Fancy Print Module

Screen Functions

clear()	It Clears the terminal and return the cursor to home (it uses the system command).
clean()	It Cleans the terminal and return the cursor to home (it uses the ansi command).
erase()	It Erases the terminal and leave the cursor to in the current position (it uses the ansi command).
dimensions()	It returns the dimensions of the terminal, cols and rows.
resize(rows=25, cols=80)	It resizes the terminal size.

Example:

```
import fancyprint as fp
fp.clear()
fp.resize(rows=30, cols=100)
r, c = fp.dimensions()
```

Internal Functions

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

This function displays all background colors available with ansi code. Three options for better visualization.
1.- The option bold for the font (True / False)
2.- The option fg to visualize the background colors with a specific foreground color.
3.- The option n_line 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. Three options for better visualization.
1.- The option bold for the font (True / False)
2.- The option bg to visualize the background colors with a specific foreground color.
3.- The option n_line to insert lines between the colors.

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

ins_newline(n=1) → This function insert n new lines.

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

reset_font() → This function reset 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 pass 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.

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

Example:

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

Note: This 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 display 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 display below:

Align.RIGHT = “right” = “r” Align.LEFT = “left” = “l”
Align.CENTER = “center” = “c” Align.JUSTIFY = “justify” = ”j”

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

Layout.HORIZONTAL = “horizontal” Layout.VERTICAL = “vertical”

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

ALL_ROW ONLY_WORD

Unicode → This class is to insert some unicode characters.

```
#-------------------------------------------------------------------------------------------------------------------------
# Lines                                                    Triangle                                                    -
#-------------------------------------------------------------------------------------------------------------------------
BOX_DRAWINGS_LIGHT_HORIZONTAL                              BLACK_UP_POINTING_TRIANGLE
BOX_DRAWINGS_LIGHT_VERTICAL_AND_RIGHT                      WHITE_UP_POINTING_TRIANGLE
BOX_DRAWINGS_LIGHT_VERTICAL_AND_LEFT                       BLAKC_RIGHT_POINT_TRIANGLE
BOX_DRAWINGS_LIGHT_VERTICAL                                WHITE_RIGHT_POINT_TRIANGLE
BOX_DRAWINGS_LIGHT_DOWN_AND_HORIZONTAL                     BLACK_DOWN_POINTING_TRIANGLE
BOX_DRAWINGS_LIGHT_UP_AND_HORIZONTAL                       WHITE_DOWN_POINTING_TRIANGLE
BOX_DRAWINGS_LIGHT_VERTICAL_AND_HORIZONTAL                 BLACK_LEFT_POINTING_TRIANGLE
EM_DASH                                                    WHITE_LEFT_POINTING_TRIANGLE

#-------------------------------------------------------------------------------------------------------------------------
# Miscellaneous                                                                                                        -
#-------------------------------------------------------------------------------------------------------------------------
BLACK_DIAMOND                                              WHITE_DIAMOND
BLACK_CIRCLE                                               WHITE_CIRCLE
FACE
```

For more reference → https://www.unicode.org/charts/nameslist/

Line_Style → This class is used with FancyFormat class and Draw class. There are 8 options.

Style_Line.CUSTOMIZED Style_Line.SINGLE
Style_Line.SINGLE_BOLD Style_Line.SINGLE_HEAVY

Style_Line.DOUBLE	Style_Line.DASH
Style_Line.SQR_BRACKETS	Style_Line.NONE

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

Style_Line.CUSTOMIZED	→ "customized"	Style_Line.SINGLE	→ "single"
Style_Line.SINGLE_BOLD	→ "single_bold"	Style_Line.SINGLE_HEAVY	→ "single_heavy"
Style_Line.DOUBLE	→ "double"	Style_Line.DASH	→ "dash"
Style_Line.SQ_BRACKETS	→ "sq_brackets"	Style_Line.NONE	→ "none"

Cursor Class

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

jumpTo → This method jumps rows or columns for the cursor in the terminal.

jumpxy → This method jumps the cursor to a specific coordinates in the terminal.

moveTo → This method moves rows or columns for the cursor in the terminal.

movexy → This method moves the cursor to a specific coordinates in the terminal.

