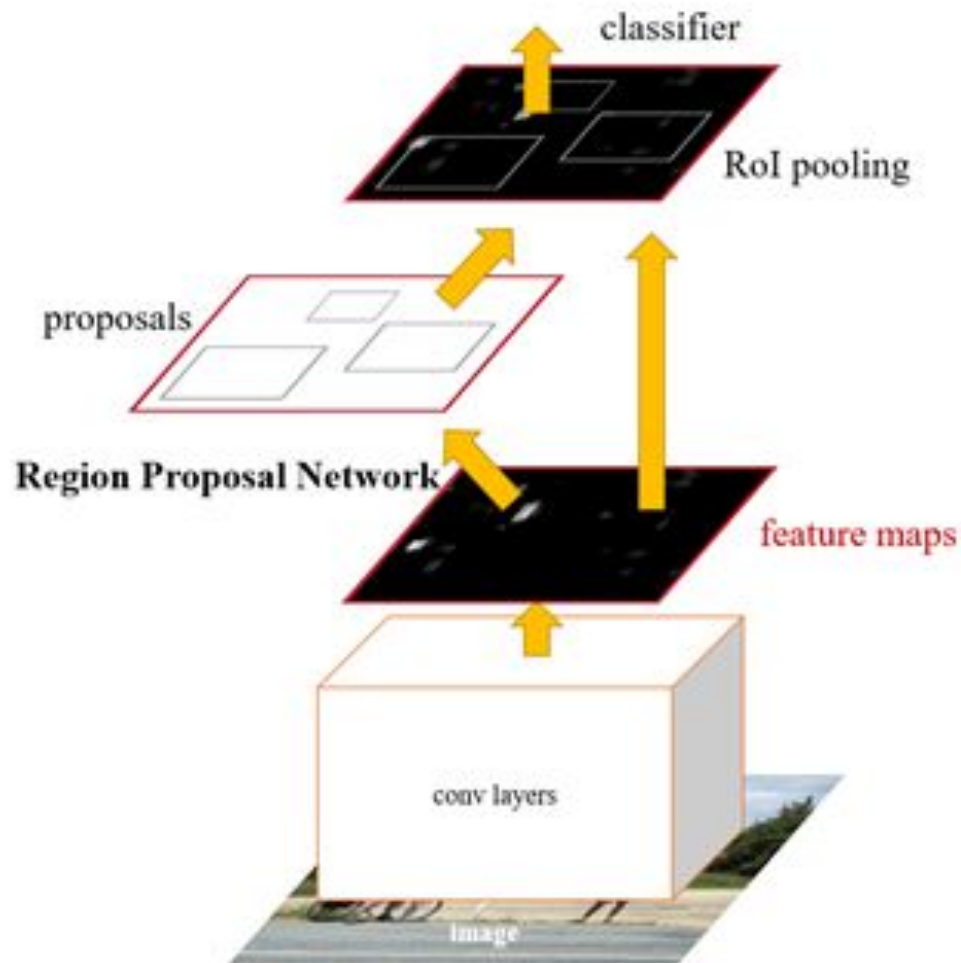
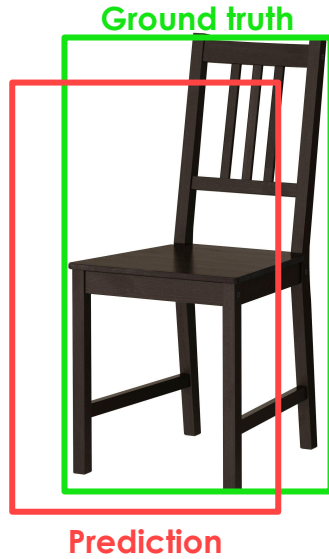


