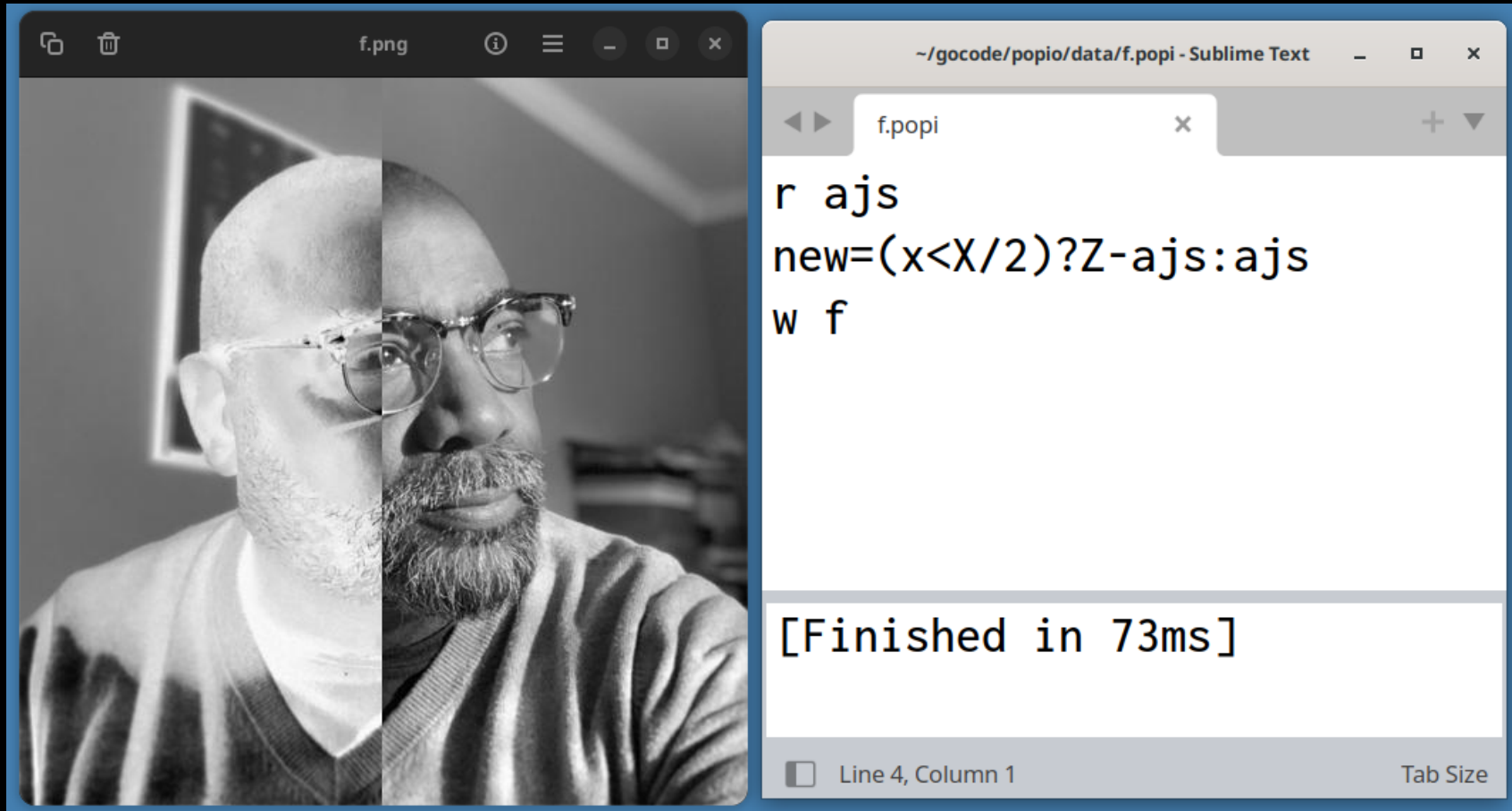


Interactive Image Manipulation with popi



popi (portable pico)

