.set(1)
        self.update_ = IntVar(master = self.master)
        self.update = Checkbutton(g, text=l g('Update'), variable=self.update_, onvalue=1, offvalue=0)
        self.update.grid(row=4, column=0, sticky='w')
        if read('global', 'look_update') == '1': self.update_.set(1)
    set(1)
        self.notifs_ = IntVar(master = self.master)
        self.notifs = Checkbutton(g, text=l g('Notifs'), variable=self.notifs_, onvalue=1, offvalue=0)
        self.notifs.grid(row=5, column=0, sticky='w')
        if read('global', 'notifs') == '1': self.notifs_.set(1)
    )

    minic = Frame(g)
    minic.grid(row=6, column=0, sticky='e')

    Label(minic, text=l g('Codage')).grid(row=0, column=0, sticky='w')
    self.coda = Combobox(minic, value=self.codages, width=6)
    self.coda.grid(row=0, column=1, sticky='w')
    self.coda.current(self.get_codes_pos(read('crypt', 'code'))))
    self.coda.bind('<<ComboboxSelected>>', self.info)
    self.coda.config(state='disabled')

    Label(minic, text=l g('Langage')).grid(row=1, column=0, sticky='w')
    self.lang = Combobox(minic, value=self.languages, width=6)
    self.lang.grid(row=1, column=1, sticky='w')
    self.lang.current(self.get_lang_pos(read('global', 'lang'))))

    ## Cadre m pour les menus

    self.menufile_ = IntVar(master = self.master)
    self.menufile = Checkbutton(m, text=l g('File'), variable=self.menufile_, onvalue=1, offvalue=0)
    self.menufile.grid(row=0, column=0, sticky='w')
    if read('menu', 'file') == '1': self.menufile_.set(1)
    self.menuedit_ = IntVar(master = self.master)
    self.menuedit = Checkbutton(m, text=l g('Edit'), variable=self.menuedit_, onvalue=1, offvalue=0)
    self.menuedit.grid(row=1, column=0, sticky='w')
    if read('menu', 'edit') == '1': self.menuedit_.set(1)
    self.menustyle_ = IntVar(master = self.master)
    self.menustyle = Checkbutton(m, text=l g('Style'), variable=self.menustyle_, onvalue=1, offvalue=0)
    self.menustyle.grid(row=2, column=0, sticky='w')
    if read('menu', 'style') == '1': self.menustyle_.set(1)
    )

    self.menufor_ = IntVar(master = self.master)
    self.menufor = Checkbutton(m, text=l g('Format'), variable=self.menufor_, onvalue=1, offvalue=0)
    self.menufor.grid(row=3, column=0, sticky='w')
    if read('menu', 'format') == '1': self.menufor_.set(1)

    self.menurun_ = IntVar(master = self.master)
    self.menurun = Checkbutton(m, text=l g('Run'), variable=self.menurun_, onvalue=1, offvalue=0)
    self.menurun.grid(row=4, column=0, sticky='w')
    if read('menu', 'run') == '1': self.menurun_.set(1)
    self.menucrypt_ = IntVar(master = self.master)
    self.menucrypt = Checkbutton(m, text=l g('Crypt'), variable=self.menucrypt_, onvalue=1, offvalue=0)

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self.menucrypt.grid(row=5, column=0, sticky='w')
if read('menu', 'crypt') == '1': self.menucrypt_.set(1)
)
self.menuexp_ = IntVar(master = self.master)
self.menuexp = Checkbutton(m_text=lg('Export'), variable=self.menuexp_, onvalue=1, offvalue=0)
self.menuexp.grid(row=6, column=0, sticky='w')
if read('menu', 'export') == '1': self.menuexp_.set(1)

self.menuarch_ = IntVar(master = self.master)
self.menuarch = Checkbutton(m_text=lg('Archive'), variable=self.menuarch_, onvalue=1, offvalue=0)
self.menuarch.grid(row=7, column=0, sticky='w')
if read('menu', 'arch') == '1': self.menuarch_.set(1)
self.menumin_ = IntVar(master = self.master)
self.menumin = Checkbutton(m_text=lg('Minitel'), variable=self.menumin_, onvalue=1, offvalue=0)
self.menumin.grid(row=8, column=0, sticky='w')
if read('menu', 'minitel') == '1': self.menumin_.set(1)
)
self.menuupd_ = IntVar(master = self.master)
self.menuupd = Checkbutton(m_text=lg('Update'), variable=self.menuupd_, onvalue=1, offvalue=0)
self.menuupd.grid(row=9, column=0, sticky='w')
if read('menu', 'update') == '1': self.menuupd_.set(1)