Example:

```
import fancyprint as fp
crs = fp.Cursor()
crs.jumpTo(4, “D”)

crs.jumpTo(qty=20, direction=fp.Move.RIGHT) ←.→ crs.jumpTo(qty=20, direction=”right”)
print(“Hello There…!”)

print(f”{crs.moveTo(qty=20, direction=fp.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 display below.

bold = False	bg = -1	fg = -1	italic = False
dim = False	underline = False	blinking = False	inverse = False
hidden = False	strike = False	indent = False	next_line = True

indent → this define how far we want to start to print the message from the left.
next_line → this define where we want to jump the line or not when printing the message.

print_style(msg) → This method will print the style with the defined attributes.

Example:

```
import fancyprint as fp
fs = fp.FontStyle()
fs.bg = 21
fs.fg = 231
fs.print_style(“ My Font Style ”)
```

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

```
fs.reset_style()
```

fs.print_style(“ My Font Style “)

start_style() and stop_style() → This methods are used if we will be continuing using the style in many rows.

Example:

```
import fancyprint as fp
fs = fp.FontStyle()
fs.bg = 21
fs.fg = 231
print(f”{fs.start_style()} Font Style Line 1”)
print(f” Font Style Line 2 {fs.stop_style()}”)
fs.reset_style()
print(f”{fs.start_style()} Default Style {fs.stop_style()}”)
```

FancyMessage Class

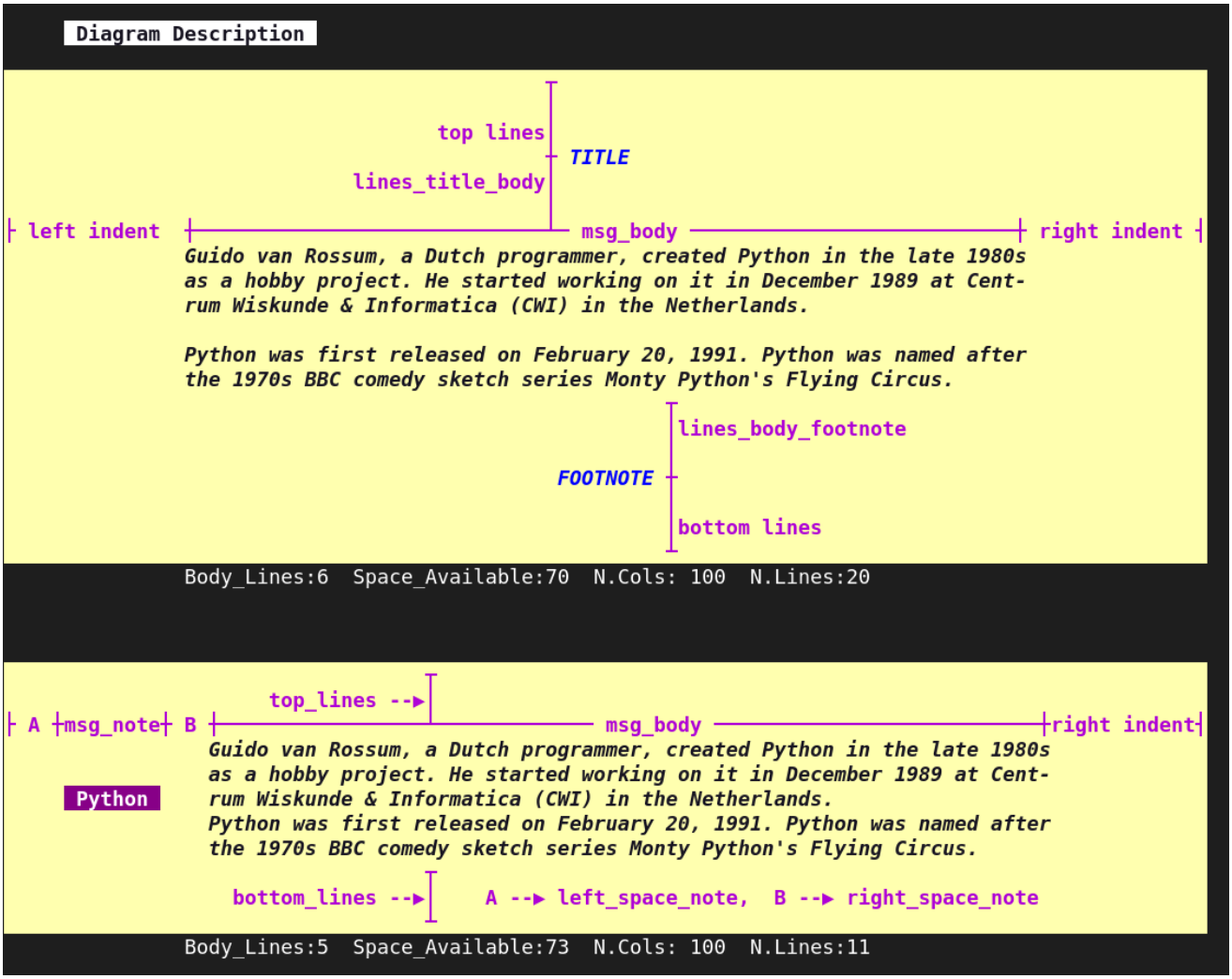
```
#-------------------------------------------------------------------------------------------------------------------------------------------
# Body Default Values                                                                                                                      -
#-------------------------------------------------------------------------------------------------------------------------------------------
bg_body    = 4              underline_body = False          msg_body     = "Body Msg
fg_body    = 231            blinking_body  = False          right_indent = 2
bold_body  = False          inverse_body   = False          left_indent  = 2
dim_body   = False          hidden_body    = False          top_lines    = 1
italic_body= False          strike_body    = False          bottom_lines = 1