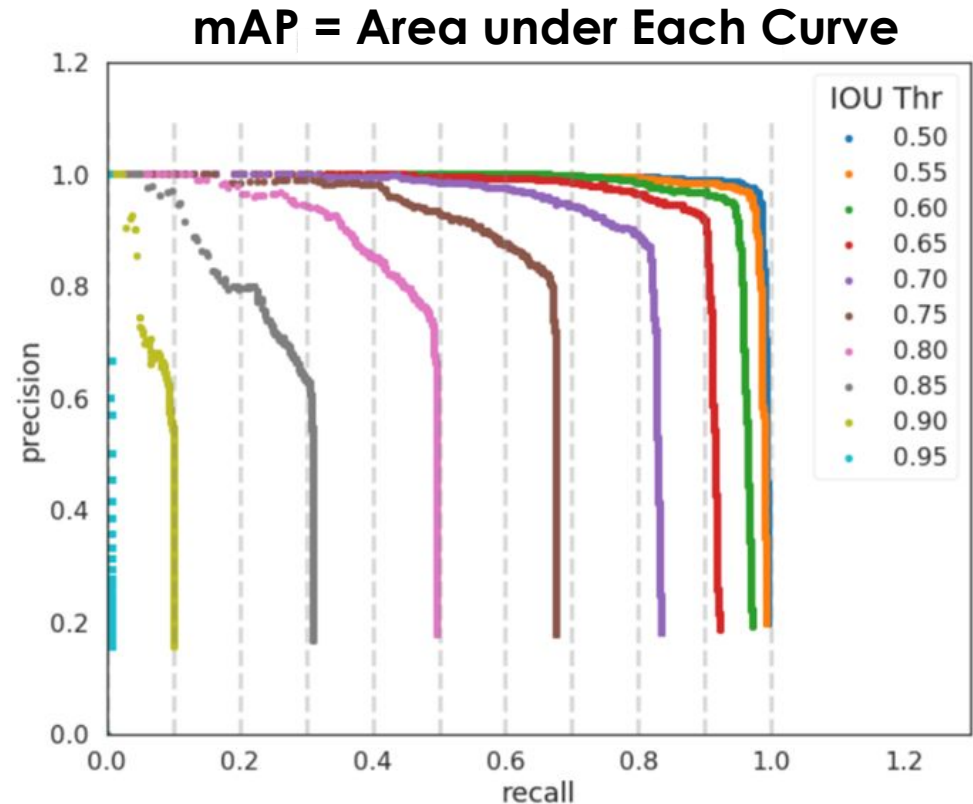
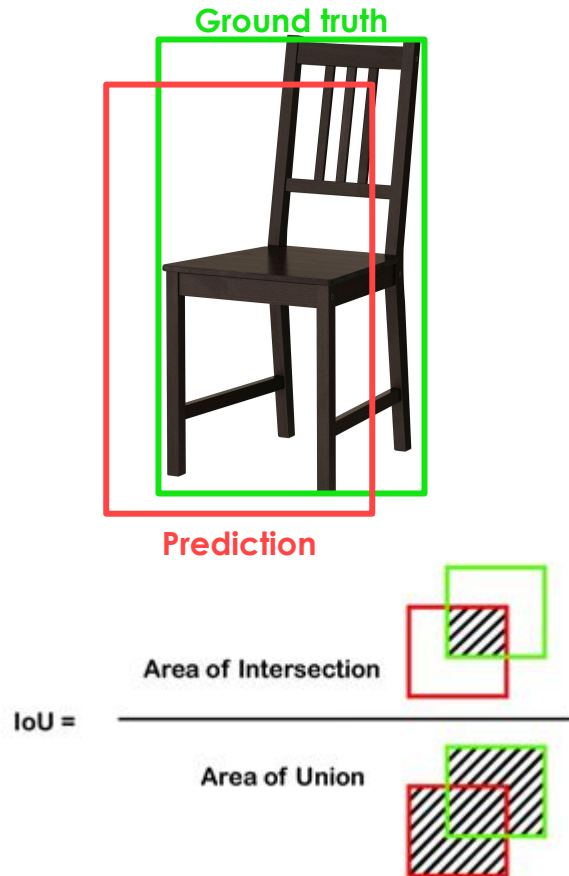
The Faster R-CNN Model Executes Two Tasks: Region Proposal and Object Classification



Used Mean Average Precision (mAP—Balances Recall and Precision) to Adjudicate Models



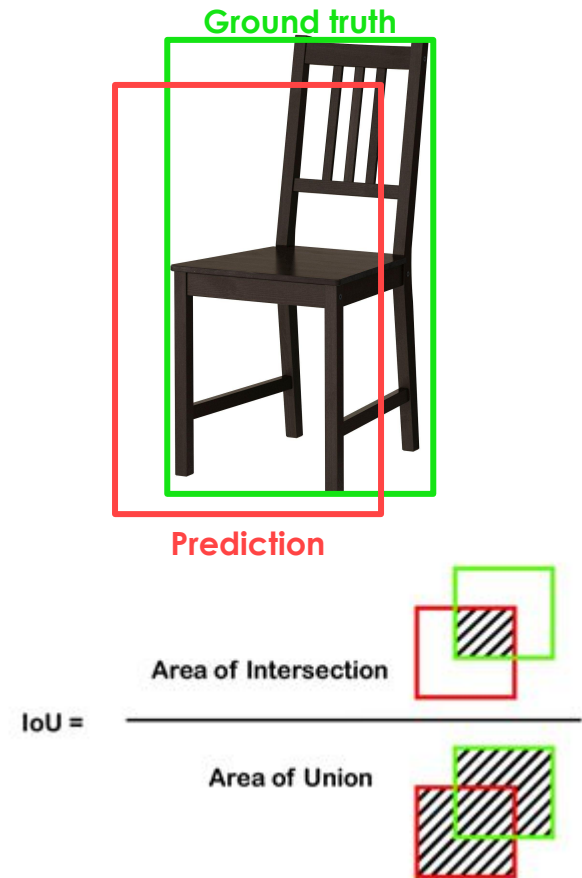
Used Mean Average Precision (mAP—Balances Recall and Precision) to Adjudicate Models



Precision falls as recall increases—at an IoU threshold, larger mAP values are better

Mean Average Precision (mAP) Accounts for an Object Detector's Dual Functions

- Identifying objects with as tight a bounding box as possible
- Correctly classifying objects
- Also want to balance false positive rate against false negative rate



mAP captures how precision falls as recall increases at different IoU thresholds

Mean Average Precision (mAP) Accounts for an Object Detector's Dual Functions

- Correctly classifying objects
- Identifying objects with as tight a bounding box as possible
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mAP captures how precision falls as recall increases at different IoU thresholds in different classes

Calculate mAP by Averaging Areas under Precision:Recall Curves at Different IoUs



Precision falls as recall increases—at an IoU threshold, larger mAP values are better