self.menuex_ = IntVar(master = self.master)
self.menuex = Checkbutton(m_text=lg('Extension'), variable=self.menuex_, onvalue=1, offvalue=0)
self.menuex.grid(row=10, column=0, sticky='w')
if read('menu', 'extension') == '1': self.menuex_.set(1)
)
self.menuopt_ = IntVar(master = self.master)
self.menuopt = Checkbutton(m_text=lg('Options'), variable=self.menuopt_, onvalue=1, offvalue=0, state='disabled')
)
self.menuopt.grid(row=11, column=0, sticky='w')
if read('menu', 'opt') == '1': self.menuopt_.set(1)
self.menuhl_ = IntVar(master = self.master)
self.menuhl = Checkbutton(m_text=lg('Help'), variable=self.menuhl_, onvalue=1, offvalue=0)
self.menuhl.grid(row=12, column=0, sticky='w')
if read('menu', 'help') == '1': self.menuhl_.set(1)
self.menuvie_ = IntVar(master = self.master)
self.menuvie = Checkbutton(m_text=lg('View'), variable=self.menuvie_, onvalue=1, offvalue=0)
self.menuvie.grid(row=13, column=0, sticky='w')
if read('menu', 'view') == '1': self.menuvie_.set(1)

## Cadre s pour la sécurité

self.conn_ = IntVar(master = self.master)
self.conn = Checkbutton(s_text=lg('Connexion'), variable=self.conn_, onvalue=1, offvalue=0)
self.conn.grid(row=0, column=0, sticky='w')
if read('global', 'conn') == '1': self.conn_.set(1)
Label(s, text=lg('Username')).grid(row=1, column=0, sticky='e')
Label(s, text=lg('Password')).grid(row=2, column=0, sticky='e')
Label(s, text=lg('Key')).grid(row=3, column=0, sticky='e')
self.usn_ = StringVar(master = self.master)
self.usn = Entry(s, textvariable=self.usn_, width=20)
self.usn.grid(row=1, column=1, sticky='w')
self.usn.delete('0', END)

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self.usn.insert(END, read('security', 'username'))
self.pwd_ = StringVar(master = self.master)
self.pwd = Entry(s, textvariable=self.pwd_, show='*',
width=20)
self.pwd.grid(row=2, column=1, sticky='w')
self.pwd.delete('0', END)
self.pwd.insert(END, read('security', 'password'))
self.key_ = StringVar(master = self.master)
self.key = Entry(s, textvariable=self.key_, show='*',
width=5)
self.key.grid(row=3, column=1, sticky='w')
self.key.delete('0', END)
self.key.insert(END, read('crypt', 'key'))
self.err_ = IntVar(master = self.master)
self.err = Checkbutton(s, text=l g('Errors'), variable
=self.err_, onvalue=1, offvalue=0)
self.err.grid(row=4, column=0, sticky='w')
if read('global', 'errors') == '1':self.err_.set(1)
self.ac_ = IntVar(master = self.master)
self.ac = Checkbutton(s, text=l g('AskC'), variable=se
lf.ac_, onvalue=1, offvalue=0)
self.ac.grid(row=5, column=0, sticky='w')
if read('global', 'askclose') == '1':self.ac_.set(1)

## Cadre c pour les communication minitel

Label(c, text='Dev : ').grid(row=0, column=0, sticky=
'e')
Label(c, text=l g('Speed')).grid(row=1, column=0, stic
ky='e')
Label(c, text='Bytesize : ').grid(row=2, column=0, st
icky='e')
Label(c, text='Timeout : ').grid(row=3, column=0, sti
cky='e')

