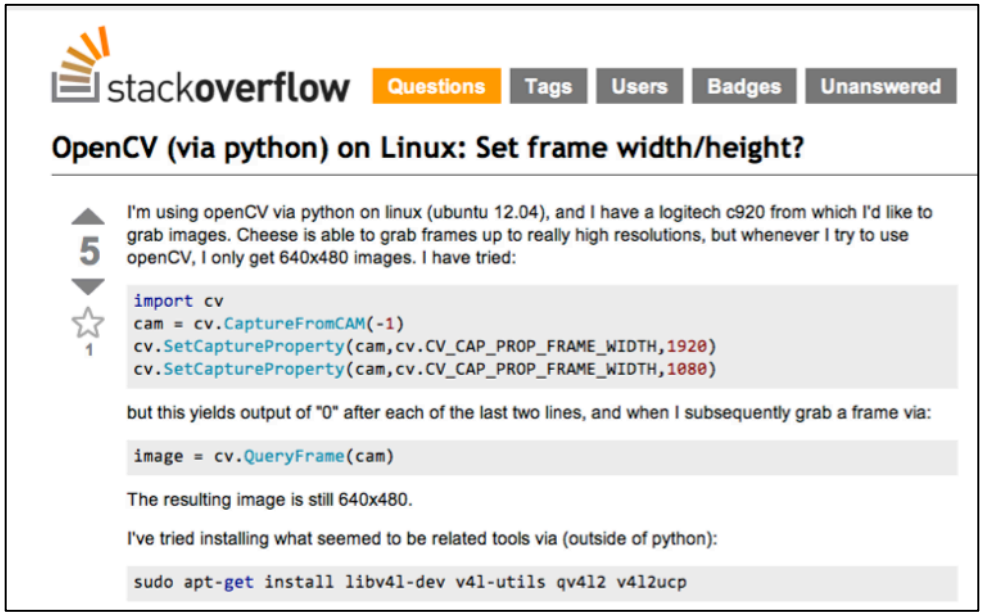
CASE STUDY: DESIGNING FOR COLLECTIVE GOOD

Prof. Kevin Werbach
@kwerb

(All quotes from Co-founder Jeff Atwood)

http://www.codinghorror.com/blog/2011/10/the-gamification.html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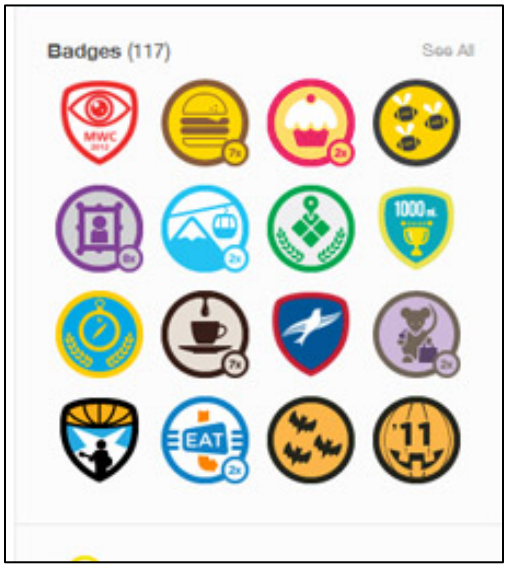
OpenCV (via python) on Linux: Set frame width/height?
5
1
I'm using openCV via python on linux (ubuntu 12.04), and I have a logitech c920 from which I'd like to grab images. Cheese is able to grab frames up to really high resolutions, but whenever I try to use openCV, I only get 640x480 images. I have tried:
import cv
cam = cv.CaptureFromCAM(-1)
cv.SetCaptureProperty(cam,cv.CV_CAP_PROP_FRAME_WIDTH,1920)
cv.SetCaptureProperty(cam,cv.CV_CAP_PROP_FRAME_WIDTH,1080)
but this yields output of "0" after each of the last two lines, and when I subsequently grab a frame via:
image = cv.QueryFrame(cam)
The resulting image is still 640x480.
I've tried installing what seemed to be related tools via (outside of python):
sudo apt-get install libv4l-dev v4l-utils qv4l2 v4l2ucp

“The field of programming is almost by definition one of constant learning.