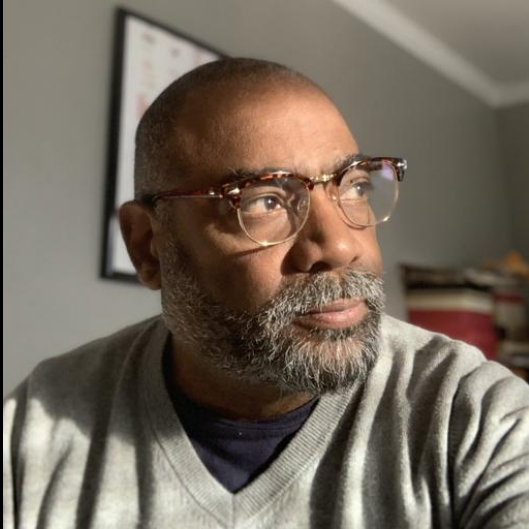


popi is the portable version of the pico editor, as described in “Beyond Photography — The Digital Darkroom” by Gerard Holzmann.

popi works with square, 8-bit (0-255, black-white) raw grayscale images.

popio (popi I/O)

```
popio -import < ajs.jpg > ajs run popi popio -export < ajs > f.png
```



original image



raw image



edited image

popio is a Go program to import and export popi images. popio reads from stdin and writes to stdout in two modes; (1) read images (JPEG or PNG) writing to raw, and (2) read raw files and write to PNG.