help_lines = False          length = Length_bg.ALL_ROW

# 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 Attributes                                                                                                                          -
#-------------------------------------------------------------------------------------------------------------------------------------------
msg_note = " Note: "        align_note     = Align.JUSTIFY  blinking_note = False
bg_note    = 231            strike_note    = False          underline_note     = False
fg_note    = 0              italic_note    = False          position_note = 1
bold_note  = False          inverse_note = False            right_space_note   = 2
dim_note   = False          hidden_note  = False            left_space_note = 2
#-------------------------------------------------------------------------------------------------------------------------------------------
# Title Attributes                                                                                                                         -
#-------------------------------------------------------------------------------------------------------------------------------------------
msg_title = “”              align_title = Align.LEFT        blinking_title = False
bg_title = 4                strike_title = False            underline_title = False
fg_title = 231              italic_title = False            title_indent = 2
bold_title  = False         inverse_title = False           lines_title_body = 1
dim_title = False           hidden_title = False
#-------------------------------------------------------------------------------------------------------------------------------------------
# Footnote Attributes                                                                                                                      -
#-------------------------------------------------------------------------------------------------------------------------------------------
msg_footnote = “”           align_footnote = Align.RIGHT    blinking_footnote = False
bg_footnote = 4             strike_footnote = False         underline_footnote = False
fg_footnote = 231           italic_footnote = False         footnote_indent = 2
bold_footnote  = False      inverse_footnote = False        lines_body_footnote = 1
dim_footnote = False        hidden_footnote = False
```

Example:

```
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.
'''
import fancyprint as fp
msg = fp.FancyMessage()
msg.msg_title = "TITLE"
msg.msg_footnote = "FOOTNOTE"
msg.print_fancy_message(paragraph)
fp.ins_newline(2)
msg.msg_note = “Python”
msg.print_fancy_note(paragraph)
```



FancyFormat Class

This class contains two methods.

print_fancy_format(data, style)	Two arguments, the data to print and the line style.
reset_fancy_format()	It reset all the attributes to their default values.

Examples:

```
import fancyprint as fp
list1 = fp.FancyFormat()
```

Case 1: Passing the any type of variable.

```
list1.print_fancy_format("Hello World…!")
```

Output:

```
+--------------------+
| Hello World...! |
+--------------------+
```

Case 2: Passing the wrong type of variable.

```
my_list = []
list1.print_fancy_format(my_list)
```

Output:

```
+---------+
| none    |
+---------+
```

Case 3: Passing single item in a list.

```
my_list1 = ["Hello World...!"]
list1.print_fancy_format(my_list1)
```

Output:

```
+--------------------+
| Hello World...! |
+--------------------+
```

Case 4: Passing single item in a row to a list.

```
my_list1 = [["hello there!"]]
    list1.print_fancy_format(my_list1)
```

Output:

```
+----------------+
| hello there!   |
+----------------+
```

Case 5: Passing a list.

```
my_list1 = [1,2,3,4]
list1.print_fancy_format(my_list1)
my_list1 = ["Terminology","hello there!", "I am Miguelito"]
list1.print_fancy_format(my_list1)
```

Output:

```
+-----*-----*-----*-----+
| 1   | 2   | 3   | 4   |
+-----*-----*-----*-----+
```

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

Case 6: Passing a list in a single row.

```
my_list1 = [[1,2,3,4]]
list1.print_fancy_format(my_list1)
my_list1 = [["Terminology","hello there!", "I am Hello"]]
list1.print_fancy_format(my_list1)
```

Output:

```
+-----*-----*-----*-----+
| 1   | 2   | 3   | 4   |
+-----*-----*-----*-----+
```

```
+------------------*----------------*----------------+
| Terminology  | hello there!  | I am Hello   |
+------------------*----------------*----------------+
```

Case 7: Passing a list with a some combination rows and cols.

```
my_list1 = [[5,"hello"],6,50,[45]]
list1.print_fancy_format(my_list1)
```

Output:

```
+----------------*-----*--------*---------+
| [5, 'hello'] | 6   |   50   | [45]    |
+----------------*-----*--------*---------+
```

```
my_list1 = [10,[50],[250],["C"],["H"],10,20]
    list1.print_fancy_format(my_list1)
```

Output:

```
+------*--------*---------*---------*---------*------*------+
| 10  | [50]  | [250] | ['C'] | ['H'] | 10  | 20  |
+------*--------*---------*---------*---------*------*------+
```

Case 8: Passing a list with rows and one cols.

