GIMP 2.10 Plugin Primer

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Annotated Hello World Plugin Code: bart.py

```python
#!/usr/bin/env python

# This is a hello world plugin-in using gimpfu, a python interface package [1-3].
# [1] A good primer on python-plugins: https://www.gimp.org/docs/python/index.html
#    NB: Example code on-line are extremely GIMP version dependent; this script uses
#    GIMP-2.10. But not to worry, you can lookup the correct syntax by searching
#    through GIMP's procedure browser (Help -> Procedure Bowser), and adjust the examples
#    accordingly.
# [2] Mac OS X Notes:
#    a) Installing.
#       To run this on make Mac OS X, place this script_name.py in
#          /Users/<USERNAME>/Library/Application Support/GIMP/2.10/plug-ins
#       and make it executable (i.e., chmod 755 it).
#    b)  Debugging.
#       To debug start gimp on the command line, i.e.,
#          $ /Applications/GIMP-2.10.app/Contents/MacOS/gimp --verbose --console-messages
#       assuming you did a standard GIMP install.
#    c) Executing.
#        In GIMP do,
#          File -> Create -> "Hello world..."
#    d) Notes on Mac OS X and other platforms.
#          https://en.wikibooks.org/wiki/GIMP/Installing_Plugins
# [3] Cheat Sheet: http://gimpbook.com/scripting/
#
```

