

# learning python3 - framelt.py - command line tool to frame text on the console

These are my first steps in python programming language. The result is a little cli tool/function/library (whatever you call it ) that will encapsulate any given text within a ASCII Character frame. Either as command line arguments with dynamic resizing of the frame, or within python as a function with more freedom to define width and look of the frame.

See these Demos:

```
python framelt.py "Hello World!" "How are you?"  
#####  
# Hello World! #  
# How are you? #  
#####
```

of when called without any CLI Arguments it runs the internal demo function call:

```
python framelt.py  
DEMO of the framelt() function:
```

```
#####  
#  
# Hello World! #  
# Isn't this Cool,eh?  
# python is nice sometimes.  
# And easy to learn too for beginners.  
#  
# This was just a little training for my #  
# first steps in python3. free for #  
# personal, non-commercial use only!  
#  
# in 2015 by Axel Werner #  
# axel.werner.1973@gmail.com #  
#  
#####
```

## The code

[framelt.py](#)

...

This was just a little python3 experiment and training

```
for my first steps in learning python3.

Code is free for educational, personal use as long it is used
for non-commercial purposes.

written in python3 by by Axel Werner in 2015
eMail: axel.werner.1973@gmail.com
...

import sys

def hr(fillCharacter='#', width=79):
    return fillCharacter * width

def frameIt(textList, width=79, fillCharacter='*'):
    """
        frameIt() takes three arguments, a list of strings (lines of text),
        an integer which determines the width of your
        terminal/console/frame,
        and a string of a single character used to "frame" the
        text into.
    """
    frame= hr(fillCharacter, width) + "\n" + \
        enclose(textList, fillCharacter, width) + \
        hr(fillCharacter, width)+ "\n"
    return frame

def frameItAuto(textList, fillCharacter='*'):
    """
        frameIt() takes two arguments, a list of strings (lines of text),
        and a string of a single character used to "frame" the
        text into.
    """
    #peak detector - determine max length all lines given
    maxLineLen=0
    for line in textList:
        lenOfLine=len(line)
        if lenOfLine >= maxLineLen:
            maxLineLen=lenOfLine
    width=maxLineLen+4 # add 4 framing charakters to maxLineLen
    frame= hr(fillCharacter, width) + "\n" + \
        enclose(textList, fillCharacter, width) + \
        hr(fillCharacter, width)+ "\n"
    return frame

def enclose(textList, frameCharacter, width):
    newTextBlock=""
    for line in textList:
```

```

        lineLength=len(line)
        fillerCharakter=" "
        filler=fillerCharakter*(width-
lineLength-2-2*len(frameCharacter))
        newTextBlock=newTextBlock+ frameCharacter + " " + line + filler
+ " " + frameCharacter + "\n"
        return newTextBlock

def main(argv):

    if not argv:
        print("DEMO of the frameIt() function: \n\n")

    textList=[

        "",
        "Hello World!",
        "Isn't this Cool,eh?",
        "python is nice sometimes.",
        "And easy to learn too for beginners.",
        "",
        "This was just a little training for my ",
        "first steps in python3. free for",
        "personal, non-commercial use only!",
        "",
        "in 2015 by Axel Werner",
        "axel.werner.1973@gmail.com",
        ""

    ]
    print ( frameIt(textList, 50, '#') )
    exit(0)
else:
    print ( frameItAuto(argv, '#') )
    exit(0)

if __name__ == "__main__":
    main(sys.argv[1:])

```

— Axel Werner 2015-08-03 16:56

[python3](#), [python](#), [programming](#), [computer](#), [science](#), [learning](#), [software](#), [development](#)

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