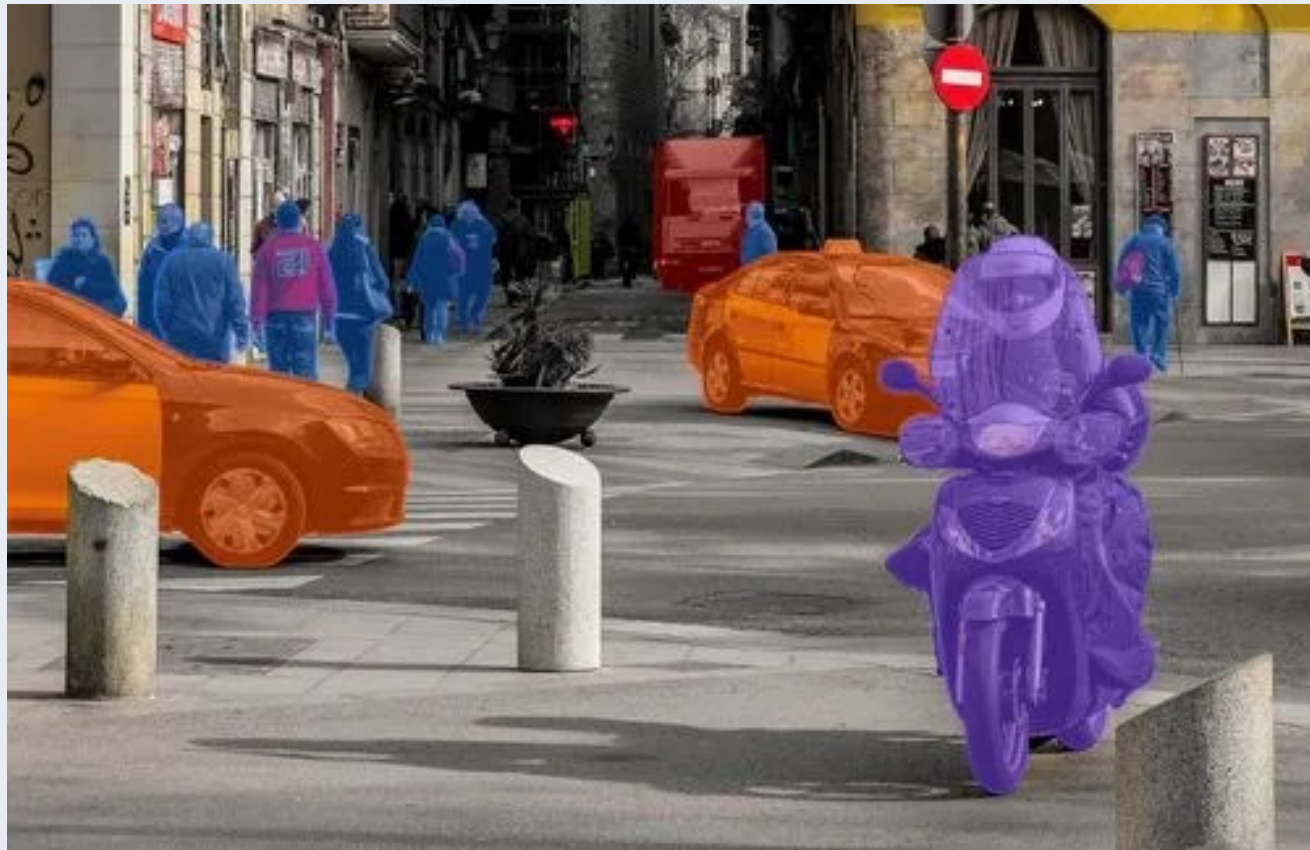


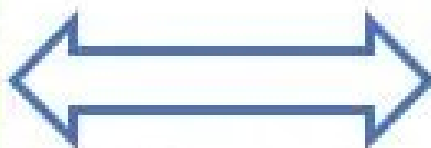
# 이미지 세그멘테이션



100



Input Image



1. Person
2. Road
3. Sky
4. House
5. Trees

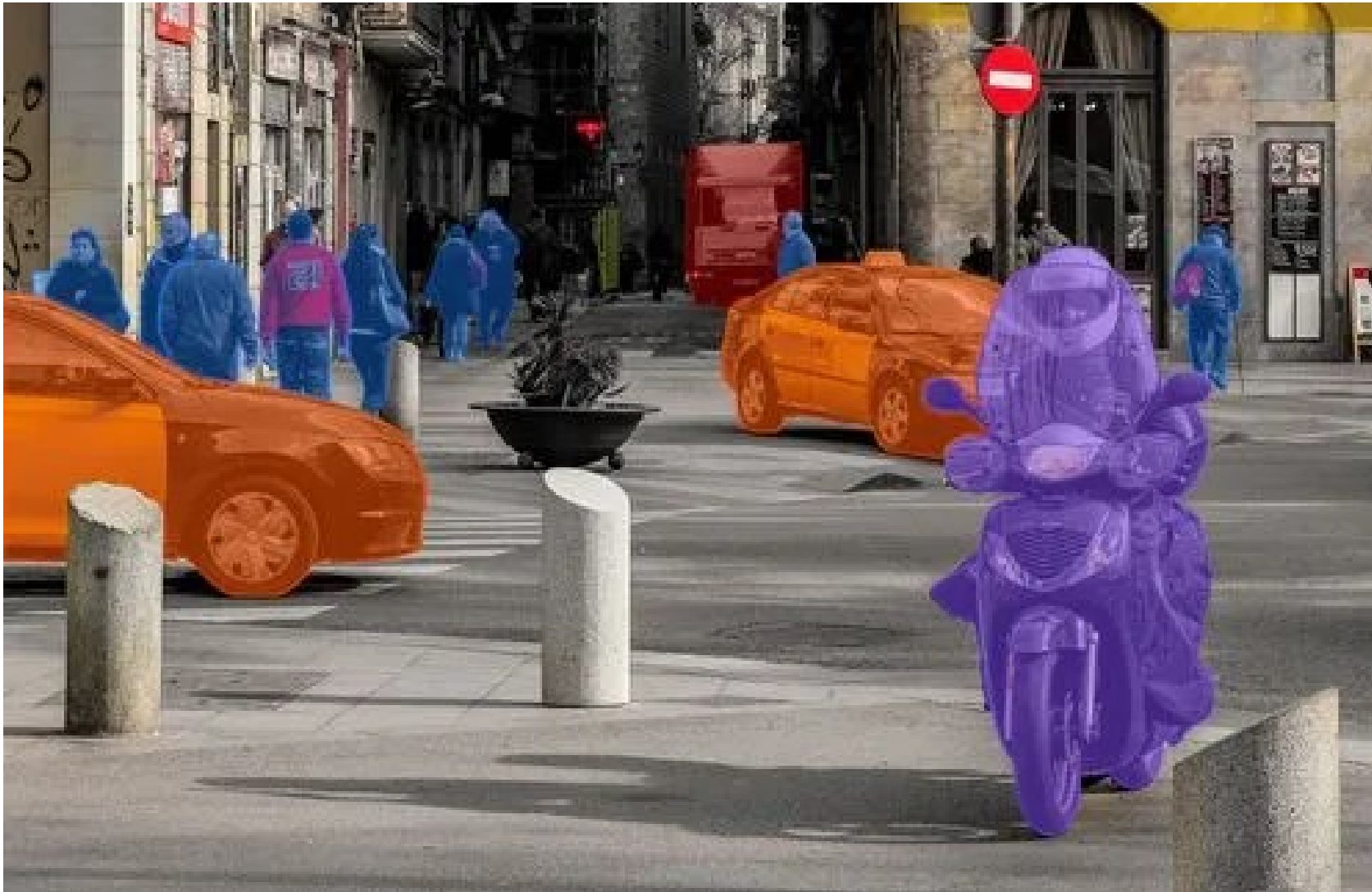