Programming is supposed to be fun....”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2

From the docs,

> The function cvSetCaptureProperty sets the specified property of video capturing. Currently the function supports only video files: CV_CAP_PROP_POS_MSEC, CV_CAP_PROP_POS_FRAMES, CV_CAP_PROP_POS_AVI_RATIO .
>
> NB This function currently does nothing when using the latest CVS download on linux with FFMPEG (the function contents are hidden if 0 is used and returned).

share | improve this answer

edited 12 hours ago
blahdiblah
9,354 ●5 ●16 ●42

answered yesterday
Babu
204 ●9

feedback

1

Not sure if it works, but you can try to force the parameters to your values after you instantiate camera object:

```
import cv
cam = cv.CaptureFromCAM(-1)

os.system("v4l2-ctl --set-fmt-video=width=1920,height=1080,pixelformat=1")
os.system("v4l2-ctl --set-parm=30")

image = cv.QueryFrame(cam)
```

That's a bit hacky, so expect a crash.

share | improve this answer

edited Jul 17 at 12:59

answered Jul 17 at 12:51
vasile
4,523 ●2 ●16

Good idea, but no luck. When I try the os.system() calls, I get print-out that says `VIDIOC_S_FMT: failed: Device or resource busy` , which suggests to me that when `cam = cv.CaptureFromCAM(-1)` is called, opencv locks the camera as a resource, preventing v4l2-ctl from modifying it. – Mike Jul 17 at 13:15

hmmm, something I should have expected... You can try working on OpenCV code, to see what commands it sends to the camera, and what command should be sent in order to work. It may be that a simple one-line change in OpenCV will make it work. – vasile Jul 17 at 13:23

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This question has an open bounty worth +100 reputation from Mike ending in 19 minutes.

This question has not received enough attention.

