custom_print Module

Screen Functions

clean() It cleans the terminal and returns the cursor to home.

clear() It clears the terminal and returns the cursor to home.

erase() It erases the terminal and leaves the cursor in the current position.

dimensions() It returns the dimensions of the terminal, cols and rows.

resize(rows=25, cols=80) It resizes the terminal size.

Example: import custom_print as cp

cp.clean()

r, c = cp.dimensions()
print(f"rows: {r}, Cols: {c}")

cp.resize(25, 120)

Internal Functions

```
bg_ansi_colors(bold=False, fg=-1, n_line=0)
```

This function displays all background colors available with ansi code. The following options are for a better visualization.

- 1.- The bold option for the font (True / False)
- 2.- The fg option to visualize the background colors with a specific foreground color.
- 3.- The n_line option to insert lines between the colors.

```
fg_ansi_colors(bold=False, bg=-1, n_line=0)
```

This function displays all foreground colors available with ansi code. The following options are for a better visualization.

- 1.- The bold option for the font (True / False)
- 2.- The bg option to visualize the background colors with a specific foreground color.
- 3.- The n_line option to insert lines between the colors.

 $ins_chr(n=1, unicode=""")$ \rightarrow This function inserts n times the unicode provided, by default it is set to space.

ins newline(n=1) \rightarrow This function inserts n new lines.

terminal bell() → This function makes the sound of the terminal bell.

reset_font() → This function resets the font attributes when we use the set_font() function.

set_font(bold=False, bg=-1, fg=-1, italic=False, underline=False, strike=False, blinking=False, dim=False, hidden=False, inverse=False) →

This function passes many attributes for the font. If passing all these arguments is a little annoying to you, you can use the Font Style Class for simplicity. The best way to use this function is to pass only the first 3 parameters like the example below.

Colors range goes from -1 to 256. To set the default color from the system use -1 or 256.

```
Example: import custom_print as cp print(cp.set_font(1,11,21) + " Python is " + cp.set_font(0,1) + " Wonderful."+cp.reset_font()) print(f"{cp.set_font(bold=0, bg=22, fg=0)} Python {cp.set_font(1,90,7)} Language.{cp.reset_font()}")
```

Note: These functions are being used by the FancyFormat Class. Feel free to ignore them if not useful to you.

Help Classes

Move → This class is used with the Cursor class and it contains 4 options.

Move.RIGHT Move.LEFT Move.UP Move.DOWN

Note: These options can be replaced for the original values as displays below:

```
Move.RIGHT = "right" = "r" Move.LEFT = "left" = "l"

Move.UP = "up" = "u" Move.DOWN = "down" = "d"
```

Align → This class is used with the FancyFormat class and FancyMessage class. It contains 4 options.

Align.RIGHT Align.LEFT Align.CENTER Align.JUSTIFY

Note: These options can be replaced for the original values as displays below:

Layout → This class is used with FancyFormat class and Pen class. It contains 2 options.

```
Layout.HORIZONTAL = "horizontal" = "h" Layout.VERTICAL = "vertical" = "v"
```

Length_bg → This class is used with FancyMessage class and contains 2 options.

ALL ROW =
$$1$$
 ONLY WORD = 2

Unicode → This class is to insert some unicode characters.

Triangle
BLACK UP POINTING TRIANGLE
WHITE UP POINTING TRIANGLE
BLACK_RIGHT_POINT_TRIANGLE
WHITE_RIGHT_POINT_TRIANGLE
BLACK_DOWN_POINTING_TRIANGLE
WHITE_DOWN_POINTING_TRIANGLE
BLACK_LEFT_POINTING_TRIANGLE
WHITE_LEFT_POINTING_TRIANGLE

#-----BLACK_DIAMOND WHITE_DIAMOND FACE

BLACK_CIRCLE WHITE_CIRCLE Reference → https://www.unicode.org/charts/nameslist/

Line_Style → This class is used with FancyFormat class and Pen class. There are some options available.

CUSTOMIZED SINGLE SPACE_COL_COLOR SINGLE_BOLD DASH NO_SPACE_COL_COLOR

SINGLE_HEAVY DOUBLE SQR_BRACKETS NONE

Note: SPACE_COL_COLOR and NO_SPACE_COL_COLOR are not included in Pen class.

Note: These options can be replaced for the original value as displays below:

```
CUSTOMIZED
                   "customized"
                                    SINGLE → "single"
                                                       SPACE COL COLOR
                                                                              → "space col color"
SINGLE BOLD
                   "single bold"
                                    DASH
                                            → "dash"
                                                        NO SPACE COL COLOR → "no space col color"
SINGLE_HEAVY
                 → "single_heavy"
                                    DOUBLE →
                                               "double"
SQ_BRACKETS
                 → "sq_brackets"
                                    NONE
                                               "none"
```

Variables to visualize the effect on options SPACE_COL_COLOR and NO_SPACE_COL_COLOR with FancyFormat.

```
bg_horizontal_line = 21bg_header = 90bg_data = 231bg_vertical_line = 21fg_header = 231fg_data = 0bg_corner_chr = 21bold_header = Truebold_data = Truebg_inner_corner_chr = 21bg_corner_under_line_header = 21middle_horizontal_line_on = Truebg_under_line_header = 21bg_vertical_header_line_chr = 21horizontal_line_under_header_on = True
```