```
my_list1 = [[10],[20],[30],[40]]
list1.print_fancy_format(my_list1)
```

output:
```
+---------+     +-----+
| R1C1 |      | 10 |
| R1C2 |      | 20 |
| R1C3 |      | 30 |
| R1C4 |      | 40 |
+---------+    +-----+
```

Case 9:

Passing a list with a some combination rows and cols.

```
my_list1 = [["R1C1","R1C2","R1C3"],
            ["R2C1","R2C2","R2C3"],
            ["R3C1","R3C2","R3C3"]]

list1.print_fancy_format(my_list1)
```

```
my_list1 = [["R1C1","R1C2","R1C3"],
            ["R2C1","R2C2","R2C3"],
            ["R3C1","R3C2","R3C3"]]

list1.horizontal_header_line = 1
list1.middle_horizontal_line_on = 1
list1.print_fancy_format(my_list1)
```

Output:

```
+---------+---------+---------+---------+
| R1C1 | R1C2 | R1C3 | R1C4 |
| R2C1 | R2C2 | R2C3 | R2C4 |
| R3C1 | R3C2 | R3C3 | R3C4 |
| R4C1 | R4C2 | R4C3 | R4C4 |
+---------+---------+---------+---------+
```

Output:

```
+---------+---------+---------+---------+
| R1C1 | R1C2 | R1C3 | R1C4 |
+---------+---------+---------+---------+
| 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() accepts any type of variables.

Attributes in FancyFormat Class:

```
#-------------------------------------------------------------------------------------------------------------------------------------------
# General Use Section                                                                                                                      -
#-------------------------------------------------------------------------------------------------------------------------------------------
adj → adjust
adj_top_margin = 0      adj_bottom_margin = 0      adj_indent = 2      set_fill_chr = "----"
adj_top_space  = 0      adj_bottom_space  = 0      adj_space  = 2      updata_list  = False
                                                                       set_layout   = Layout.HORIZONTAL
```

adj_top_margin	Lines to be added between the terminal ($) and the title. It only accepts int values.
adj_top_space	Lines to be added between title and top list. It only accepts int values.
adj_bottom_margin	Lines to be added between the end of the list or footnote to the terminal ($).
adj_bottom_space	Lines to be added between the bottom of the list and the footnote. It only accepts int values.
adj_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.
set_fill_chr	When a list is not complete in the data, it will be filled out with some characters. fill_chr will be converted to string.
update_list	Notice that every single element in the list being passed will be converted to string in a temporary internal list. If you want to save this conversion to your original list then set to True. It only works with list type of variable.
set_layout	This option only works with set, setfrozen or range type of variables.

Note: adj_margin and adj_top_space will not work if the title is not set up. Also adj_bottom_space will not work if the footnote is not set up. Use print("\n") if you need space.

```
#-------------------------------------------------------------------------------------------------------------------------------------------------
# Title Section                                                                                                                                  -
#-------------------------------------------------------------------------------------------------------------------------------------------------
msg_title      = ""                 align_title  = "justify"          hidden_title     = False
bold_title     = False              italic_title  = False             inverse_title    = False
bg_title       = -1                 strike_title = False              blinking_title   = False
fg_title       = -1                 dim_title    = False              underline_title = False
```

msg_title The title name for the list. It only accepts string values, by default is empty.

bold_title It only accepts two int values 0 and 1, by default is set to 0.

bg_title and fg_title accepts int values from -1 to 256. Default value is -1 or 256.

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

```
#-------------------------------------------------------------------------------------------------------------------------------------------------
# Footnote Section                                                                                                                               -
#-------------------------------------------------------------------------------------------------------------------------------------------------
msg_footnote = ""                 align_footnote  = "justify"          hidden_footnote      = False
bold_footnote = False             italic_footnote  = False             inverse_footnote     = False
bg_footnote   = -1                strike_footnote = False              blinking_footnote    = False
fg_footnote   = -1                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 default is set to 0.
bg_ footnote and fg_footnote accepts int values from -1 to 256. Default value is -1 or 256.

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

```
#-------------------------------------------------------------------------------------------------------------------------------------------------
# Data Section                                                                                                                                   -
#-------------------------------------------------------------------------------------------------------------------------------------------------
align_data = "justify"            hidden_data = False              inverse_data       = False
bold_data  = False                italic_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 value is -1 or 256.

```
#-------------------------------------------------------------------------------------------------------------------------------------------------
# Horizontal Line Section                                                                                                                        -
#-------------------------------------------------------------------------------------------------------------------------------------------------
top_horizontal_line_chr = "-"          bottom_horizontal_line_chr ="-"          middle_horizontal_line_chr = "-"
top_horizontal_line_on  = True         bottom_horizontal_line_on  = True        middle_horizontal_line_on = False
bold_horizontal_line = False           bg_horizontal_line = -1                  fg_horizontal_line = -1
```