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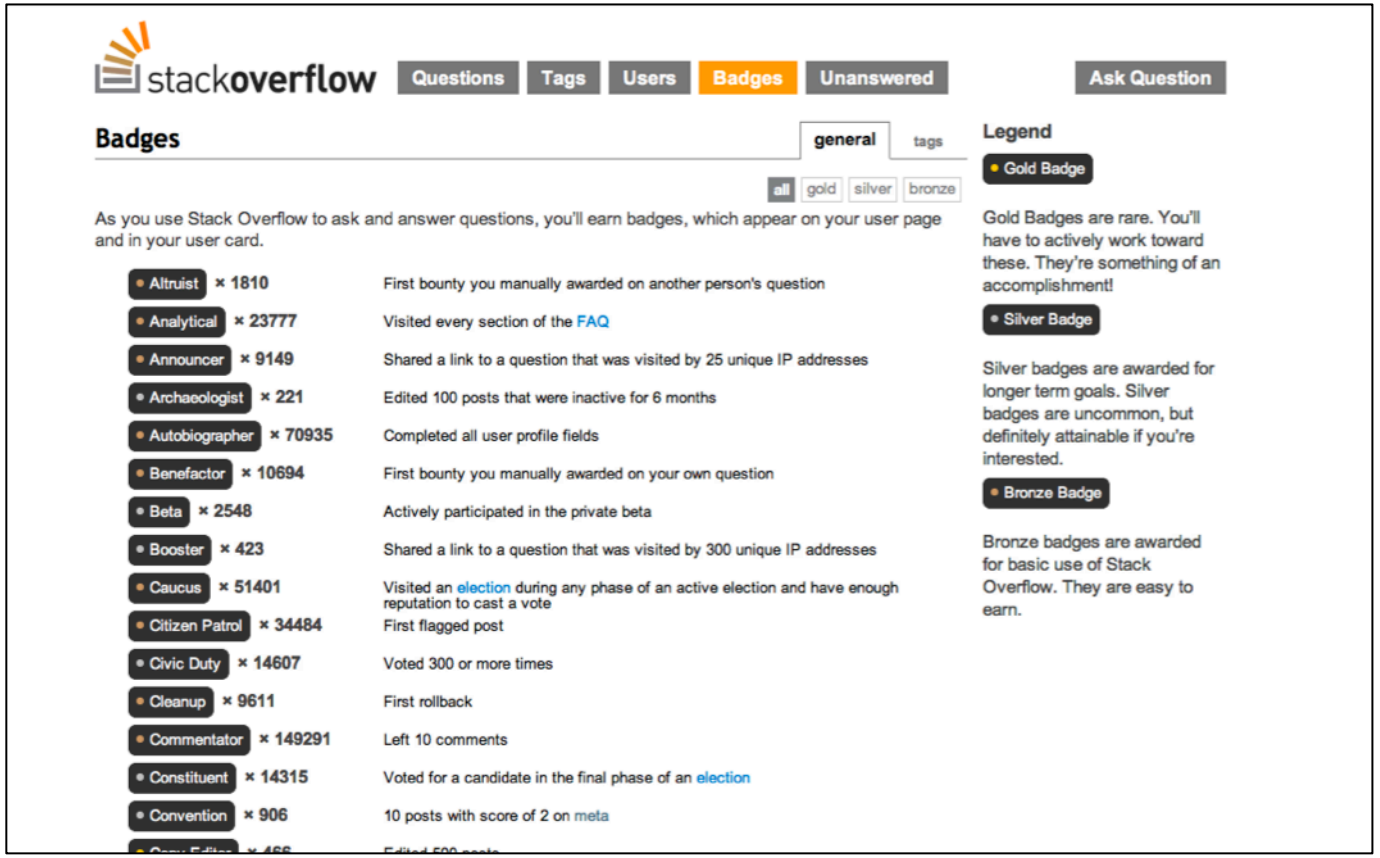
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Autobiographer × 70935
Completed all user profile fields
Benefactor × 10694
First bounty you manually awarded on your own question
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Booster × 423
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Caucus × 51401
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Citizen Patrol × 34484
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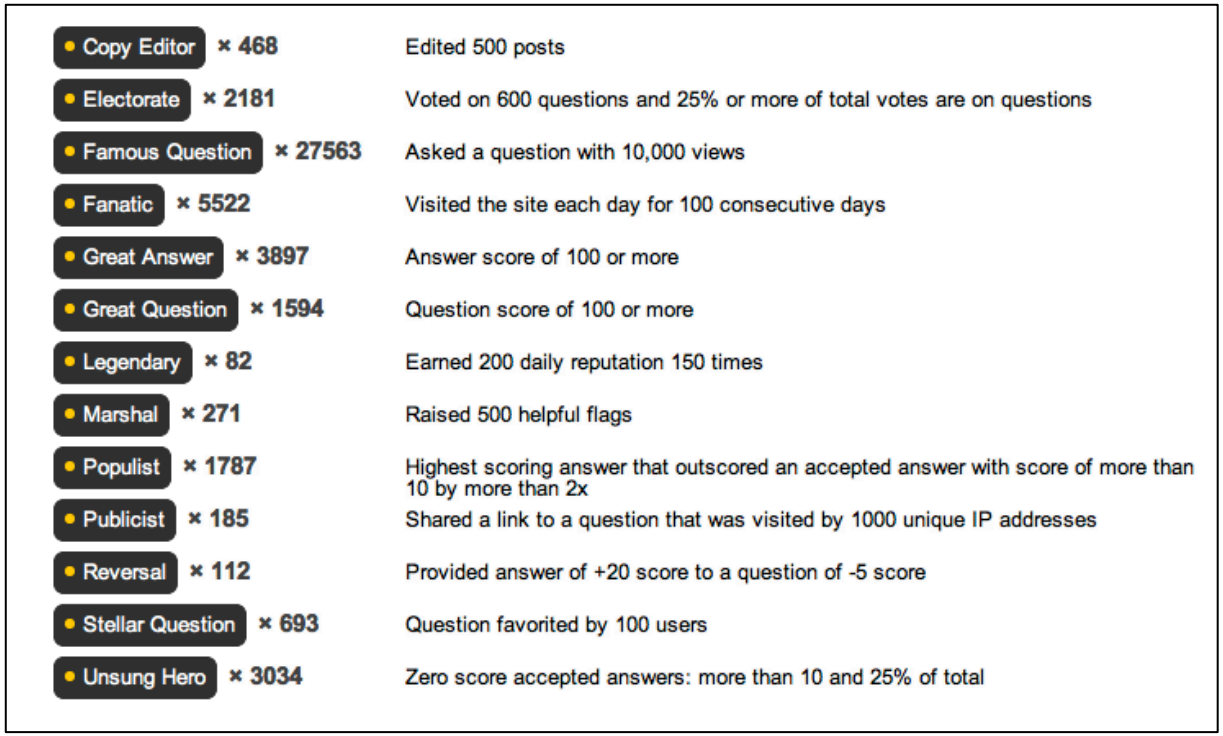
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Reversal × 112
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Stellar Question × 693
Question favorited by 100 users
Unsung Hero × 3034
Zero score accepted answers: more than 10 and 25% of total

“[A]ll the gaming elements are there in service of a higher purpose…. I believe it ultimately helps me become more knowledgeable and a better communicator while also improving the very fabric of the web for everyone.”