Example: import custom_print as cp

tbl1 = cp.FancyFormat()

tbl1.print_fancy_format(data=lst2, style=cp.Line_Style.SPACE_COL_COLOR) tbl1.print_fancy_format(data=lst3, style=cp.Line_Style.NO_SPACE_COL_COLOR)

Cursor Class

This class contains 4 methods. The difference between jump and move is that jump executes the code while move returns the code.

```
jumpTo(qty=0, direction=cp.Move.DOWN) \rightarrow This method jumps rows or columns for the cursor in the terminal. \rightarrow This method jumps the cursor to specific coordinates in the terminal. \rightarrow This method moves rows or columns for the cursor in the terminal. \rightarrow This method moves rows or columns for the cursor in the terminal. \rightarrow This method moves the cursor to specific coordinates in the terminal.
```

```
Example: import custom_print as cp
```

crs = cp.Cursor()
crs.jumpTo(4, "D")

crs.jumpTo(qty=20, direction=cp.Move.RIGHT) $\leftarrow . \rightarrow$ crs.jumpTo(qty=20, direction="right") print("Hello There...!")

print(f"{crs.moveTo(qty=20, direction=cp.Move.RIGHT)}Hello There...!")
print(f"{crs.movexy(0,10)}Col 10, row 1")

FontStyle Class

This class contains 4 methods and the attributes and their default values are displays below.

```
= "j"
                                                                                               force align
                                                                                                                 = False
bold
       = False
                     bg
                               = -1
                                                      = -1
                                                                      align
                                              fg
dim
       = False
                     underline = False
                                             blinking = False
                                                                      indent
                                                                                   = 0
                                                                                               bg top lines
                                                                                                                 = 0
hidden = False
                     strike
                               = False
                                             inverse
                                                       = False
                                                                      italic
                                                                                   = False
                                                                                               bg bottom lines = 0
```

indent → this defines how far we want to start to print the message from the left, it works with style_on and print_style. bg_top_lines and bg_bottom_lines → these are lines above and below the message with the bg specified.

style_on() and style_off() → These methods are used if we will be continuing using the style in many rows.

Example:

```
import custom_print as cp
fs = cp.FontStyle()
fs.bg = 21
fs.fg = 231
print(f"{fs.style_on()}Font Style Line 1 ")
print(f" Font Style Line 2 ")
print(f" Font Style Line 3 {fs.style_off()}")
fs.reset_style()
print(f"{fs.style_on()} Default Style {fs.style_off()}")
```

Font Style Line 1
Font Style Line 2
Font Style Line 3
Default Style

```
# reset_style() → This method will reset the style to the default values.

fs.reset_style()

fs.print_style(" My Font Style ")
```

 $print_style(msg) \rightarrow This method will print the style with the defined attributes.$

Example:

```
import custom_print as cp
fs = cp.FontStyle()
msg = f'''
Full Name Author Here ...!
Align.OPTION
force_align = False
Python3.12
fs.fg = 231
fs.bg = 23
fs.bold = True
fs.force align = False
fs.align = cp.Align.LEFT
fs.print_style(msg)
fs.align = cp.Align.CENTER
fs.print_style(msg)
fs.align = cp.Align.RIGHT
fs.print_style(msg)
fs.align = cp.Align.JUSTIFY
fs.indent = 7
fs.print_style(msg)
cp.ins_newline(2)
fs.align = "none"
fs.print_style(msg)
```

```
Full Name Author Here...
            Align.OPTION
      force_align = False
               Python3.12
                                  Full Name Author Here...!
                                  Align.OPTION
                                  force_align = False
                                  Python3.12
                                                                     Full Name Author Here...
                                                                     Align.OPTION
                                                                     force_align = False
                                                                     Python3.12
      Full Name Author Here...!
                    Align.OPTION
             force_align = False
                      Python3.12
Full Name Author Here...! Align.OPTION force_align = False Python3.12
```

Example: import custom_print as cp fs = cp.FontStyle()

msg = f"'
Full Name Author Here...!
Align.OPTION
force_align = True
Python3.12
"'

fs.fg = 231 fs.bg = 23 fs.bold = True fs.force_align = True

cp.ins_newline(2)

fs.align = cp.Align.LEFT
fs.print_style(msg)

fs.align = cp.Align.CENTER
fs.print_style(msg)

fs.align = cp.Align.RIGHT fs.print_style(msg)

fs.align = cp.Align.JUSTIFY fs.indent = 12 fs.print_style(msg)

cp.ins_newline(2)

fs.align = "none"
fs.print_style(msg)

Full Name Author Here...!
Align.OPTION
force_align = True
Python3.12

Full Name Author Here...!
Align.OPTION
force_align = True
Python3.12

Full Name Author Here...!
Align.OPTION
force_align = True
Python3.12

Full Name Author Here...!
Align.OPTION
force_align = True
Python3.12

Full Name Author Here...!
Align.OPTION
force_align = True
Python3.12

paragraph = ""
This is the Module Docstrings
Trailing WhiteSpace refers to any whitespace characters at the end of a line of code or string.
missing-final-newline refers to set
the last empty line at the end of the code
pylint practis.py
""