Label(c, text='/dev/ttyACM0', relief = 'flat', bd = 2
).grid(row=0, column=1, sticky='w')
Label(c, text='4800').grid(row=1, column=1, sticky='w'
')
Label(c, text='7').grid(row=2, column=1, sticky='w')
Label(c, text='2').grid(row=3, column=1, sticky='w')
self.min_al_ = IntVar(master = self.master)
self.min_al = Checkbutton(c, text=l g('alertem n'), va
riable=self.min_al_, onvalue=1, offvalue=0)
self.min_al.grid(row=4, column=1, sticky='w')
if read('minitel', 'alerte') == '1':self.min_al_.set(
1)

## Cadre t pour l'apparence du texte

Label(t, text=l g('Light_Background_Color')).grid(row=
0, column=0, sticky='e')
Label(t, text=l g('Light_Foreground_Color')).grid(row=
1, column=0, sticky='e')
Label(t, text=l g('Dark_Background_Color')).grid(row=2
, column=0, sticky='e')
Label(t, text=l g('Dark_Foreground_Color')).grid(row=3
, column=0, sticky='e')
Label(t, text=l g('Font')).grid(row=4, column=0, stick
y='e')
Label(t, text=l g('FS')).grid(row=5, column=0, sticky=
'e')
Label(t, text=l g('tab')).grid(row=6, column=0, sticky
='e')

self.bgl = Combobox(t, value=self.colors_name)
self.bgl.grid(row=0, column=1, sticky='w')

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vt = self.get_color_pos(read('text', 'bgl'))
if isinstance(vt, int):
    self.bgl.current(vt)
    val 0 = self.colors_name[vt]
else:
    self.colors_name.append(vt)
    self.bgl['value'] = self.colors_name
    self.bgl.current(END)
    val 0 = vt
    Button(t, text=l g('...'), command = lambda : self.ask
color('lbc', val 0)).grid(row=0, column = 2, sticky = 'w')

self.fgl = Combobox(t, value=self.colors_name)
self.fgl.grid(row=1, column=1, sticky='w')
vt = self.get_color_pos(read('text', 'fgl'))
if isinstance(vt, int):
    self.fgl.current(vt)
    val 1 = self.colors_name[vt]
else:
    self.colors_name.append(vt)
    self.fgl['value'] = self.colors_name
    self.fgl.current(END)
    val 1 = vt
    Button(t, text=l g('...'), command = lambda : self.ask
color('lfc', val 1)).grid(row=1, column = 2, sticky = 'w')

self.bgd = Combobox(t, value=self.colors_name)
self.bgd.grid(row=2, column=1, sticky='w')
vt = self.get_color_pos(read('text', 'bgd'))
if isinstance(vt, int):
    self.bgd.current(vt)
    val 2 = self.colors_name[vt]
else:
    self.colors_name.append(vt)
    self.bgd['value'] = self.colors_name
    self.bgd.current(END)
    val 2 = vt
    Button(t, text=l g('...'), command = lambda : self.ask
color('dbc', val 2)).grid(row=2, column = 2, sticky = 'w')

self.fgd = Combobox(t, value=self.colors_name)
self.fgd.grid(row=3, column=1, sticky='w')
vt = self.get_color_pos(read('text', 'fgd'))
if isinstance(vt, int):
    self.fgd.current(vt)
    val 3 = self.colors_name[vt]
else:
    self.colors_name.append(vt)
    self.fgd['value'] = self.colors_name
    self.fgd.current(END)
    val 3 = vt
    Button(t, text=l g('...'), command = lambda : self.ask
color('dfc', val 3)).grid(row=3, column = 2, sticky = 'w')

self.font = Combobox(t, value=self.font_lst)
self.font.grid(row=4, column=1, sticky='w')
self.font.current(self.get_font_pos(read('text', 'font'
t'))))
self.size = Combobox(t, value=[i for i in range(6, 73
)])
self.size.grid(row=5, column=1, sticky='w')
self.size.current(int(read('text', 'size')) - 6)

self.tabs = Spinbox(t, value = int(read('text', 'tab'
)), from_ = 2, to = 16)
self.tabs.grid(row = 6, column = 1, sticky = 'w')

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## Cadre l pour la personnalisation

0) Label(l, text = lg('langage')).grid(row = 0, column =
    self.lg = Combobox(l, value=self.lgs)
    self.lg.grid(row=0, column=1, sticky='w')
    self.lg.current(self.get_lg_pos(self.lg()))
    self.lg.bind('<<ComboboxSelected>>', self.info)

