

## nvidia-smi : CUDA 와 GPU Driver Version

↳ GPU 버전 + CUDA 설치 확인 가능

현재 서버의 Driver version은 410.104, CUDA Version은 10.0

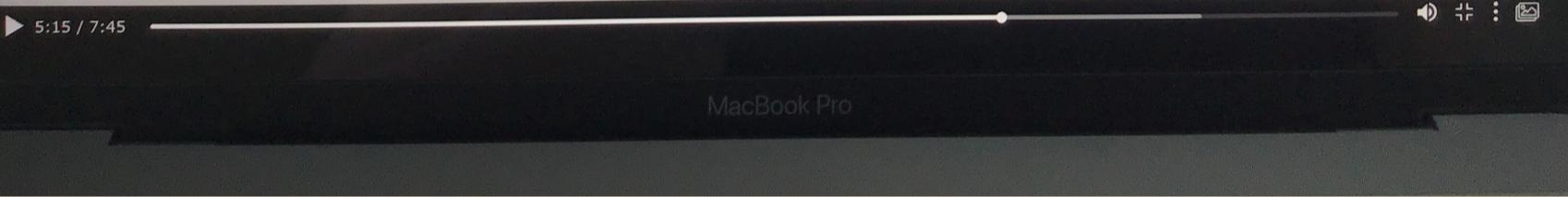
```
NVIDIA-SMI 410.104      Driver Version: 410.104      CUDA Version: 10.0
GPU Name Persistence-M| Bus-Id Disp.A | Volatile Uncorr. ECC
Fan Temp Perf Pwr:Usage/Cap| Memory-Usage | GPU-Util Compute M.
====+====+====+====+====+====+====+====+
0  Tesla P100-PCIE... Off | 00000000:00:04.0 Off | 0 |
N/A 44C   P0 29W / 250W | 0MiB / 16280MiB | 0% Default |
1  Tesla P100-PCIE... Off | 00000000:00:05.0 Off | 0 |
N/A 42C   P0 27W / 250W | 10MiB / 16280MiB | 7% Default |

카드별 GPU 메모리 사용량 카드별 GPU Utilization
```

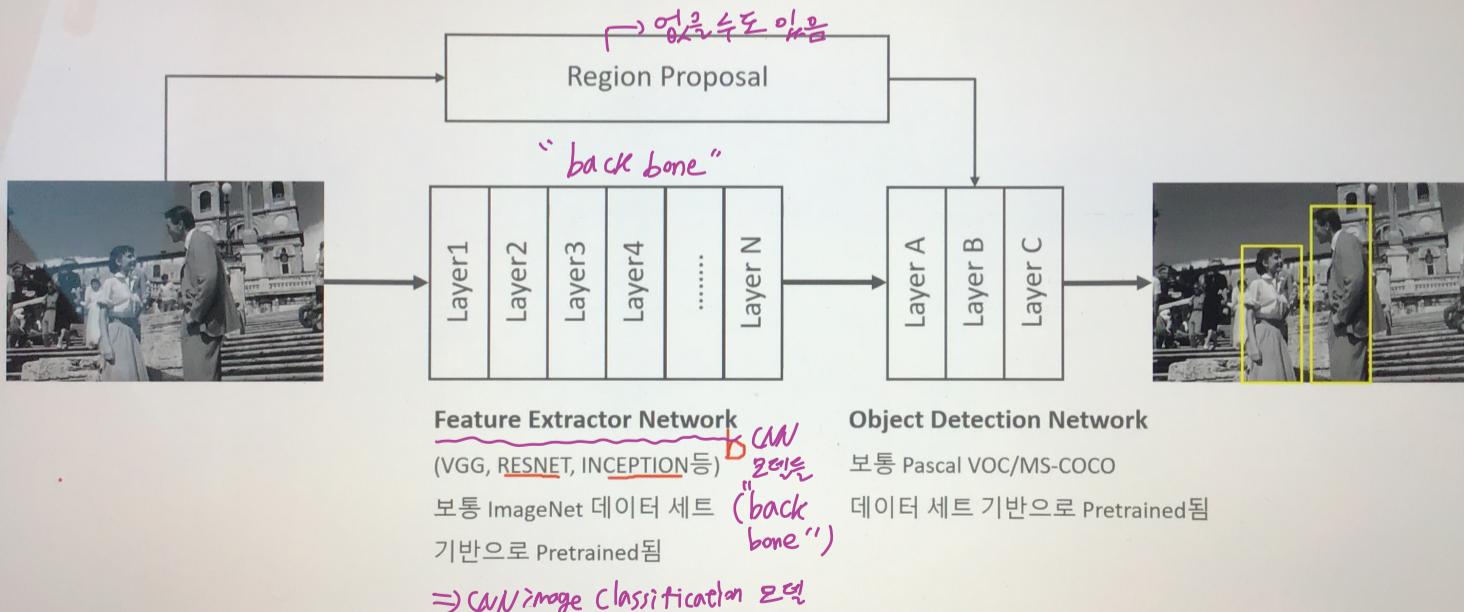
각 GPU 카드

CUDA Toolkit	Linux x86_64 Driver Version	Windows x86_64 Driver Version
CUDA 10.2.89	>= 440.33	>= 441.22
CUDA 10.1 (10.1.105 general release, and updates)	>= 418.39	>= 418.96
CUDA 10.0.130	>= 410.48	>= 411.31
CUDA 9.2 (9.2.148 Update 1)	>= 396.37	>= 398.26
CUDA 9.2 (9.2.88)	>= 396.26	>= 397.44
CUDA 9.1 (9.1.85)	>= 390.46	>= 391.29
CUDA 9.0 (9.0.76)	>= 384.81	>= 385.54
CUDA 8.0 (8.0.61 GA2)	>= 375.26	>= 376.51
CUDA 8.0 (8.0.44)	>= 367.48	>= 369.30
CUDA 7.5 (7.5.16)	>= 352.31	>= 353.66
CUDA 7.0 (7.0.28)	>= 346.46	>= 347.62