Example:

import custom_print as cp
fs = cp.FontStyle()
fs.fg = 231
fs.bg = 90

cp.ins_newline(2)

fs.align = cp.Align.CENTER fs.force_align = False fs.bg_top_lines = 1 fs.bg_bottom_lines = 1 fs.print_style(paragraph)

cp.ins_newline(2)

fs.align = cp.Align.CENTER fs.force_align = True fs.bg_top_lines = 2 fst.bg_bottom_lines = 2 fs.print_style(paragraph) This is the Module Docstrings
Trailing WhiteSpace refers to any whitespace characters
at the end of a line of code or string.
missing-final-newline refers to set
the last empty line at the end of the code
pylint practis.py

This is the Module Docstrings
Trailing WhiteSpace refers to any whitespace characters
at the end of a line of code or string.
missing-final-newline refers to set
the last empty line at the end of the code
pylint practis.py

FancyMessage Class

```
This class contains 3 methods:
```

```
print_fancy_message(msg_body="") → This method works with Body Default Values, Title and Footnote Attributes.
```

print_fancy_note(msg_body="") → This method works with Body Default Values, and Note Default Attributes.

get_message_attributes(msg_body="", print_attributes=True) → This method returns the attributes of the message in 2 variables. A list with all the attributes of the message and another list with the words of the message. It has the option to print all the attributes at the same time.

```
# Body Default Values
#-----
bg_body = 4
                    strike_body = False
                                            msg_body = "Body Msg
                                                                      help_lines = False
fg\_body = 231
                    hidden_body = False
                                            right_indent = 2
                                                                      length = Length_bg.ALL_ROW
bold body = False
                    inverse_body = False
                                            left indent = 2
dim body = False
                     blinking body = False
                                            top lines = 1
italic_body= False
                    underline_body = False
                                            bottom_lines = 1
```

These two options work when length is Length bg.ONLY WORD. They don't do anything when length is Length bg.All ROW.

```
adj_bg_lines_to_right_indent = False
adj_bg_msg_to_space_available = False
```

Note: All the above variables are being used by both methods, print_fancy_message and print_fancy_note.

```
#------
# Note Default Values
#-----msg_note = " Note: "
- 231
#-----
                    align_note = Align.JUSTIFY
                                             blinking_note
                                                         = False
                    strike_note = False
                                             underline_note = False
                                             position note
fg note = 0
                    italic note = False
                                                         = 1
bold_note = False
                   inverse_note = False
                                             right_space_note = 2
                                             left_space_note = 2
dim_note = False
                   hidden_note = False
# Title Attributes
#-----
msg title = ""
                    align_title
                                             blinking_title
                             = Align.LEFT
                                                         = False
bg_title = 4
                    strike title = False
                                             underline title = False
                    italic_title
fg_title = 231
                             = False
                                             title_indent
                                                         = 2
bold_title = False
                    inverse_title = False
                                             lines_title_body = 1
dim_title = False
                   hidden_title = False
# Footnote Attributes
#------
                                               blinking_footnote = False
msg_footnote = ""
                    align_footnote = Align.RIGHT
bg footnote = 4
                    strike_footnote = False
                                               underline_footnote = False
fg_footnote = 231
                    italic_footnote = False
                                               footnote indent
bold_footnote = False
                    inverse_footnote = False
                                               lines_body_footnote = 1
dim_footnote = False
                    hidden_footnote = False
```

```
Example: import custom_print as cp
msg = cp.FancyFormat()

paragraph = "Guido van Rossum, a Dutch programmer, created Python in the late 1980s
as a hobby project. He started working on it in December 1989 at Cent-
rum Wiskunde & Informatica (CWI) in the Netherlands.

Python was first released on February 20, 1991. Python was named after
the 1970s BBC comedy sketch series Monty Python's Flying Circus.""

msg.msg_title = "TITLE"
```

msg.print_fancy_message(paragraph) # Method 1

cp.ins_newline(2)
msg.msg_note = "Python"

msg.msg_footnote = "FOOTNOTE"

msg.position note = 4

msg.print_fancy_note(paragraph) # Method 2

```
Diagram Description
                                   top lines
                                               TITLE
                            lines_title_body
- left indent
                                                                                      right indent
                                               msg_body
              Guido van Rossum, a Dutch programmer, created Python in the late 1980s
              as a hobby project. He started working on it in December 1989 at Cent-
              rum Wiskunde & Informatica (CWI) in the Netherlands.
              Python was first released on February 20, 1991. Python was named after
              the 1970s BBC comedy sketch series Monty Python's Flying Circus.
                                                        lines_body_footnote
                                             FOOTNOTE
                                                        bottom lines
              Body Lines:6 Space Available:70 N.Cols: 100 N.Lines:20
                     top lines --▶
 A +msg_note+ B
                                                - msg_body ·
                                                                                      right indent
                Guido van Rossum, a Dutch programmer, created Python in the late 1980s
                as a hobby project. He started working on it in December 1989 at Cent-
                rum Wiskunde & Informatica (CWI) in the Netherlands.
    Python
                Python was first released on February 20, 1991. Python was named after
                the 1970s BBC comedy sketch series Monty Python's Flying Circus.
                  bottom_lines --▶
                                       A --▶ left_space_note, B --▶ right_space_note
              Body_Lines:5 Space_Available:73 N.Cols: 100 N.Lines:11
```

