nom du projet	langage	features	drawbacks	lien
TheRaspberryPiGuy		update and upgrade raspbian use our arrow keys to navigate to he camera option 2 commandes: raspistill => les options(on peut les changer) raspistill -o image.jpg => to take a photo (5s) raspivid=> les options raspivid -o testvideo.h264 -t 10000=>(10 s of high quality HD video immediately /no sound)		https://www.youtube.com/watch?v=T8T6S5eFpqE&t=57s
Hacker House	puthon	sudo rasp-config -> enter click on camera ->enable the camera=> configurer cam raspistill -o "image.jpg"=> the camera works or not (install OpenCV on our Raspberry Pi) cd ~ -> source ~/. profile ->workon cv https://github.com/HackerHouseYT/Smart-Security-Camera -> clone or download ++: mail.py: on doit changer l'email !! gmail (envoi d mail : detects an object)		https://www.youtube.com/watch?v=Y2QFu-tTvTI
the pi hut		**raspistill** is a command line application that allows you to capture images with your camera module		https://thepihut.com/blogs/raspberry-pi-tutorials/16021420-how-to-install-use-the-raspberry-pi-camera
		To capture a 10 second video with your Raspberry Pi camera module, run "raspivid -o video.h264 -t 10000		
picamera read the docs	python	supports Python’s buffer protocol (including numpy’s ndarray).		http://picamera.readthedocs.io/en/release-1.12/recipes2.html
		camera.resolution = (100, 100) camera.framerate = 24 time.sleep(2) output = np.empty((112 * 128 * 3,), dtype=np.uint8) camera.capture(output, 'rgb')		
		Capturing to an OpenCV object		
		Unencoded image capture (YUV format)		
		camera.start_recording('foo.h264') camera.wait_recording(10) camera.capture('foo.jpg', use_video_port=True) camera.wait_recording(10) camera.stop_recording() The above code should produce a 20 second video with no dropped frames, and a still frame from 10 seconds into the video. Higher resolutions or non-JPEG image formats may still cause dropped frames (only JPEG encoding is hardware accelerated).		
GStreamer element for the Raspberry Pi camera module	C			https://github.com/rpicopter/gst-rpicamsrc

gimbal						https://github.com/dronecore/DroneCore/blob/develop/plugins/gimbal/gimbal.h

pen up your Raspberry Pi Camera module. Be aware that the camera can be damaged by static electricity. Before removing the camera from its grey anti-static bag, make sure you have discharged yourself by touching an earthed object (e.g. a radiator or PC Chassis).