) Label(l, text = lg('navig')).grid(row = 1, column = 0
    self.bro = Combobox(l, value=self.browsers)
    self.bro.grid(row = 1, column = 1, sticky = 'w')
    ind = self.get_bro_pos(read('global', 'browser'))
    if isinstance(ind, int):
        self.bro.current(ind)
    else:
        self.bro.set(ind)

    self.bro.bind('<<ComboboxSelected>>', self.info)

## Cadre k pour l'enregistrement

ky='e') Label(k, text=lg('delay')).grid(row=0, column=0, stic
y='e') Label(k, text=lg('path')).grid(row=1, column=0, stick
]) self.spn = Combobox(k, value=[i for i in range(1, 60)
    self.spn.grid(row=0, column=1, sticky='w')
    self.spn.bind('<<ComboboxSelected>>', self.info)
    self.spn.current(int((int(read('auto_save', 'delay'))
/ 60) - 1))
    ToolTip(self.spn, text = lg('time_autosave'))
    mc = Frame(k)
    mc.grid(row=1, column=1)
    self.path_ = StringVar(master = self.master)
    self.path_ihm = Entry(mc, textvariable=self.path_, w
i d t h=18)
    self.path_ihm.grid(row=0, column=0, sticky='w')
    self.path_ihm.delete('0', END)
    self.path_ihm.insert(END, read('auto_save', 'path'))
    Button(mc, text='...', width=3, command=self.in_asp)
.grid(row=0, column=1)

## Cadre v pour l'affichage des barres

self.vbt_ = IntVar(master = self.master)
self.vbt_ = Checkbutton(v, text=lg('buttonbar'), varia
bl e=self.vbt_, onvalue=1, offvalue=0)
self.vbt.grid(row=0, column=0, sticky='w')
if read('view', 'bar_buttons') == '1': self.vbt_.set(1
)

self.vinf_ = IntVar(master = self.master)
self.vinf_ = Checkbutton(v, text=lg('info bar'), variab
l e=self.vinf_, onvalue=1, offvalue=0)
self.vinf.grid(row=1, column=0, sticky='w')
if read('view', 'bar_info') == '1': self.vinf_.set(1)

## Boutons en bas de la fenêtre

ca = Frame(self.tk)
ca.grid(row=1, column=0)

Button(ca, text=lg('Cancel'), command=self.cancel,
wi d t h = 15).grid(row=0, column=0, sticky='w')
Button(ca, text=lg('Apply'), command=self.apply,

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width = 23).grid(row=0, column=1)
Button(ca, text=lg('OK'), command=self.validate_ch
oi ce, width = 23).grid(row=0, column=2)

#####
## ZONE n° 2 : Les raccourcis claviers ! ##
#####

zak = Frame(self.note)
self.note.add(text = lg('racc'), child = zak)

self.tree = ttk.Treeview(zak, show = 'headings', colu
ms = (1, 2, 3), height = 24)
scroll = ttk.Scrollbar(zak, orient = 'vertical', comm
and = self.tree.yview)
self.tree.place(x = 0, y = 0)
self.tree.config(yscrollcommand = scroll.set)
self.tree.heading(1, text = lg('event'))
self.tree.heading(2, text = lg('key_t'))
self.tree.heading(3, text = lg('action'))
self.tree.column(1, width = 150)
self.tree.column(2, width = 150)
self.tree.column(3, width = 180)
scroll.place(x = self.tree.winfo_reqwidth(), y = 0, h
ei ght = self.tree.winfo_reqheight(), width = 20)
self.tree.bind('<Double-Button-1>', self.change_linkk
ey)

self.insert_keys()

#####
## ZONE n°3 : Le menu du clique droit ! ##
#####

tk = Frame(self.note)
self.note.add(text = lg('menuclkr'), child = tk)

self.lst_bt = Listbox(tk, height = 25, font = ('Couri
er', 14), width = 42)
ToolTip(tk, lg('PPKTA'))
scroll2 = ttk.Scrollbar(tk, orient = 'vertical', comm
and = self.lst_bt.yview)
self.lst_bt.place(x = 0, y = 0)
self.lst_bt.config(yscrollcommand = scroll2.set)
scroll2.place(x = self.lst_bt.winfo_reqwidth(), y = 0
, height = self.lst_bt.winfo_reqheight(), width = 20)
f = open(self.path_prog + '/menus.m', 'r')
r = f.read()
f.close()
mod = False
for line in r.split('\n'):
    if line == '':
        continue

    if line == '#clk':
        mod = True
        continue
    elif line[0] == '#':
        mod = False
        continue

    if mod:
        ln = line.split(',')
        if ln[4] == '1':
            self.lst_bt.insert('end', lg('Separateur'
))
            elif ln[2] == '1':