Get Message Attributes

#-----import custom, print as co

import custom_print as cp paragraph3 = ""

I should probably collect a list of the best romantic poems ever written, and maybe I will. This is not that. I mostly talk about writing books, but I noticed most of the other big writing sites actually get most of the their

traffic from this keyword, because everybody is interested in romantic poetry! When you want to tell her how you feel, but do not have the words to express all that emotion...!

```
get_message_attributes(message, True)
     Attributes
                                          Values
     Screen Size_xy
                                          [100, 90]
     Left Indent
     Right Indent
     Space Available
                                          96
      Longest Line
                                          47
     Smallest Line
     List Line Lengths
                                          [47, 46, 45, 42, 44, 0, 44, 42, 41, 46]
                                          [49, 50, 51, 54, 52, 96, 52, 54, 55, 50]
     List Line Spaces
     Words Into a List
                                           'words'
     Total Number of Lines
      Total Number of Words
     Total Number of Characters
                                          397
```

Method 3

fmsg = cp.FancyMessage()

attributes, words = **fmsg**.get_message_attributes(msg_body=paragraph3, print_attributes=True)

words is a list that contains all the word of the paragraph.

FancyFormat Class

This class contains two methods:

 $print_fancy_format(data, style) \rightarrow Two arguments, the data to print and the line style.$

reset_fancy_format() → It resets all the attributes to their default values.

Examples: import custom_print as cp tbl = cp.FancyFormat()

Case 1: Passing any type of variable.

tbl.print_fancy_format("Hello World...!")

Output: +-----+ | Hello World...! | +-----+

Case 3: Passing single item in a list.
my_list = ["Hello World...!"]
tbl.print_fancy_format(my_list)

Output: +-----+ | Hello World...! | +-----+

Case 5: Passing a list.
my_list = [1,2,3,4]
tbl.print_fancy_format(my_list)

Output: +----*----*----+ | 1 | 2 | 3 | 4 | +----*----*----+ Case 2: Passing an empty list.
tbl.print_fancy_format([])

Output: +-----+ | none | +-----+

Case 4: Passing single item in a row to a list.
my_list = [["hello there!"]]
tbl.print_fancy_format(my_list)

Output: +-----+ | hello there! | +------+

my_list = ["Terminology","hello there!", "I am Miguelito"]
tbl.print_fancy_format(my_list)

+-----+ | Terminology | hello there! | I am Migue | +------+

```
Case 6: Passing a list in a single row.
my_list = [[1,2,3,4]]
                                                    my_list = [["Terminology","hello there!", "I am Hello"]]
tbl.print_fancy_format(my_list)
                                                    tbl.print_fancy_format(my_list)
Output: +----*----*
                                                     +-----*-----+
        | 1 | 2 | 3 | 4 |
                                                     | Terminology | hello there! | I am Hello |
        +----*----+
                                                     +-----+
Case 7: Passing a list with a some combination of rows and cols.
my list = [[5,"hello"],6,50,[45]]
                                                    my_list1 = [10,[50],[250],["C"],["H"],10,20]
tbl.print_fancy_format(my_list)
                                                    tbl.print_fancy_format(my_list)
Output: +-----+
                                                    +----*----*-----+
        | [5, 'hello'] | 6 | 50 | [45] |
                                                     | 10 | [50] | [250] | ['C'] | ['H'] | 10 | 20 |
        +-----*----*----+
Case 8: Passing a list with rows and one col.
my_list = [[10],[20],[30],[40]]
tbl.print fancy format(my list)
Output: +-----+
        | R1C1 |
                               | 10 |
                               | 20 |
        | R1C2 |
        | R1C3 |
                               | 30 |
                               | 40 |
        | R1C4 |
Case 9:
Passing a list with a some combination of rows and cols.
my list = [["R1C1", "R1C2", "R1C3"],
                                                my list = [["R1C1","R1C2","R1C3"],
         ["R2C1","R2C2","R2C3"],
                                                         ["R2C1","R2C2","R2C3"],
         ["R3C1","R3C2","R3C3"]]
                                                         ["R3C1","R3C2","R3C3"]]
tbl.print_fancy_format(my_list1)
                                                 tbl.horizontal_line_under_header_on= True
                                                 tbl.middle horizontal line on
                                                                             = True
                                                 tbl.print_fancy_format(my_list1)
Output: +-----+
                                                 +----+
        | R1C1 | R1C2 | R1C3 | R1C4 |
                                                 | R1C1 | R1C2 | R1C3 | R1C4 |
        | R2C1 | R2C2 | R2C3 | R2C4 |
                                                 +----+
                                                 | R2C1 | R2C2 | R2C3 | R2C4 |
         R3C1 | R3C2 | R3C3 | R3C4 |
        | R4C1 | R4C2 | R4C3 | R4C4 |
                                                 +----+
```

