

## Assignment 1

### Questions and Answers:

1. The processing time for one video frame or image:
  - The average processing time is 30ms but I've noticed that when there are big movements in the scene the processing time increases.Examples of processing times without much movement (in ms):  
27.40311622619629  
33.38623046875  
33.73837471008301  
28.25927734375  
32.119035720825195  
35.07041931152344
2. How does the processing time change when you add the bright spot detection?
  - It remains pretty much the same, I didn't notice any big difference.
3. Is the processing time identical when you do not display the image?
  - Yes, it remains pretty much identical
4. How does your for-loop implementation compare to the built-in function?
  - It is way slower, going from 30 FPS to 1-2 FPS
5. Moving your hand in front of the camera, estimate the latency between image capture and display:
  - It is really small but you can notice some peaks, such as (in seconds):  
0.04887819290161133  
0.012323141098022461  
0.017754793167114258  
0.03225541114807129  
0.06514978408813477  
0.027096271514892578
6. Is the latency different when capturing from a mobile phone?
  - The trend is the same of the computer camera (in seconds):  
0.05127692222595215  
0.01605987548828125  
0.029509544372558594  
0.05564761161804199  
0.018413782119750977  
0.029684782028198242  
0.04892849922180176