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 value is -1 or 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 value is -1 or 256.

```
#-------------------------------------------------------------------------------------------------------------------------------
# External Corner Section                                                                                                      -
#-------------------------------------------------------------------------------------------------------------------------------
top_left_corner_chr   = "+"     bottom_right_corner_chr ="+"     bold_corner_chr = False
top_right_corner_chr = "+"      bottom_left_corner_chr ="+"      bg_corner_chr = -1
                                                                 fg_corner_chr = -1
```

top_left_corner_chr A string type. For reference check Figure 1. By default set to “+”
top_right_corner_chr A string type. For reference check Figure 1. By default set to “+”

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 value is -1 or 256.

```
#-------------------------------------------------------------------------------------------------------------------------------
# Middle Corner Section                                                                                                        -
#-------------------------------------------------------------------------------------------------------------------------------
bold_inner_corner_chr = False     middle_top_corner_chr =  "+"     right_lateral_corner_chr = "+"
bg_inner_corner_chr = -1          middle_inner_corner_chr =  "+"   left_lateral_corner_chr =  "+"
fg_inner_corner_chr = -1          middle_bottom_corner_chr = "+"
```

bg_corner_chr and fg_corner_chr accepts int values from -1 to 256. Default value is -1 or 256.

For reference check Figure 3 and 4.

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

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 value is -1 or 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
bg_under_line_header = -1
fg_under_line_header = -1
horizontal_line_under_header_on = False
horizontal_line_under_header_chr = "-"

horizontal_line_under_header_on horizontal line between headers and the firs data row.
bg_under_line_header and fg_under_line_header accepts int values from -1 to 256. Default value is -1 or 256.

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

bold_corner_under_line_header = False
bg_corner_under_line_header = -1
fg_corner_under_line_header = -1
left_corner_under_line_header_chr = "+"
right_corner_under_line_header_chr = "+"
middle_corner_under_line_header_chr = "+"

For more reference see figure 3.

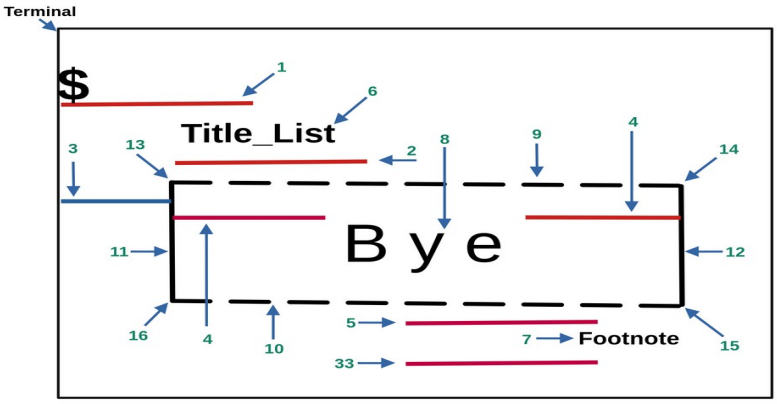


Figure 1

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	

17.- middle_top_corner_chr
18.- middle_vertical_line_chr
19.- middle_bottom_corner_chr

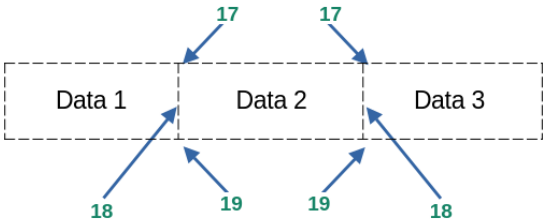


Figure 2

20.- header
21.- horizontal_line_under_header_chr
22.- left_vertical_header_line_chr
23.- right_vertical_header_line_chr
24.- left_corner_under_line_header_chr
25.- right_corner_under_line_header_chr
26.- middle_horizontal_line_chr
27.- left_lateral_corner_chr
28.- right_lateral_corner_chr

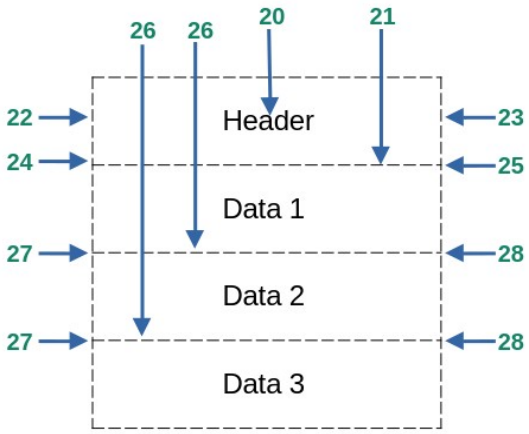


Figure 3

29.- middle_vertical_header_line_chr
30.- middle_corner_under_line_header_chr
31.- middle_inner_corner_chr
32.- set_fill_chr