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Hello World Script
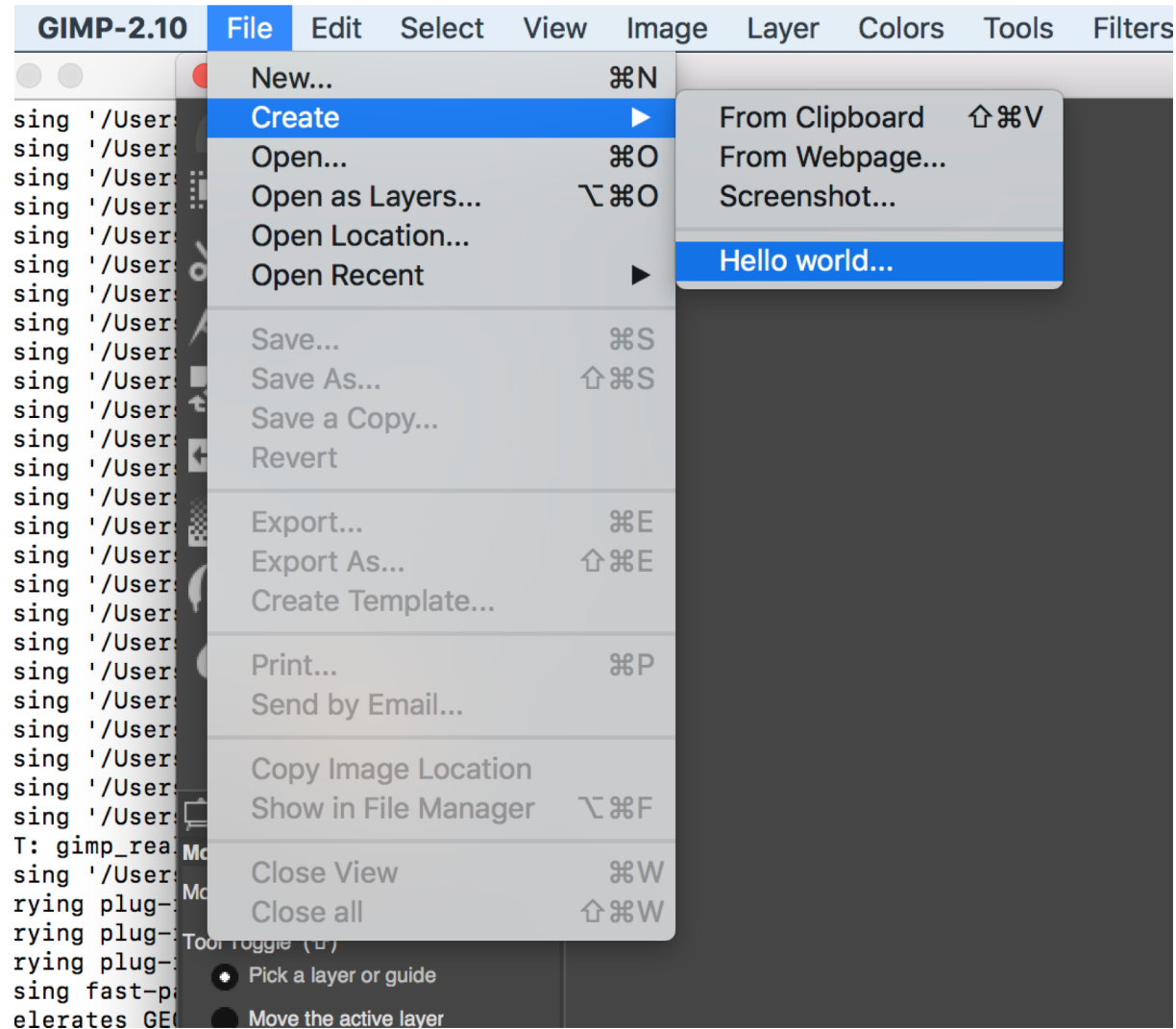
```python
from gimpfu import *


# hello world plugin source code
def hello_world(initstr,font,size,color):
    img = gimp.Image(1,1,RGB)
    gimp.set_foreground(color)
    # note: this is a gimp procedure-database (pdb) function, as in, you can use the
    #       procedure browser in gimp to get its definition information.
    layer = pdb.gimp_text_fontname(img,None,0,0,initstr,10,True,size,PIXELS,font)
    img.resize(layer.width, layer.height, 0, 0)
    # print to the console
    print "HELLO WORLD!"
    # display as image
    gimp.Display(img)
```
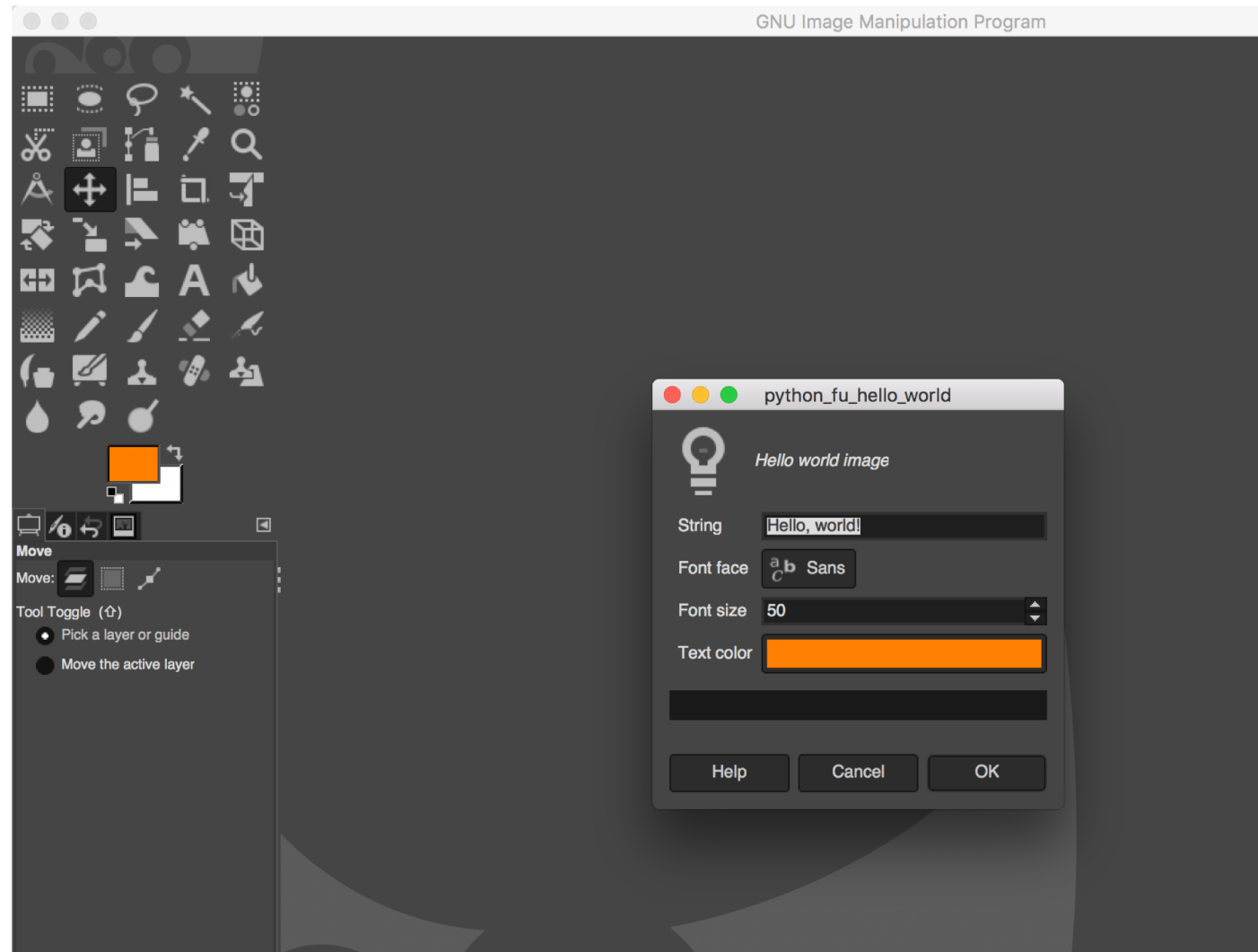
Registration/Installing

```python
# plugin registration
register(
    # unique plugin name