Note: Although the main idea is to use list type, print_fancy_format(tbl) accepts any type of variable. Refer to Demo 3 figure.

| R3C1 | R3C2 | R3C3 | R3C4 | | +------+ | R4C1 | R4C2 | R4C3 | R4C4 | | +------+

Attributes in FancyFormat Class:

```
# General Use Section
adj → adjust
adj_top_margin = 0
                                                                            set fill chr = "----"
                         adj_bottom_margin = 0
                                                      adj_indent = 2
                                                                                                     set layout = Layout.HORIZONTAL
                                                                           updata_list = False
adj_top_space = 0
                         adj_bottom_space = 0
                                                      adj_space = 2
                     Lines to be added between the terminal ($) and the title. It only accepts int values.
adi top margin
adj_top_space
                     Lines to be added between title and top list. It only accepts int values.
adj bottom margin Lines to be added between the end of the list or footnote to the terminal ($).
adj_bottom_space
                     Lines to be added between the bottom of the list and the footnote. It only accepts int values.
adi indent
                     Space from the left terminal to the first character in the list to be printed. It only accepts int values.
adj_space
                     Space from the left of the box to the first character in the list to be printed. It only accepts int values.
                     When a list is not complete in the data, it will be filled out with some characters. fill_chr will be converted to string.
set fill chr
                     Notice that every single element in the list being passed will be converted to string in a temporary internal list.
update list
                     If you want to save this conversion to your original list then set to True. It only works with the list type of variable.
set_layout
                     This option only works with set, frozenset or range type of variables.
                     adj_top_space won't work if the title is not set up. Also adj_bottom_space won't work if the footnote is not set up.
Note:
                      Use adj top margin or adj bottom margin or ins newline(n), or print("\n") if you need more space.
# Title Section
#-----
                            align_title = "justify" hidden_title = False inverse_title = False strike_title = False dim title = False underline_title = False
msg_title = ""
bold title = False
bg_{title} = -1
                            dim title = False
                                                             underline title = False
fg title = -1
msg_title The title name for the list. It only accepts string values, by defaults is empty.
bold_title It only accepts two int values 0 and 1, by defaults is set to 0.
bg_title and fg_title accepts int values from -1 to 256. Default value from the system are -1 and 256.
align_title It accepts 4 values, left (l), justify (j), center (c), and right (r).
# Footnote Section
#-----
msg_footnote = ""
bold_footnote = False
bg_footnote = -1
fg_footnote = -1
msg_footnote = ""
                                align_footnote = "justify"
                                                                        hidden_footnote
                                                                                              = False
                                italic_footnote = False
                                                                        inverse_footnote
                                                                                              = False
                                strike_footnote = False
                                                                        blinking_footnote = False
                                dim_footnote
                                                  = False
                                                                        underline_footnote = False
msg_footnote The title name for the list. It only accepts string values, by default is empty.
```

bold_ footnote It only accepts two int values 0 and 1, by defaults is set to 0.

bg_ footnote and fg_footnote accepts int values from -1 to 256. Default values from the system are -1 and 256.

align_footnote It accepts 4 values, left (l), justify (j), center (c), and right (r).

```
# Data Section
                          hidden_data = False
italic_data = False
align data = "justify"
                                                                     inverse data = False
bold_data = False
                                                                     blinking_data = False
bg data = -1
                                 strike_data = False
                                                                     underline_data = False
fg_data = -1
                                 dim_data
                                               = False
                                                                     bg_all_cell_data = True
bg_all_cell_data The bg color will affect the entire cell or just the data.
align_data It accepts 4 values, left (l), justify (j), center (c), and right (r).
bg data and fg data accepts int values from -1 to 256. Default values from the system are -1 and 256.
# Horizontal Line Section
#-----
top_horizontal_line_chr = "-" bottom_horizontal_line_chr = "-" middle_horizontal_line_chr = "-" top_horizontal_line_on = True bold_horizontal_line = False bg_horizontal_line = -1 fg_horizontal_line = -1
                                                                                    middle_horizontal_line_on = False
middle_horizontal_line_on These are the lines below the data. Check Case 9: for reference.
bg_horizontal_line and fg_horizontal_line accepts int values from -1 to 256. Default values from the system are -1 and 256.
For more reference check Figure 1.
# Vertical Line Section
bold_vertical_line = False left_vertical_line_chr = "|" bg_vertical_line = -1 middle_vertical_line_chr = "|" fg_vertical_line = -1 right_vertical_line_chr = "|"
middle_vertical_line_chr → A string type. The char used to make the horizontal line. For more reference check Figure 2.
right_vertical_line_chr → A string type. Refer to Figure 1.
left_vertical_line_chr → A string type. Refer to Figure 1.
bg_vertical_line and fg_vertical_line Accepts int values from -1 to 256. Default values from the system are -1 and 256.
# External Corner Section
#-----
top_left_corner_chr = "+" bottom_right_corner_chr = "+" bottom_left_corner_chr = "+"
                                                                                    bold corner chr = False
top_right_corner_chr = "+"
                                       bottom_left_corner_chr = "+"
                                                                                    bg_corner_chr = -1
                                                                                    fg_corner_chr = -1
                             A string type. For reference check Figure 1. By default set to "+"
top_left_corner_chr
                             A string type. For reference check Figure 1. By default set to "+"
top_right_corner_chr
bottom_right_corner_chr
                             A string type. For reference check Figure 1. By default set to "+"
bottom_left_corner_chr
                             A string type. For reference check Figure 1. By default set to "+"
```

bg_corner_chr and fg_corner_chr Accepts int values from -1 to 256. Default values from the system are -1 and 256.