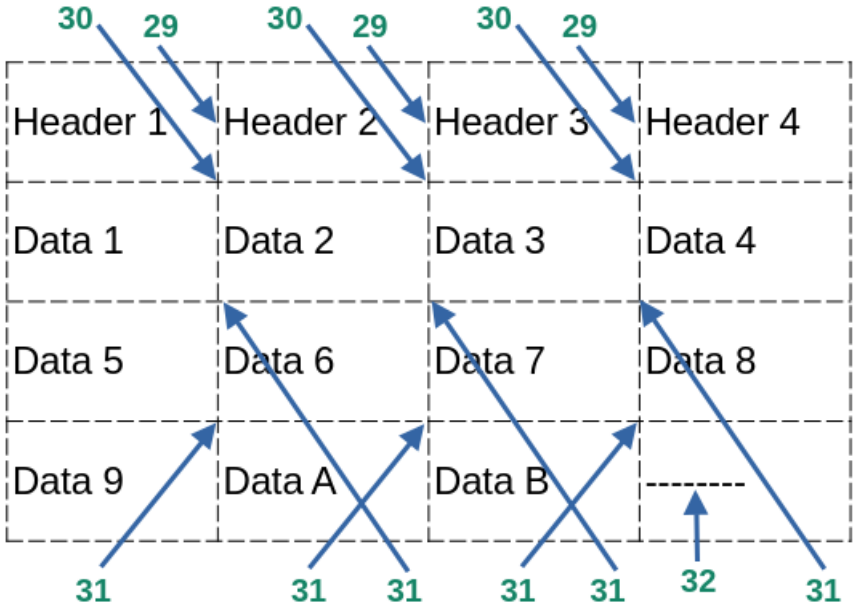
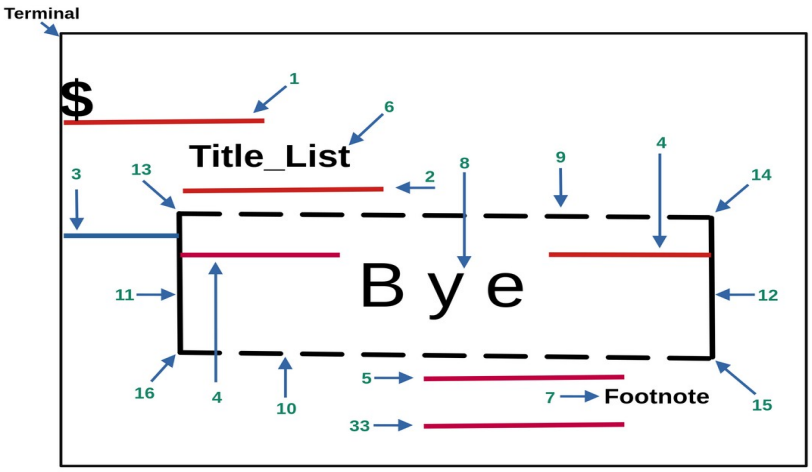


Figure 4

Summarize



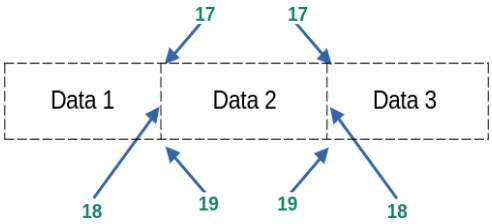


Figure 2

Figure 1

Note: 2 and 33 only works if they exist (title and footnote)

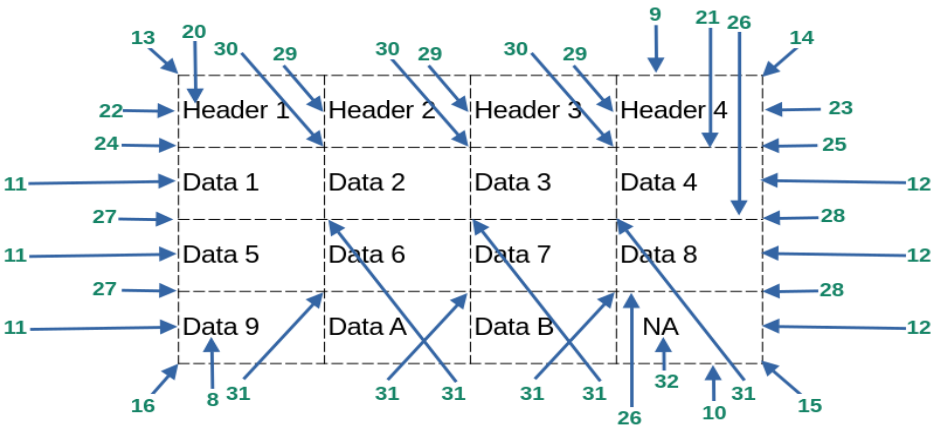


Figure 5

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_under_line_header_chr
25.- right_corner_under_line_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_under_line_header_chr
31.- middle_inner_corner_chr	32.- set_fill_chr	33. adj_bottom_margin