    "python_fu_hello_world",
    # brief description.
    "Hello world image",
    # detail description
    "Create an image with a user-provided string",
    # author, copyright, date
    "Bart Simpson", "That Dam Dog Inc.","2050",
    # pulldown menu label
    "Hello world...",
    "",
    # parameter-template for dialogue box mapping to function arguments.
    [
        (PF_STRING, "string", "String", 'Hello, world!'),
        (PF_FONT, "font", "Font face", "Sans"),
        (PF_SPINNER, "size", "Font size", 50, (1,3000,1)),
        (PF_COLOR, "color", "Text color",(1.0,0.5,0.0))
    ],
    [],
    # the function
    hello_world,
    # pulldown menu location
    menu="<Image>/File/Create"
)

# start/install the plugin
main()
```
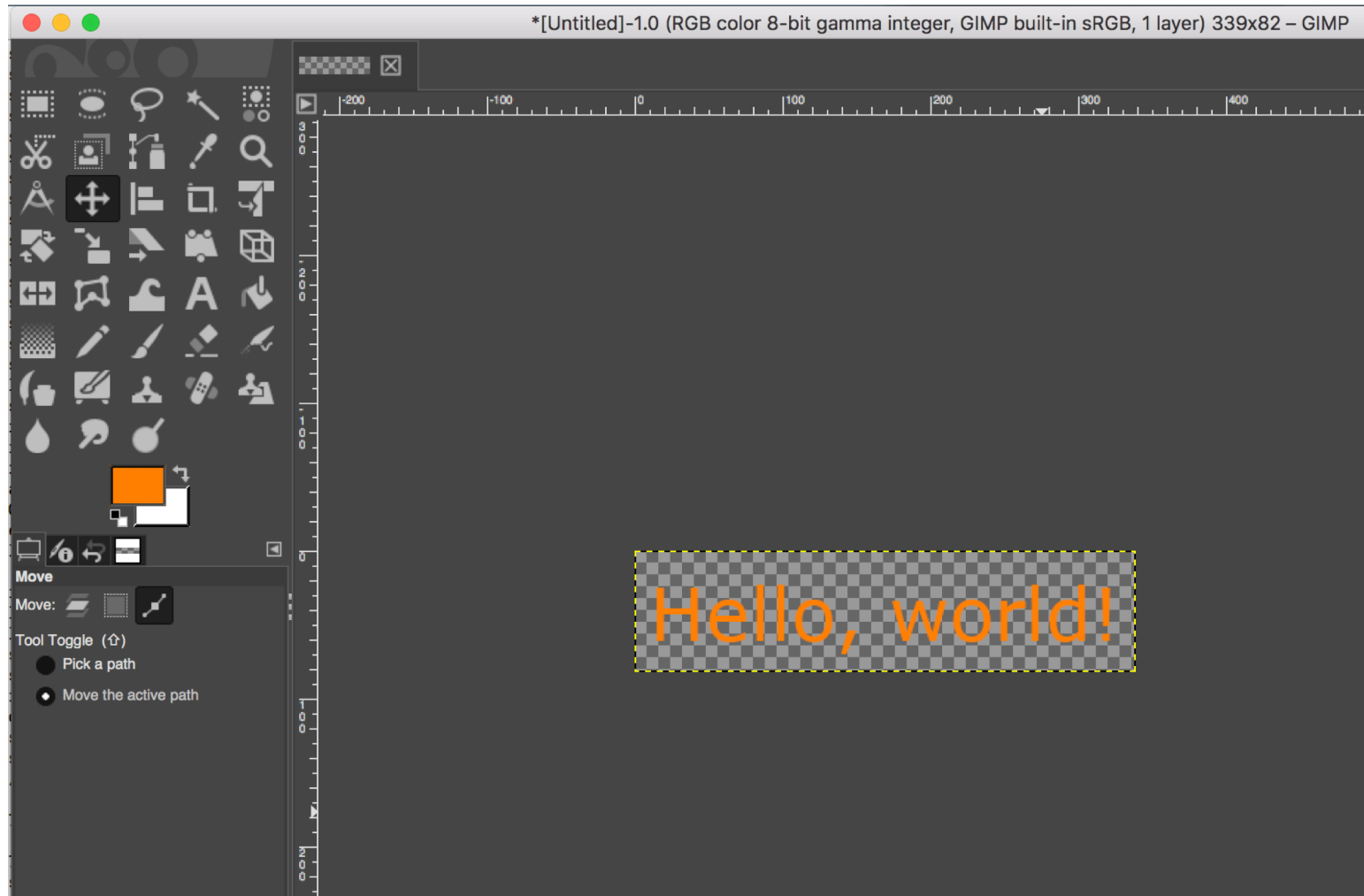
Execution

Execution

Execution

Console