

# Microsoft COCO: Common Objects in Context

Tsung-Yi Lin, Michael Maire, Serge Belongie, Lubomir Bourdev, Ross Girshick, James Hays, Pietro Perona, Deva Paragiani, O. Lawrence Zitnick, Piotr Dollar

**Abstract**—We present a new dataset with the goal of advancing the state-of-the-art in object recognition by placing the problem of object recognition in the context of the broader question of scene understanding. This is achieved by gathering images of complex everyday scenes containing common objects in their natural context. Objects are labeled using our extensive segmentation to aid in precise object localization. The dataset contains photos of 81 objects that would be easily recognizable by a 3 year old. With a total of 2.5 million labeled instances in 320 images, the creation of our dataset from open sources proved useful. We implement our novel data interface for category detection, instance spotting and instance segmentation, we present a detailed statistical analysis of the dataset in comparison to PASCAL, ImageNet, and ILSV. Finally, we provide baseline performance analysis for bounding box and segmentation detection results using a Multiscale Fast-RCNN.

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## 1 INTRODUCTION

One of the primary goals of computer vision is the understanding of visual scenes. Scene understanding involves numerous tasks including recognizing what objects are present, localizing the objects in 2D and 3D, determining the objects' and scene's attributes, characterizing relationships between objects and providing a semantic description of the scene. The current object class detection and detection datasets [1], [2], [3], [4] help us explore the first challenges related to scene understanding. For instance the ImageNet dataset [1], which currently is represented as a hierarchy of images, has recently enabled breakthroughs in both object classification and detection research [5], [6], [7]. The community has also created datasets containing object attributes [8], scene attributes [9], keypoints [10], and 3D scene information [11]. This leads us to the critical question: what datasets will best continue our advance towards our ultimate goal of scene understanding?

We introduce a new large-scale dataset that addresses three core research problems in scene understanding: detecting non-rigid scenes for non-rigid scene perception [12] of objects, contextualizing individual objects and the precise 3D localization of objects. For every category of objects, there exists an iconic view. For example, when performing a web-based image search for the object category "horse," the representative retrieved examples appear in profiles, unobstructed near the center of a easily composed photo. We posit that current recognition systems perform fairly well on scene views, but struggle to recognize objects otherwise – in the

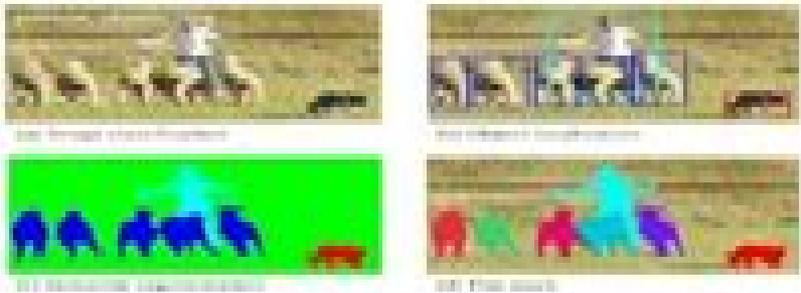


Fig. 1. While previous object recognition datasets have focused on (a) image classification, (b) object bounding box localization or (c) accuracy pixel-level segmentation, we focus on (d) segmenting individual object instances. We introduce a large, richly annotated dataset comprised of images depicting everyday everyday scenes of common objects in their natural context.

background, partially occluded, novel cluster [13] – or finding the composition of actual everyday scenes. We verify this experimentally: when evaluated on everyday scenes, models trained on our data perform better than those trained with prior datasets. A challenge in finding natural images that contain multiple objects. The identity of every object can only be resolved using context, due to small size or ambiguous appearance in the image. To push research in contextual reasoning, images depicting scenes [4] rather than objects is sufficient and necessary. Finally, we argue that detailed spatial understanding of object layout will be a core component of scene analysis. An object's spatial location can be defined accurately using a bounding box [14] or with a precise pixel-level segmentation [15], [16], [17]. An accurate segmentation, to evaluate either kind of localization performance it is essential for the dataset to have every instance of every object

1. T. Y. Lin and M. Maire are with Microsoft NYU<sup>1</sup> Tech and the Visual Computing Center, Princeton.  
2. M. Maire is with the Visual Computing Institute of Oregon.  
3. S. Belongie and R. Girshick are with Microsoft AI Research. The majority of our dataset was generated using a Python tool with following license: <https://github.com/microsoft/COCO/blob/master/LICENSE>.  
4. D. Paragiani and O. L. Zitnick are with Microsoft Research, Redmond.  
5. P. Dollar is with Google Research.  
6. P. Perona is with the University of California, Berkeley.  
7. O. L. Zitnick is with the University of California at Davis.

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