### Segmentation labels

# Semantic segmentation



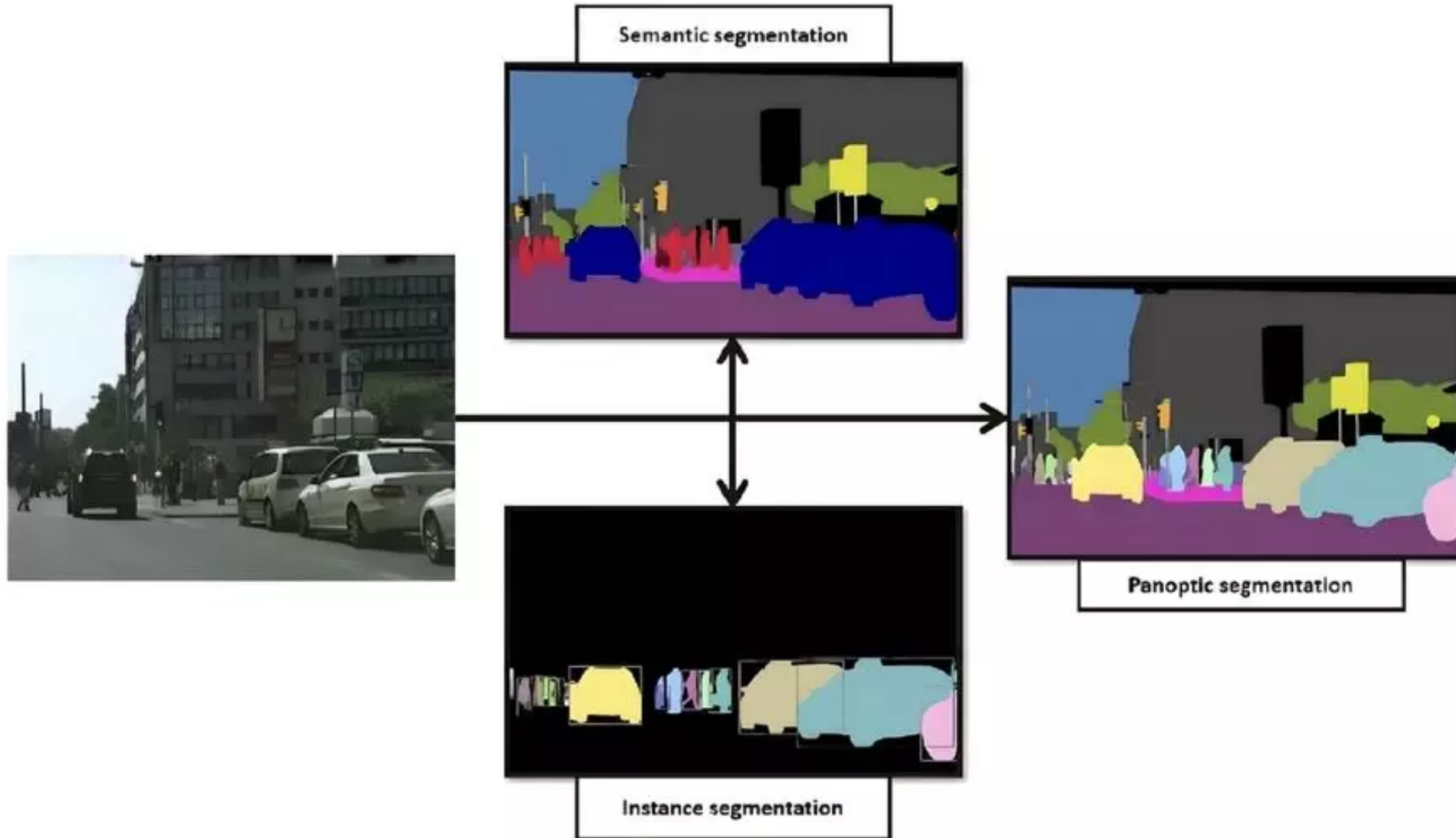
# Instance segmentation



# Panoptic segmentation



# Semantic segmentation vs. Instance segmentation





# 이미지 세그멘테이션 애플리케이션

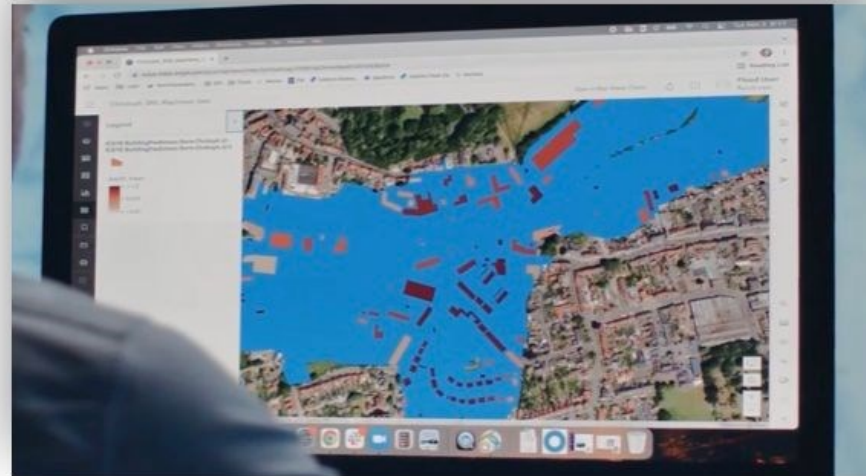