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        self.lst_bt.insert('end', lg('Puces'))
    elif ln[3] == '1':
        self.lst_bt.insert('end', lg('search'))
    else:
        self.lst_bt.insert('end', self.nom_bts[ln
[0]])

def append11(evt):
    a = TopLevel()
    a.transient(tk)
    a.title(lg('configurator'))
    a.resizable(False, False)
    Label(a, text = lg('add')).place(x = 5, y = 5)
    lst = []
    for k, v in self.nom_bts.items():
        lst.append(v)
    c = ttk.Combobox(a, values = lst)
    c.place(x = 5, y = 35)
    def append12():
        pass

    b = Button(a, text = lg('add'), command = append1
2, stat = 'disabled')
    b.place(x = 5, y = 65)
    ToolTip(b, lg('not imp'))
    a.geometry('150x95')

self.lst_bt.bind('+', append11)

#####
## ZONE n°4 : Le menu de la barre des boutons ! ##
#####

tk2 = Frame(self.note)
self.note.add(text = lg('menubts'), child = tk2)

self.lst_bt2 = Listbox(tk2, height = 25, font = ('Cou
rier', 14), width = 42)
ToolTip(tk2, lg('PPKTA'))
scroll3 = ttk.Scrollbar(tk2, orient = 'vertical', com
mand = self.lst_bt2.yview)
self.lst_bt2.place(x = 0, y = 0)
self.lst_bt2.config(yscrollcommand = scroll3.set)
scroll3.place(x = self.lst_bt2.winfo_reqwidth(), y =
0, height = self.lst_bt2.winfo_reqheight(), width = 20)
f = open(self.path_prog + '/menus.m', 'r')
r = f.read()
f.close()
mod = False
for line in r.split('\n'):
    if line == '':
        continue

    if line == '#bts':
        mod = True
        continue
    elif line[0] == '#':
        mod = False
        continue

    if mod:
        ln = line.split(',')
        if ln[2] == '1':
            self.lst_bt2.insert('end', lg('Separateur
'))
        else:
            self.lst_bt2.insert('end', self.nom_bts[l

```

```
n[1]])
```

```
def append21(evt):
    a = Toplevel()
    a.transient(tk2)
    a.title(lg('configurator'))
    a.resizable(False, False)
    Label(a, text = lg('add')).place(x = 5, y = 5)
    lst = []
    for k, v in self.nom_bts.items():
        lst.append(v)
    c = ttk.Combobox(a, values = lst)
    c.place(x = 5, y = 35)
    def append():
        pass

    b = Button(a, text = lg('add'), command = append2
2, stat = 'disabled')
    b.place(x = 5, y = 65)
    ToolTip(b, lg('not imp'))
    a.geometry('150x95')

    self.lst_bt2.bind('+', append21)

    def change_linkkey(self, evt):
        self.selected = self.tree.item(self.tree.selection())
['values']
        self.root = Toplevel(self.tk)
        self.root.transient(self.tk)
        self.root.title(lg('configurator'))
        Label(self.root, text = self.selected[2], font = ('Consolas', 12), wraplength = 175).place(x = 10, y = 10)
        Label(self.root, text = lg('newrac'), font = ('Consolas', 13, 'bold')).place(x = 10, y = 50)
        e = StringVar(master = self.master)
        self.e = Entry(self.root, textvariable = e, font = ('Consolas', 13, 'italic'), width = 17)
        self.e.place(x = 10, y = 90)
        self.e.insert('end', self.selected[1])
        self.list_keys = self.selected[1].split(' + ')
        self.fin_key = []
        shift = False
        for i in self.list_keys:
            if i == 'Ctrl':
                self.fin_key.append('<Control')
            elif i == 'Alt':
                self.fin_key.append('Alt')
            elif i == 'Shift':
                shift = True
            else:
                self.fin_key.append(i.lower() if not shift else i.upper())
        self.e.bind('<Key>', self.keypress_link)