bg_corner_chr and fg_corner_chr Accepts int values from -1 to 256. Default values from the system are -1 and 256.

For reference check Figure 3 and 4.

```
# Header Section
#_____
align_header = "justify"
                            hidden header = False
                                                         inverse header = False
                                                         blinking_header = False
bold_header = False
                            italic_header
                                         = False
bg_header
          = -1
                            strike_header
                                         = False
                                                         underline_header = False
          = -1
                            dim_header
                                         = False
                                                         bg_all_cell_ header = True
fg_header
```

bg_all_cell_data The bg color will affect the entire cell or just the header.

```
align_header It accepts 4 values, left (l), justify (j), center (c), and right (r).
```

bg_header and fg_header Accepts int values from -1 to 256. Default values from the system are -1 and 256.

Attributes for the header lines

```
bold_vertical_header_line_chr = False right_vertical_header_line_chr = "|" bg_vertical_header_line_chr = -1 left_vertical_header_line_chr = "|" fg_vertical_header_line_chr = -1 middle_vertical_header_line_chr = "|"
```

For reference check Figure 3 and 4.

```
#------
# Header Under Line Section
#
```

Attributes for the line below the header text

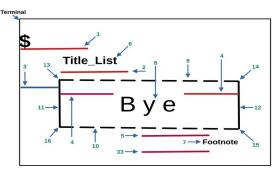
```
bold_under_line_header = False horizontal_line_under_header_on = False bg_under_line_header = -1 horizontal_line_under_header_chr = "-" fg_under_line_header = -1
```

horizontal_line_under_header_on Horizontal lines between headers and the first data row.

bg_under_line_header and fg_under_line_header Accepts int values from -1 to 256. Default values from the system are -1 and 256.

Attributes for the header corners (left, middles and right)

For more reference see figure 3.



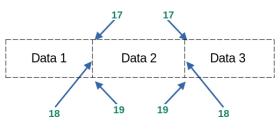


Figure 2

Figure 1

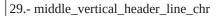
1 adj_top_margin	2 top_space	3 adj_indent
4 adj_space	5 bottom_space	6 msg_title
7 msg_footnote	8 data	9 top_horizontal_line_chr
10 bottom_horizontal_line_chr	11 left_vertical_line_chr	12 right_vertical_line_chr
13 top_left_corner_chr	14 top_right_corner_chr	15 bottom_right_corner_chr
16 bottom_left_corner_chr	33 adj_bottom_margin	



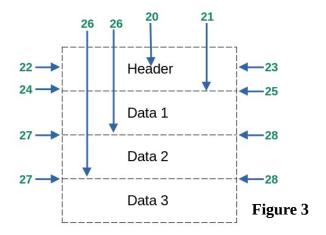
- 18.- middle_vertical_line_chr
- 19.- middle_bottom_corner_chr

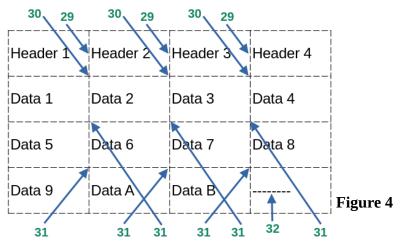
2U	_ '	haa	dor

- 21.- horizontal_line_under_header_chr
- 22.- left_vertical_header_line_chr
- 23.- right_vertical_header_line_chr
- 24.- left_corner_line_under_header_chr
- 25.- right_corner_line_under_header_chr
- 26.- middle_horizontal_line_chr
- 27.- left_lateral_corner_chr
- 28.- right_lateral_corner_chr

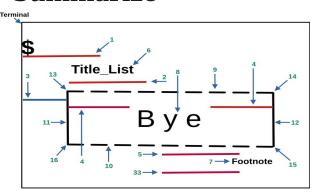


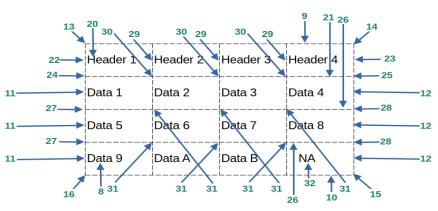
- 30.- middle_corner_line_under_header_chr
- 31.- middle_inner_corner_chr
- 32.- set_fill_chr





Summarize

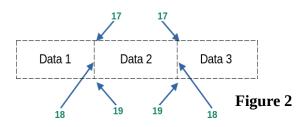




Note: 2 and 33 only work if the title and footnote exist.