Default Horizontal Line Values:

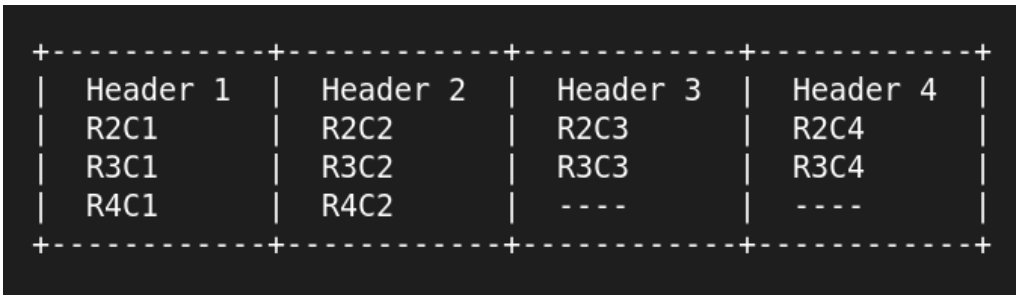
top_horizontal_line_on = 1 bottom_horizontal_line_on = 1

middle_horizontal_line_on = 0 horizontal_line_under_header_on = 0

Examples:

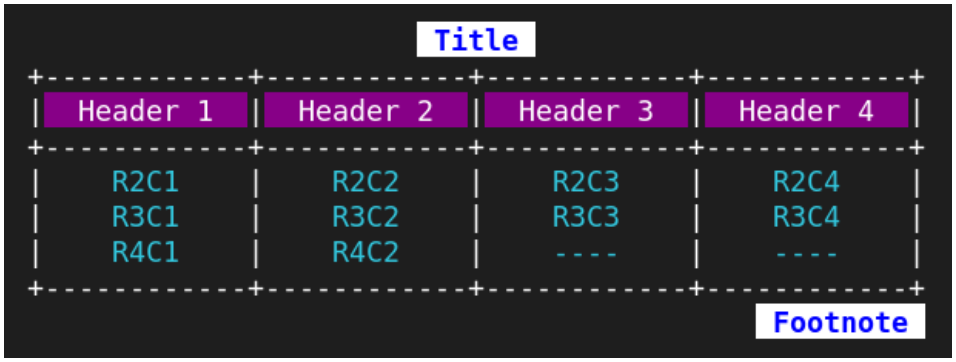
Demo 1 Default Values

```
import fancyprint as fp

tlb = fp.FancyFormat()
lst = [["Header 1","Header 2","Header
3","Header 4"],
      ["R2C1","R2C2","R2C3","R2C4"],
      ["R3C1","R3C2","R3C3","R3C4"],
      ["R3C1","R3C2"]]

tlb.print_fancy_format(lst)
```