        Button(self.root, command = self.validate_linkkey, text = lg('OK')).place(x = 10, y = 130)
        Button(self.root, command = self.root.destroy, text = lg('cancel')).place(x = 110, y = 130)
        Button(self.root, command = lambda : self.validate_linkkey(True), text = lg('retirer')).place(x = 10, y = 160)
        self.root.geometry('200x200')

    def keypress_link(self, evt):
        if len(evt.keysym) == 1:
            if 96 < ord(evt.keysym) < 96 + 26 or 64 < ord(evt.keysym) < 64 + 26:
                self.list_keys.append(evt.keysym.upper())
```

```

        self.fin_key.append(evt.keysym + '>')
    elif evt.keysym in ('Control_L', 'Control_R'):
        self.list_keys = ['Ctrl']
        self.fin_key = ['<Control']
    elif evt.keysym in ('Shift_L', 'Shift_R') and not 'Shift' in self.list_keys:
        self.list_keys.append('Shift')
    elif evt.keysym in ('Alt_L', 'Alt_R') and not 'Alt' in self.list_keys:
        self.list_keys.append('Alt')
        self.fin_key.append('Alt')
    elif evt.keysym == 'ISO_Level3_Shift':
        self.list_keys = ['Ctrl']
        self.fin_key = ['<Control']
        self.list_keys.append('Alt')
        self.fin_key.append('Alt')
    elif evt.keysym[0] == 'F':
        self.list_keys = [evt.keysym]
        self.fin_key = ['<' + evt.keysym + '>']

    self.e.delete('0', 'end')
    self.e.insert('end', ' ' + '.join(self.list_keys))

    def validate_linkkey(self, delete = False):
        f = open(self.path_prog + '/keys.k', 'r', encoding =
get_encode())
        r = f.read()
        f.close()

        res = ''
        for line in r.split('\n'):
            if not line:
                continue

            name, event = line.split(' = ')
            if name == self.selected[0]:
                if delete:
                    line = name + ' = '
                else:
                    line = name + ' = ' + '-' .join(self.fin_key)
            else:
                line = name + ' = ' + event
            res += line + '\n'

        f = open('keys.k', 'w', encoding = get_encode())
        f.write(res)
        f.close()
        self.root.destroy()
        self.insert_keys()

    def clear_tree(self):
        for x in self.tree.get_children():
            self.tree.delete(x)

    def insert_keys(self):
        self.clear_tree()
        try:
            self.__keyb__()
        except Exception:
            return

        f = open('keys.k', 'r', encoding = get_encode())
        r = f.read()
        f.close()
        for line in r.split('\n'):
            if line == '':

```

```

        continue

        name = line.split(' = ')[0]
        event = self.get_accelerator(name)
        self.tree.insert('', 'end', values = (name, event
, ''))

def askcolor(self, type, oldcolor = None):
    title = ''
    if type == 'lbc':
        title = lg('Light_Background_Color')
    elif type == 'lfc':
        title = lg('Light_Foreground_Color')
    elif type == 'dbc':
        title = lg('Dark_Background_Color')
    elif type == 'dfc':
        title = lg('Dark_Foreground_Color')

    color = askcolor(color = oldcolor, title = title)
    if color[0] != None:
        self.colors_name.append(color[1])
        if type == 'lbc':
            self.bgl['value'] = self.colors_name
            self.bgl.current(END)
        elif type == 'lfc':
            self.fgl['value'] = self.colors_name
            self.fgl.current(END)
        elif type == 'dbc':
            self.bgd['value'] = self.colors_name
            self.bgd.current(END)
        elif type == 'dfc':
            self.fgd['value'] = self.colors_name
            self.fgd.current(END)

    self.info(None)

def in_asp(self):
    n = asksaveasfilename(title=lg('open') + ' ' + lg('bu
'), initialdir='.', filetypes=[(lg('bu'), '*.bu')])
    if n:
        self.path_ihm.delete('0', END)
        self.path_ihm.insert(END, n)

def get_color_pos(self, data):
    try:
        return self.colors.index(data)
    except:
        return data

def get_font_pos(self, data):
    try:
        return self.font_lst.index(data)
    except:
        pass

def get_bro_pos(self, data):
    try:
        return self.browsers.index(data)
    except:
        return data

def get_codes_pos(self, data):
    try:
        return self.codages.index(data)
    except:
        pass

```