Figure 5

Figure 1



	I	
1 adj_top_margin	2 top_space	3 adj_indent
4 adj_space	5 bottom_space	6 msg_title
7 msg_footnote	8 data	9 top_horizontal_line_chr
10 bottom_horizontal_line_chr	11 left_vertical_line_chr	12 right_vertical_line_chr
13 top_left_corner_chr	14 top_right_corner_chr	15 bottom_right_corner_chr
16 bottom_left_corner_chr	17 middle_top_corner_chr	18 middle_vertical_line_chr
19 middle_bottom_corner_chr	20 header	21 horizontal_line_under_header_chr
22 left_vertical_header_line_chr	23 right_vertical_header_line_chr	24 left_corner_line_under_header_chr
25 right_corner_line_under_header_chr	26 middle_horizontal_line_chr	27 left_lateral_corner_chr
28 right_lateral_corner_chr	29 middle_vertical_header_line_chr	30 middle_corner_line_under_header_chr
31 middle_inner_corner_chr	32 set_fill_chr	33. adj_bottom_margin

Horizontal Line Default Values:

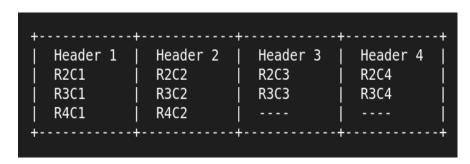
bg_all_cell_data/header Default Values:

top_horizontal_line_on	= 1	bottom_horizontal_line_on	= 1	bg_all_cell_data	= True
middle_horizontal_line_on	= 0	horizontal_line_under_header_on	= 0	bg_all_cell_heade	r = True

Some Other Default Values:

Examples:

Demo 1. Default Values



Demo 2. A Little bit of Customization

```
import custom_print as cp
```

```
tlb = cp.FancyFormat()
lst = [["Header 1","Header 2","Header 3","Header 4"],
```

["R2C1","R2C2","R2C3","R2C4"], ["R3C1","R3C2","R3C3","R3C4"], ["R4C1","R4C2"]]

tlb.msg title = "Title"

tlb.align_title = cp.Align.CENTER

tlb.bold_title = True tlb.fg_title = 21 tlb.bg_title = 231

tlb.bg_header = 90 tlb.fg_header = 231

tlb.horizontal_line_under_header_on = True

tlb.align_data = cp.Align.CENTER

tlb.fg_data = 14

tlb.msg_footnote = " Footnote "

 $tlb.align_footnote = cp.Align.RIGHT$

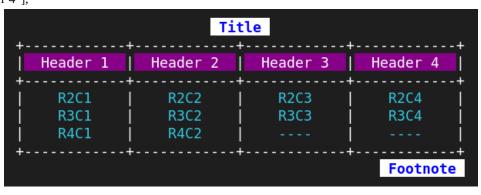
tlb.bold_footnote = True

tlb.bg_footnote = 231 tlb.fg_footnote = 21

tlb.print_fancy_format(lst)

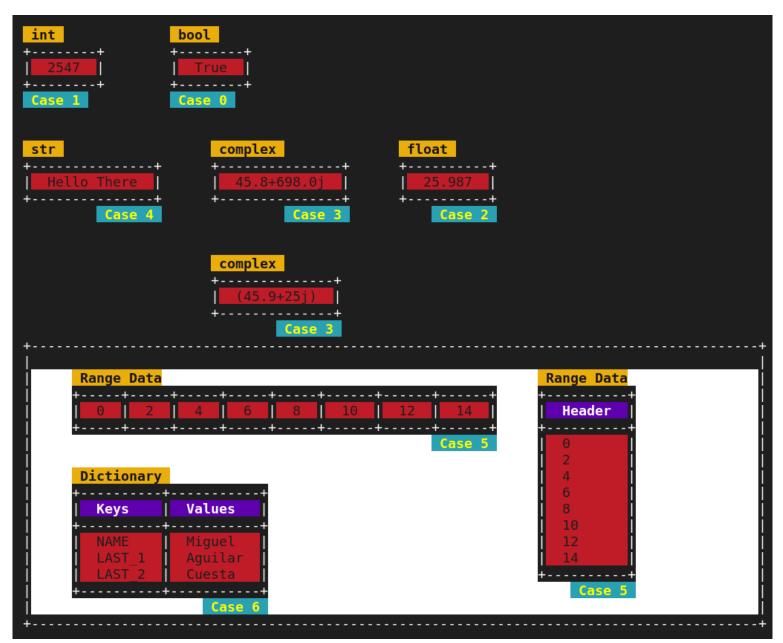
lst = [["Header"],["R2C1"],["R3C1"],["R4C1"]]

tlb.print_fancy_format(lst, cp.Line_Style.SINGLE)





