Python Pillow - Image Sequences

The Python Imaging Library (PIL) contains some basic support for Image sequences (animation formats). FLI/FLC, GIF and a few experimental formats are the supported sequence formats. TIFF files can contain more than one frame as well.

Opening a sequence file, PIL automatically loads the first frame in the sequence. To move between different frames, you can use the seek and tell methods.

from PIL import Image

img = Image.open('bird.jpg')

#Skip to the second frame

img.seek(1)

try:

while 1:

img.seek(img.tell() + 1)

#do\_something to img

except EOFError:

#End of sequence

pass

Output

raise EOFError

EOFError

As we can see above, you’ll get an EOFError exception when the sequence ends.

Most drivers in the latest version of library only allow you to seek to the next frame (as in above example), to rewind the file, you may have to reopen it.

A sequence iterator class

class ImageSequence:

def \_\_init\_\_(self, img):

self.img = img

def \_\_getitem\_\_(self, ix):

try:

if ix:

self.img.seek(ix)

return self.img

except EOFError:

raise IndexError # end of sequence

for frame in ImageSequence(img):

# ...do something to frame...