```

def get_lang_pos(self, value):
    try:
        return self.languages.index(value)
    except:
        pass

def get_lg_pos(self, data):
    try:
        return self.lgs.index(data)
    except:
        pass

def validate_choice(self):
    p = Progress(self.root, title = lg('Configurator'), m
aximum = 40, decimals = 0, oncolor = 'blue')
    self.tree.unbind('<Double-Button-1>')
    log = open(self.path_prog + '/log.txt', 'a')
    try:
        p.step('mode_dark')
        write('global', 'mode_dark', self.mode_dark_.get(
))
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('line_number')
        write('global', 'line_number', self.line_number_.
get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('encrypt')
        write('global', 'encrypt', self.enc_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('puces')
        write('text', 'puces', self.puc_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('language')
        write('global', 'lang', self.lang.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('notifications')
        write('global', 'notifs', self.notifs_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('file')
        write('menu', 'file', self.menufile_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('edit')
        write('menu', 'edit', self.menuedit_.get())
    except Exception as e:

```

```

        log.write(str(e) + '\n')

    try:
        p.step('format')
        write('menu', 'format', self.menufor_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('run')
        write('menu', 'run', self.menurun_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('crypt')
        write('menu', 'crypt', self.menucrypt_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('export')
        write('menu', 'export', self.menuexp_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('arch')
        write('menu', 'arch', self.menuarch_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('minitel')
        write('menu', 'minitel', self.menumin_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('opt')
        write('menu', 'opt', self.menuopty_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('help')
        write('menu', 'help', self.menuhlp_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('update')
        write('menu', 'update', self.menupd_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('extension')
        write('menu', 'extension', self.menuex_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('style')
        write('menu', 'style', self.menustyle_.get())
    except Exception as e:
        log.write(str(e) + '\n')

```

```

try:
    p.step('view')
    write('menu', 'view', self.menuvie_.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('conn')
    write('global', 'conn', self.conn_.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('username')
    write('security', 'username', self.usn_.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('password')
    write('security', 'password', self.pwd_.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('errors')
    write('global', 'errors', self.err_.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('askclose')
    write('global', 'askclose', self.ac_.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('browser')
    write('global', 'browser', self.bro.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('bgd')
    write('text', 'bgd', self.bgd.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('fgd')
    write('text', 'fgd', self.fgd.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('bgl')
    write('text', 'bgl', self.bgl.get())
except Exception as e:
    log.write(str(e) + '\n')

try:
    p.step('fgl')
    write('text', 'fgl', self.fgl.get())
except Exception as e:

```

```

        log.write(str(e) + '\n')

    try:
        p.step('font')
        write('text', 'font', self.font.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('tabs')
        write('text', 'tab', str(self.tabs.get()))
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('check updates')
        write('global', 'look_update', str(self.update_.g
et()))
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('Info bar')
        write('view', 'bar_info', self.vinf_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('Button bar')
        write('view', 'bar_buttons', self.vbt_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('size', 'CANCELED')
        write('text', 'size', self.size.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('codage', 'CANCELED')
        #write('crypt', 'code', self.coda.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        ## Chemin minitel ! (minitel / [dev, speed = 4800
, bytsize = 7, timeout = 2]
        p.step('minitel\ 's alertes')
        write('minitel', 'alerte', self.min_al_.get())
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('delay')
        write('auto_save', 'delay', str(int(self.spn.get(
)) * 60))
    except Exception as e:
        log.write(str(e) + '\n')

    try:
        p.step('path')
        write('auto_save', 'path', self.pat_h_.get())

```



```

except Exception as e:
    log.write(str(e) + '\n')

log.close()

p.step(' Saving choosed language' )
set_nlg(self.lg.get())

print(' Restarting... ')
self.cancel()
self.master.destroy()
self.__start__()

def apply(self):
    self.configuring = True
    self.validate_choice()

if __name__ == '__main__':
    from __init__ import *

```