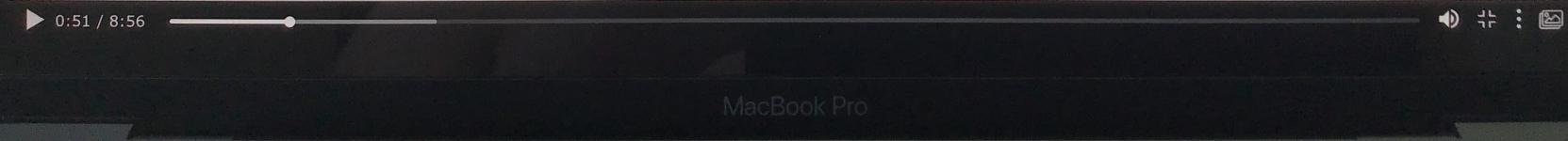
파이썬 딥러닝 컴퓨터 비전



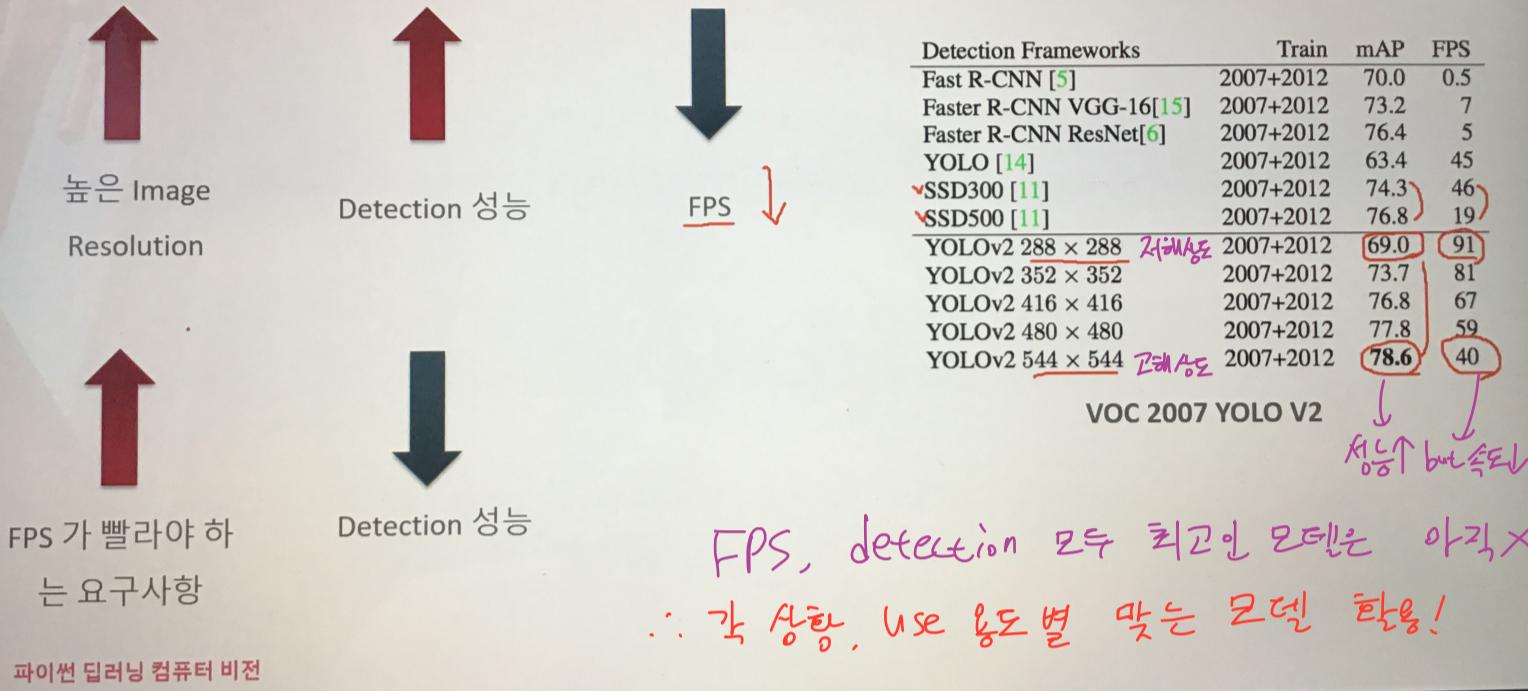
## Object Detection 네트워크 개요



파이썬 딥러닝 컴퓨터 비전



## Image Resolution, FPS, Detection 성능 상관 관계



MacBook Pro