**Building Segmentation**



**Agriculture**



**Flood Monitoring**



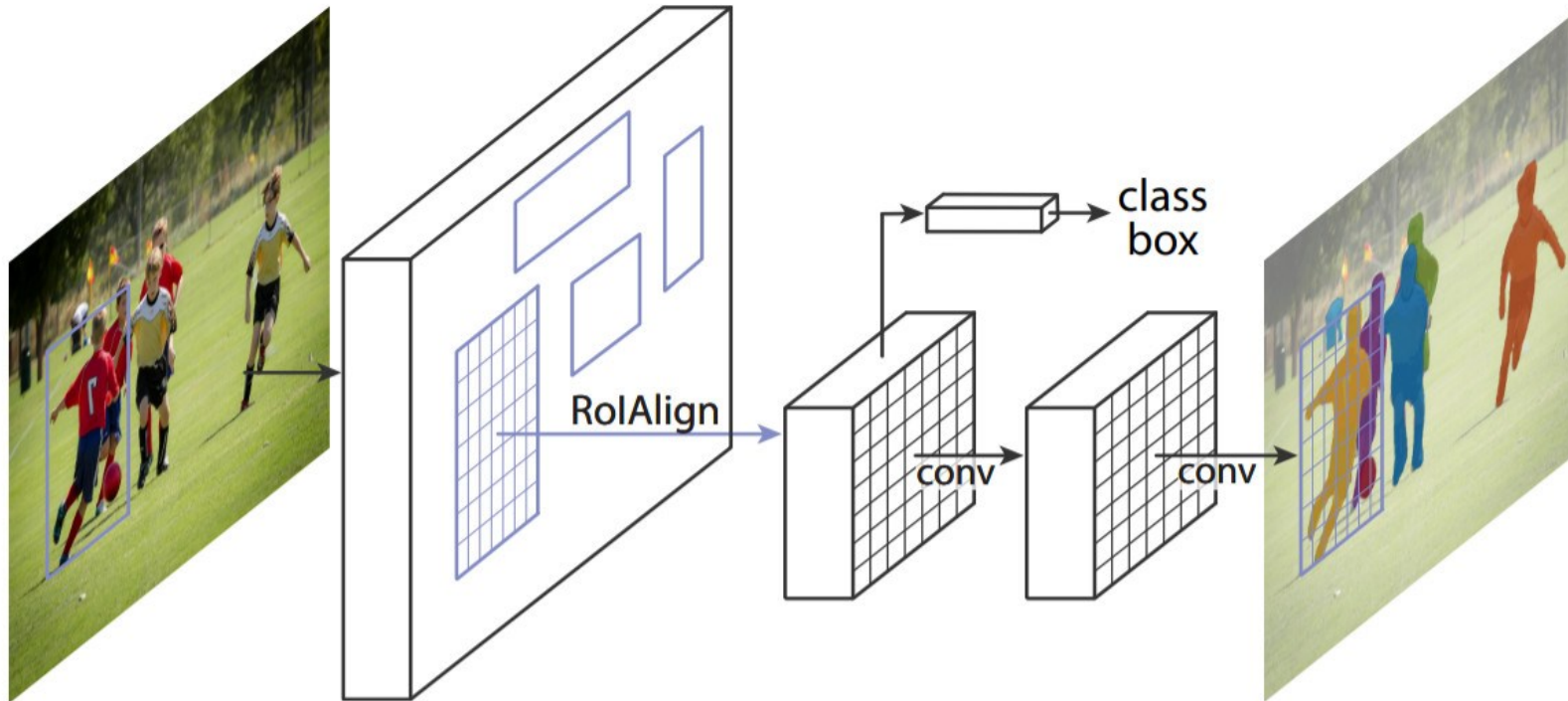
# 이미지 세그멘테이션 애플리케이션





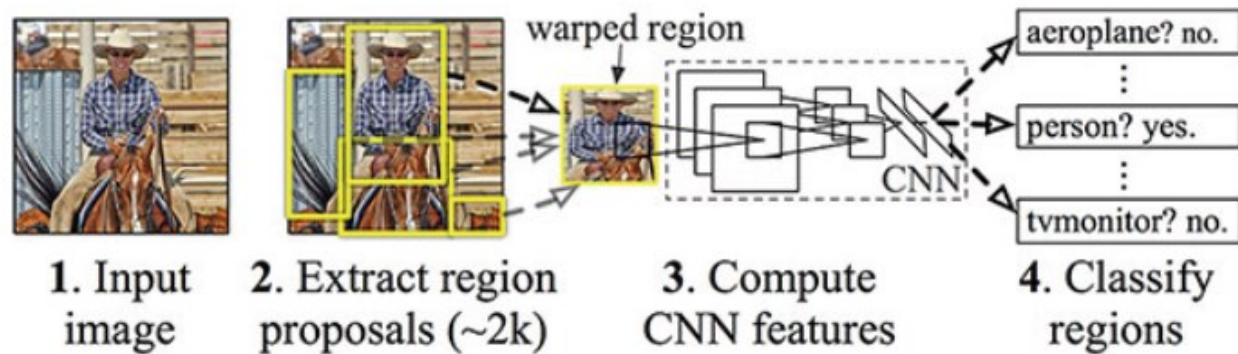
# Mask R-CNN

R-CNN(2013), Fast R-CNN(2015), Faster R-CNN(2015)을 기반으로 구축