Set up

Loupe

Sublime Text

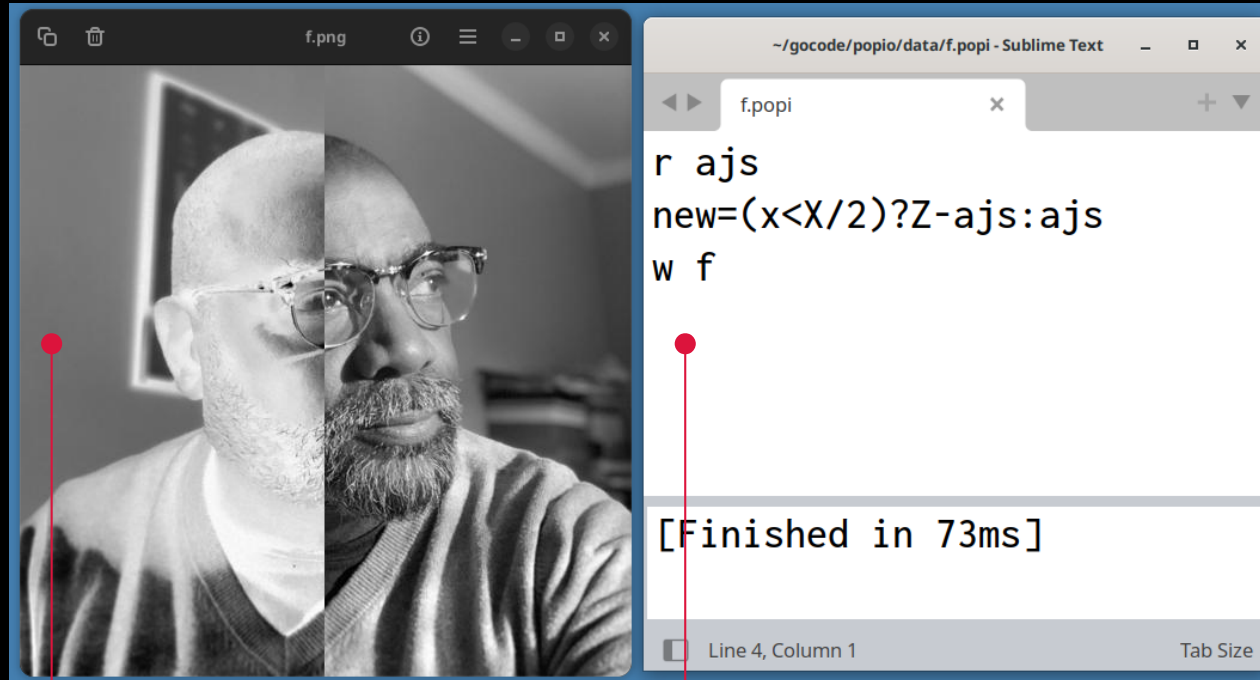


image in viewer

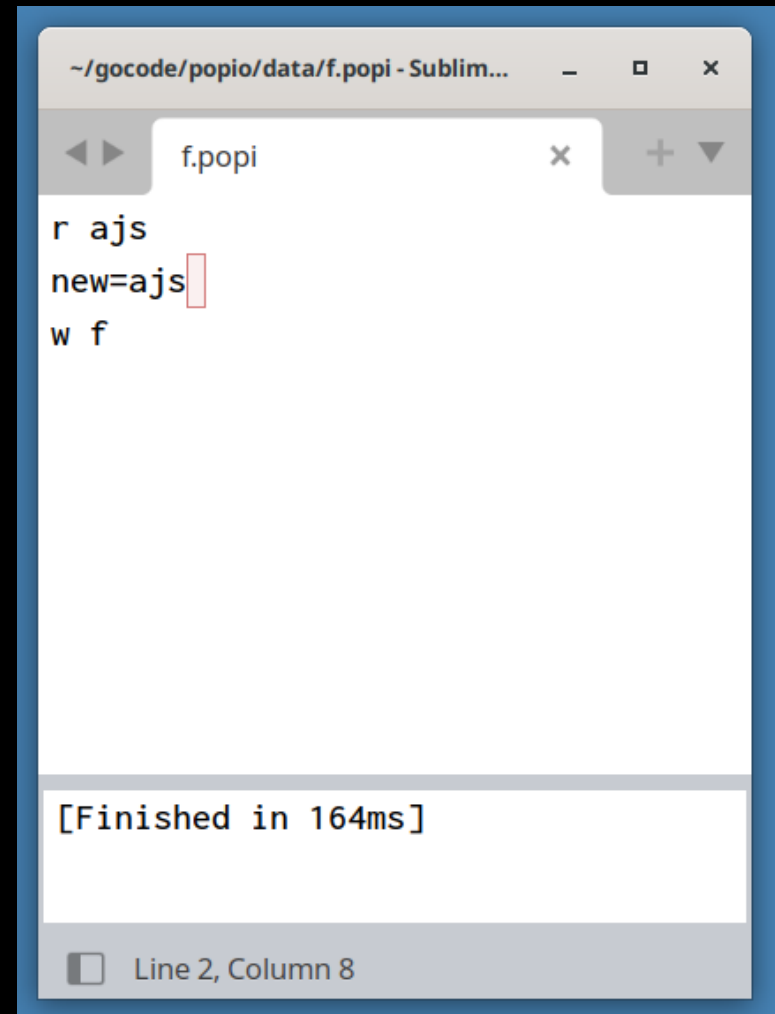
popi script in editor

f.png

```
popi < $file; popio -export < f > f.png
```