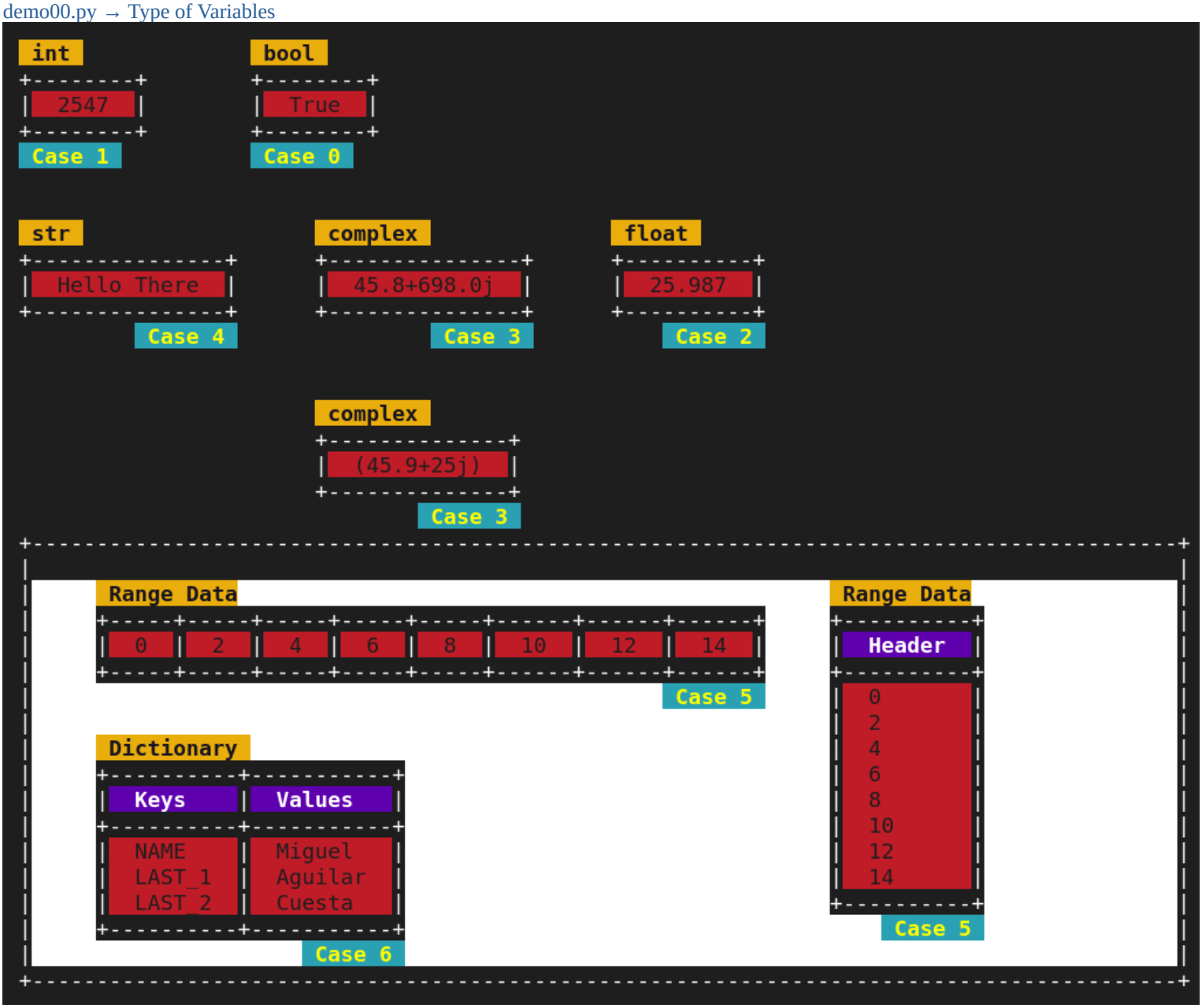


Demo 2 A Little of Customization

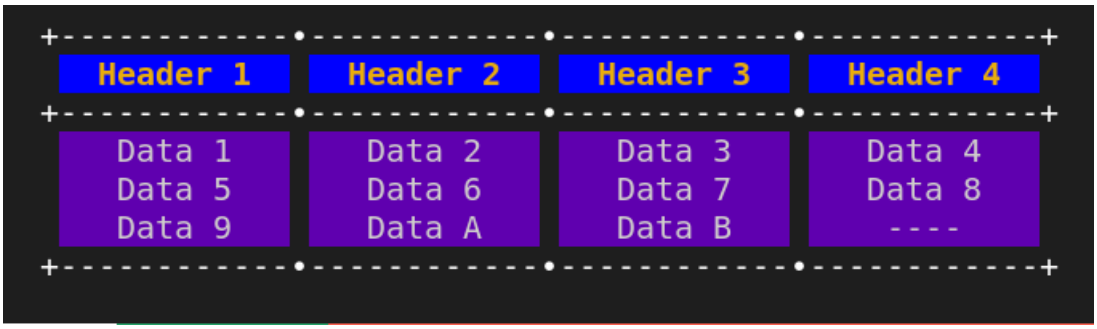
```
import fancyprint as fp

tlb = fp.FancyFormat()
lst = [["Header 1","Header 2","Header 3","Header 4"],
      ["R2C1","R2C2","R2C3","R2C4"],
      ["R3C1","R3C2","R3C3","R3C4"],
      ["R4C1","R4C2"]]

tlb.msg_title = " Title List "
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 = fp.Align.CENTER
tlb.fg_data = 14

tlb.msg_footnote = " Footnote List "
tlb.align_footnote = fp.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, fp.Line_Style.SINGLE)
```



demo00.py → Type of Variables



Demo 4 Some More Customization



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    |  ----      |
+------------+------------+------------+------------+
```

Pen Class

This class contains two methods.

draw_line(size, layout, tail, body, head)

draw_rectangle(length, width, style)

Rectangle Default Values

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

Line Default Values

bold_draw_line = False
bg_draw_line = -1
fg_draw_line = -1

General Default Values

adj_indent = 0

draw_line(size=0, layout, tail, body, head)

draw_rectangle(length=3, width=3, style=Line_Style.DASH)pen.adj_indent = 8

Example:

```
import fancyprint as fp
pen = fp.Pen()
pen.draw_line(size=20, layout=fp.Layout.HORIZONTAL, tail=fp.Unicode.BLACK_LEFT_POINTING_TRIANGLE,
              body=fp.Unicode.EM_DASH, head=fp.Unicode.BLAKC_RIGHT_POINT_TRIANGLE)
print()
pen.adj_indent = 14
pen.draw_rectangle(length=8, width=4, style=fp.Line_Style.DOUBLE)
```