Demo $3 \rightarrow$ **Type of Variables**



Demo 4. Some More Customization

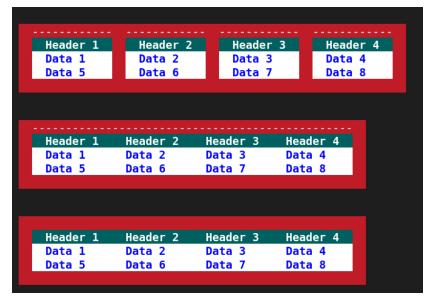
+			+
Header 1	Header 2	Header 3	Header 4
+		•	+
Data 1	Data 2	Data 3	Data 4
Data 5	Data 6	Data 7	Data 8
Data 9	Data A	Data B	
+		•	+

Demo 5. Two List Joined

+	+	+	++
Header 1	Header 2	Header 3	Header 4
Data 1	Data 2	Data 3	Data 4
Data 5	Data 6	Data 7	Data 8
Data 9	Data A	Data B	
+	+	+	++
Header 1	Header 2	Header 3	Header 4
Data 1	Data 2	Data 3	Data 4
Data 5	Data 6	Data 7	Data 8
Data 9	Data A	Data B	
+	+	+	++

Demo 6. Some More Customization

tbl1.adj_top_margin = 2



```
import custom_print as cp
tbl = cp.FancyFormat()
lst = [["Header 1"
                     "Header 2",
                                   "Header 3"
                                                 ],
                                   "Data 3"
      ["Data 1",
                     "Data 2",
                                                 ],
       ["Data 4",
                     "Data 5".
                                   "Data 6"
                                                 ]]
# Colors
tbl.bg_horizontal_line = 21
tbl.bg vertical line = 21
tbl.bg_corner_chr = 21
tbl.bg_inner_corner_chr = 21
tbl.bg_under_line_header = 21
tbl.bg_corner_under_line_header = 21
tbl.bg vertical header line chr = 21
tbl.bg_header = 90
tbl.fg\_header = 231
tbl.bold header = True
tbl.bg_data = 231
tbl.fg data = 0
tbl.bold data = True
```

```
tbl1.print_fancy_format(data=lst, style=cp.Line_Style.NONE)
tbl1.print_fancy_format(data=lst, style=cp.Line_Style.DOUBLE_SPACE_COL_COLOR)
tbl1.print_fancy_format(data=lst, style=cp.Line_Style.NO_SPACE_COL_COLOR)

tbl1.horizontal_line_under_header_on = True
tbl1.middle_horizontal_line_on = True
tbl1.print_fancy_format(data=lst, style=cp.Line_Style.NONE)
tbl1.print_fancy_format(data=lst, style=cp.Line_Style.DOUBLE_SPACE_COL_COLOR)
tbl1.print_fancy_format(data=lst, style=cp.Line_Style.NO_SPACE_COL_COLOR)
```

Header 1	Header 2	Header 3	
Data 1	Data 2	Data 3	
Data 4	Data 5	Data 6	
Header 1	Header 2	Header 3	
Data 1 Data 4	Data 2 Data 5	Data 3	
Dala 4	Data 5	Data 6	
Header 1	Header 2	Header 3	
Data 1	Data 2	Data 3	
Data 4	Data 5	Data 6	
Header 1	Header 2	Header 3	
Data 1	Data 2	Data 3	
Data 4	Data 5	Data 6	
Vala 4	vata 5	Data 0	
Header 1	Header 2	Header 3	
Data 1	Data 2	Data 3	
Data 4	Data 5	Data 6	
Header 1	Header 2	Header 3	
Data 1	Data 2	Data 3	
Data 4	Data 5	Data 6	

Pen Class

```
This class contains two methods:
```

```
draw_line(size=0, layout=Layout.HORIZONTAL, tail="\N{BLACK DIAMOND}", body="-", head="\N{BLACK DIAMOND}") draw_rectangle(length=3, width=3, style=Line_Style.DASH)
```

Rectangle Default Values

```
top_left_corner_chr = "+" top_horizontal_line_chr = "-" right_vertical_line_chr = "|" top_right_corner_chr = "+" bottom_right_corner_chr = "+" bottom_left_corner_chr = "+" refill_bg_color = False
```

Line Default Values

General Default Values

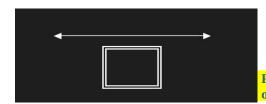
```
bold_draw_line = False adj_indent = 0
bg_draw_line = -1
fg_draw_line = -1
```

Example: import custom_print as cp

```
pen = cp.Pen()
pen.adj_indent = 8
```

pen.draw_line(size=20, layout=cp.Layout.HORIZONTAL, tail=cp.Unicode.BLACK_LEFT_POINTING_TRIANGLE, body=cp.Unicode.EM_DASH, head=cp.Unicode.BLAKC_RIGHT_POINT_TRIANGLE)

```
cp.ins_newline(2)
pen.adj_indent = 14
pen.draw_rectangle(length=8, width=4, style=cp.Line_Style.DOUBLE)
```



Report bugs at → acma.mex@hotmail.com

FanyPrint module is not a big thing, but I hope you find useful occasionally. Python 3.12.1 or greater is required.

Note: custom_print module has been tested on RedHat 9, Centos Stream 9, AlmaLinux 9, and Windows 10.

https://github.com/acma82/New_Fancy_Print/

Saturday November 16, 2024.