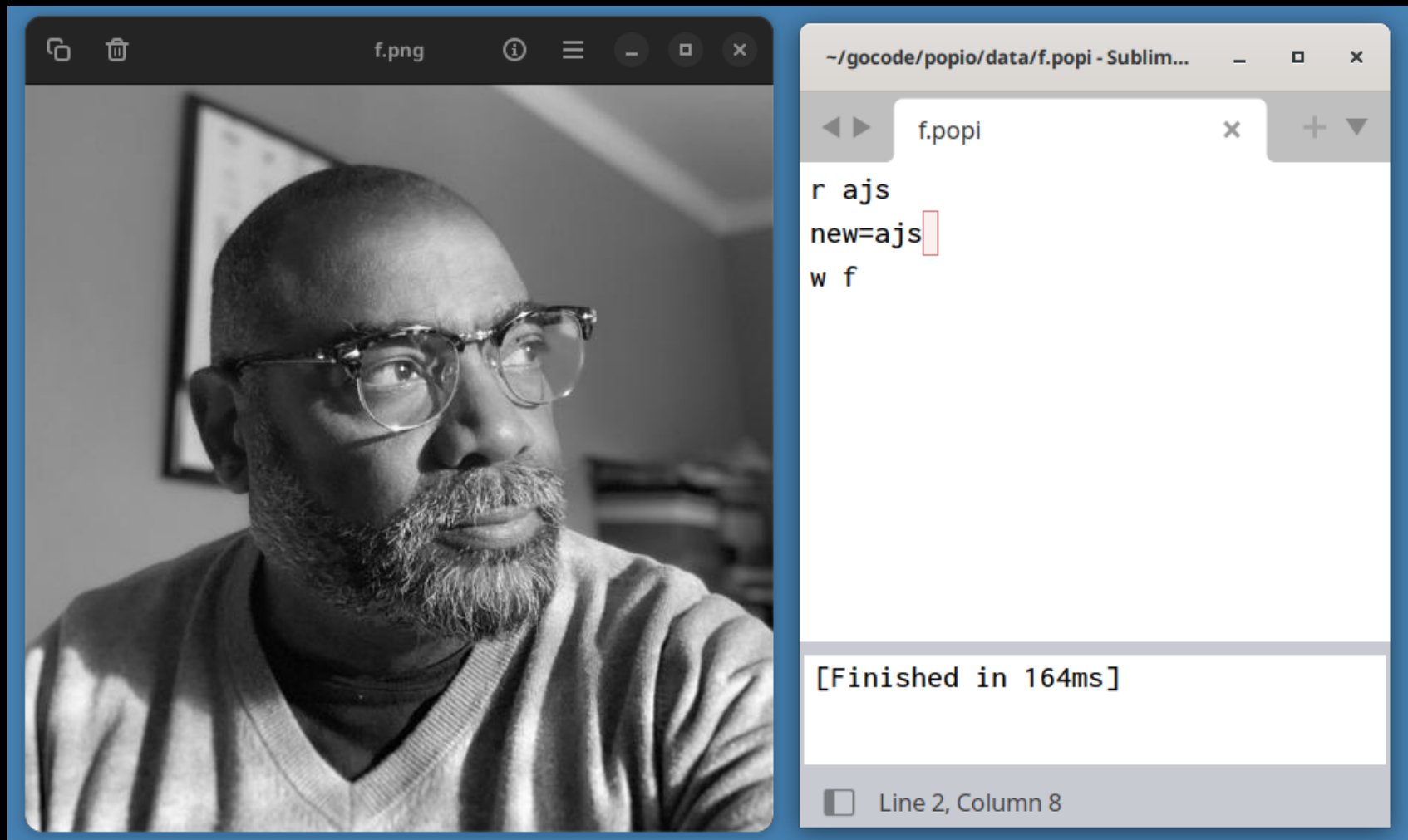
Running the build system (Ctrl- or Cmd-B) within the editor runs the script, making the output that is displayed in the viewer. To change the output, edit the script and re-run the build.