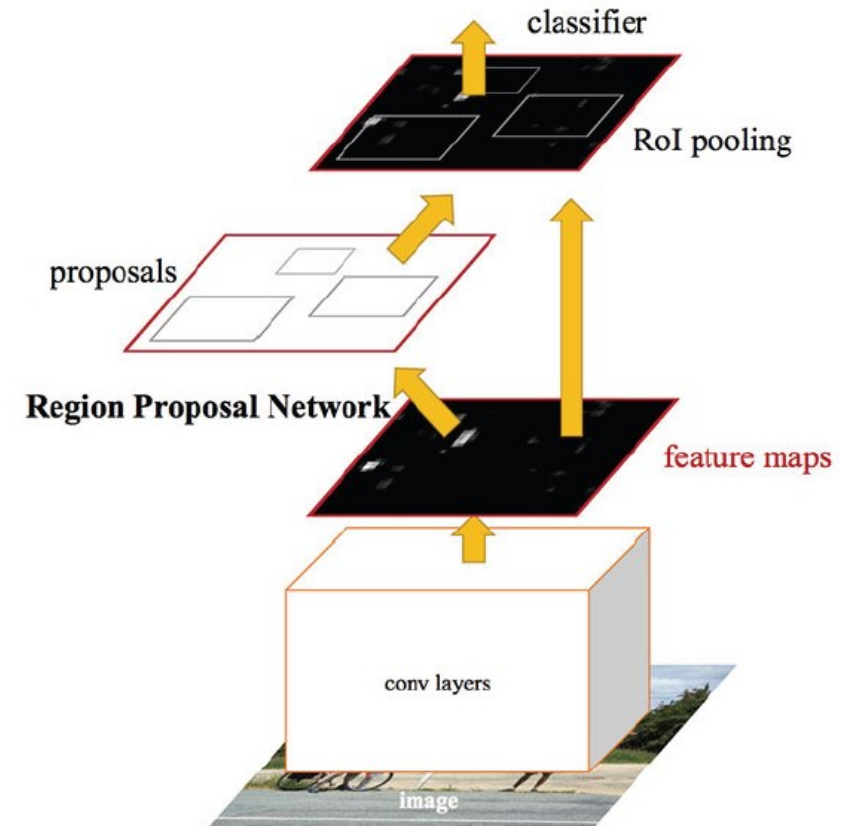
# R-CNN, FAST R-CNNs AND FASTER R-CNN

## Original R-CNN Architecture



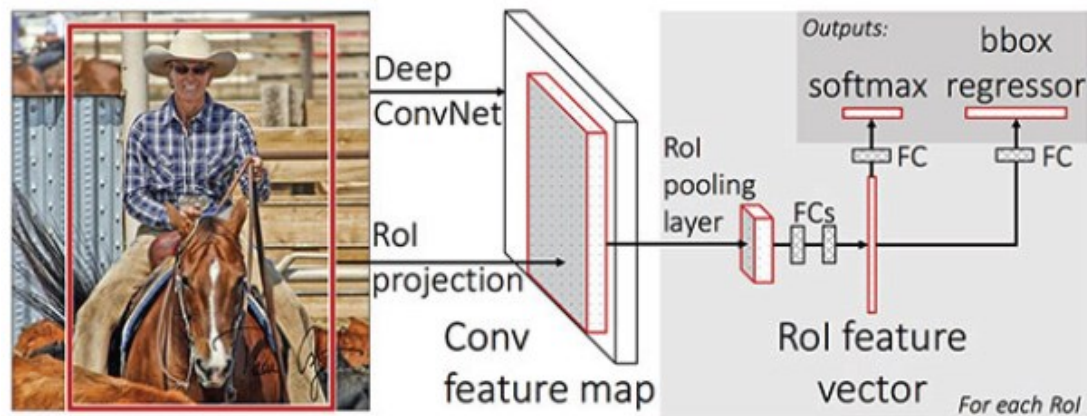
Source: [Girshick et al., 2013](#))

## Faster R-CNN Architecture



Source: [Girshick et al., 2015](#))

## Fast R-CNN Architecture



Source: [Girshick et al., 2015](#))

# 이미지 세그멘테이션 구현 실습



image\_segmentation.ipynb

# THANK YOU

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