Editor with popi code

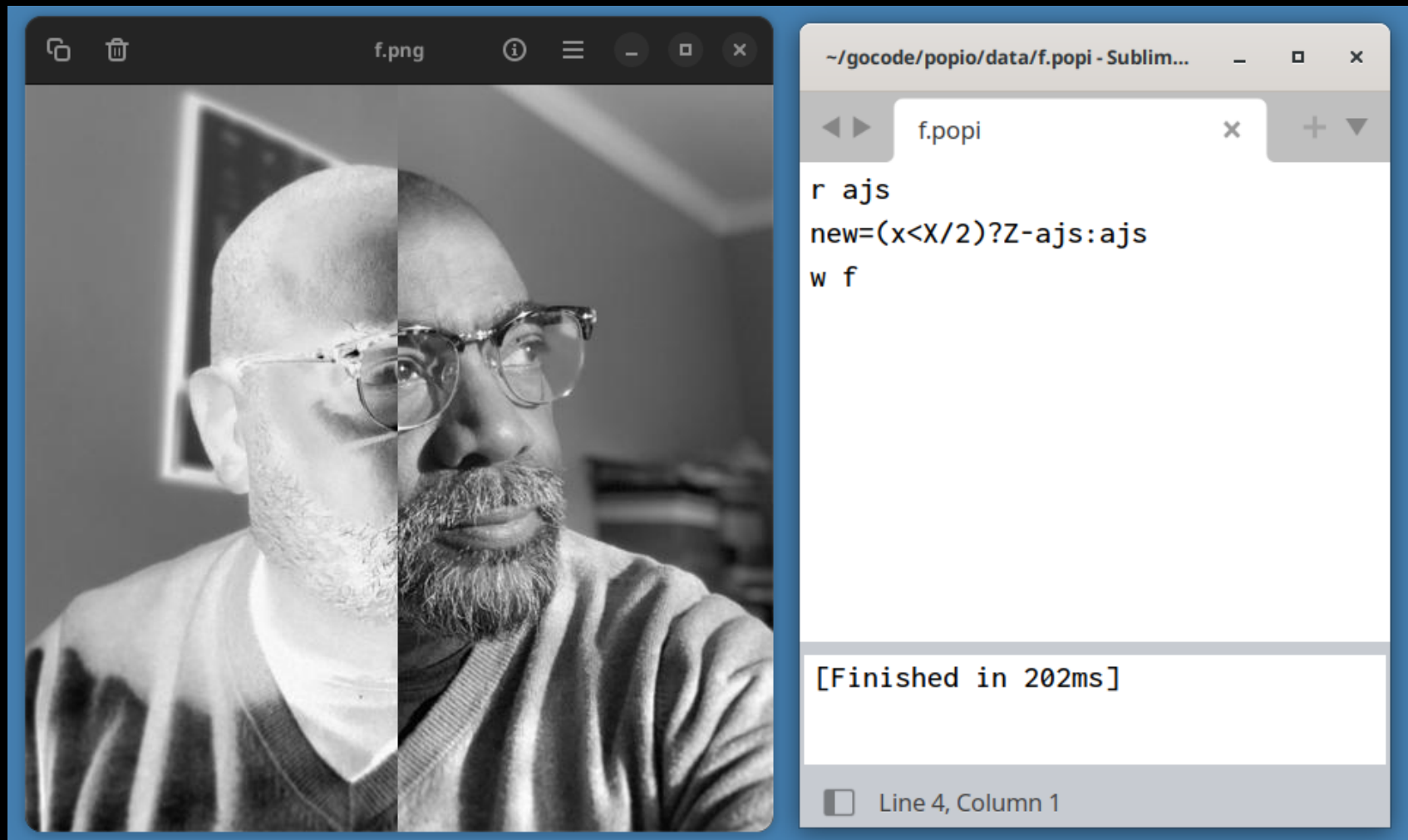


```
~/gocode/popio/data/f.popi - Sublim...  
f.popi  
r ajs  
new=ajs  
w f  
[Finished in 164ms]  
Line 2, Column 8
```

Editor and Image



Update and re-build



Building popi

Go to <https://www.netlib.com/popi/>, download bundle and face1.uu

```
$ sh bundle                # expand shell archive
$ uudecode face1.uu        # decode image to raw format
# change DEF_X and DEF_Y in popi.h to specify image size
$ gcc -std=c89 -o popi *.c -lm # build popi
$ ./popi                   # run popi
-> r face1
-> new=face1
-> w f
-> q
```



face1

```
$ popio -export -width 248 -height 248 < f > f.png
$ open f.png
```