```
!pip install ultralytics

Collecting ultralytics
  Downloading ultralytics-8.3.107-py3-none-any.whl.metadata (37 kB)
Requirement already satisfied: numpy<=2.1.1,>=1.23.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (2.0.2)
Requirement already satisfied: matplotlib>=3.3.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (3.10.0)
Requirement already satisfied: opencv-python>=4.6.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (4.11.0.86)
Requirement already satisfied: pillow>=7.1.2 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (11.1.0)
Requirement already satisfied: pyyaml>=5.3.1 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (6.0.2)
Requirement already satisfied: requests>=2.23.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (2.32.3)
Requirement already satisfied: scipy>=1.4.1 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (1.14.1)
Requirement already satisfied: torch>=1.8.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics)
(2.6.0+cu124)
Requirement already satisfied: torchvision>=0.9.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics)
(0.21.0+cu124)
Requirement already satisfied: tqdm>=4.64.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (4.67.1)
Requirement already satisfied: psutil in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (5.9.5)
Requirement already satisfied: py-cpuinfo in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (9.0.0)
Requirement already satisfied: pandas>=1.1.4 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (2.2.2)
Requirement already satisfied: seaborn>=0.11.0 in
/usr/local/lib/python3.11/dist-packages (from ultralytics) (0.13.2)
Collecting ultralytics-thop>=2.0.0 (from ultralytics)
  Downloading ultralytics_thop-2.0.14-py3-none-any.whl.metadata (9.4
kB)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.11/dist-packages (from matplotlib>=3.3.0-
>ultralytics) (1.3.1)
Requirement already satisfied: cycler>=0.10 in
/usr/local/lib/python3.11/dist-packages (from matplotlib>=3.3.0-
>ultralytics) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
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>ultralytics) (4.57.0)
Requirement already satisfied: kiwisolver>=1.3.1 in
/usr/local/lib/python3.11/dist-packages (from matplotlib>=3.3.0-
>ultralytics) (1.4.8)
Requirement already satisfied: packaging>=20.0 in
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/usr/local/lib/python3.11/dist-packages (from matplotlib>=3.3.0-
>ultralytics) (24.2)
Requirement already satisfied: pyparsing>=2.3.1 in
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>ultralytics) (3.2.3)
Requirement already satisfied: python-dateutil>=2.7 in
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>ultralytics) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in
/usr/local/lib/python3.11/dist-packages (from pandas>=1.1.4-
>ultralytics) (2025.2)
Requirement already satisfied: tzdata>=2022.7 in
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>ultralytics) (2025.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.23.0-
>ultralytics) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.23.0-
>ultralytics) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.23.0-
>ultralytics) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.11/dist-packages (from requests>=2.23.0-
>ultralytics) (2025.1.31)
Requirement already satisfied: filelock in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (3.18.0)
Requirement already satisfied: typing-extensions>=4.10.0 in
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>ultralytics) (4.13.1)
Requirement already satisfied: networkx in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (3.4.2)
Requirement already satisfied: jinja2 in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (3.1.6)
Requirement already satisfied: fsspec in
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>ultralytics) (2025.3.2)
Collecting nvidia-cuda-nvrtc-cu12==12.4.127 (from torch>=1.8.0-
>ultralytics)
  Downloading nvidia_cuda_nvrtc_cu12-12.4.127-py3-none-
manylinux2014_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-cuda-runtime-cu12==12.4.127 (from torch>=1.8.0-
>ultralytics)
  Downloading nvidia_cuda_runtime_cu12-12.4.127-py3-none-
manylinux2014_x86_64.whl.metadata (1.5 kB)
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Collecting nvidia-cuda-cupti-cu12==12.4.127 (from torch>=1.8.0-
>ultralytics)
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Collecting nvidia-curand-cu12==10.3.5.147 (from torch>=1.8.0-
>ultralytics)
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manylinux2014_x86_64.whl.metadata (1.6 kB)
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manylinux2014_x86_64.whl.metadata (1.6 kB)
Requirement already satisfied: nvidia-cusparselt-cu12==0.6.2 in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (0.6.2)
Requirement already satisfied: nvidia-nccl-cu12==2.21.5 in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (2.21.5)
Requirement already satisfied: nvidia-nvtx-cu12==12.4.127 in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (12.4.127)
Collecting nvidia-nvjitlink-cu12==12.4.127 (from torch>=1.8.0-
>ultralytics)
  Downloading nvidia_nvjitlink_cu12-12.4.127-py3-none-
manylinux2014_x86_64.whl.metadata (1.5 kB)
Requirement already satisfied: triton==3.2.0 in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (3.2.0)
Requirement already satisfied: sympy==1.13.1 in
/usr/local/lib/python3.11/dist-packages (from torch>=1.8.0-
>ultralytics) (1.13.1)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in
/usr/local/lib/python3.11/dist-packages (from sympy==1.13.1-
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>torch>=1.8.0->ultralytics) (1.3.0)
Requirement already satisfied: six>=1.5 in
/usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.7-
>matplotlib>=3.3.0->ultralytics) (1.17.0)
Requirement already satisfied: MarkupSafe>=2.0 in
/usr/local/lib/python3.11/dist-packages (from jinja2->torch>=1.8.0-
>ultralytics) (3.0.2)
Downloading ultralytics-8.3.107-py3-none-any.whl (974 kB)
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anylinux2014_x86_64.whl (363.4 MB)
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0:00:00
e-cu12, nvidia-cuda-nvrtc-cu12, nvidia-cuda-cupti-cu12, nvidia-cublas-
cu12, nvidia-cusparse-cu12, nvidia-cudnn-cu12, nvidia-cusolver-cu12,
ultralytics-thop, ultralytics
  Attempting uninstall: nvidia-nvjitlink-cu12
    Found existing installation: nvidia-nvjitlink-cu12 12.5.82
    Uninstalling nvidia-nvjitlink-cu12-12.5.82:
      Successfully uninstalled nvidia-nvjitlink-cu12-12.5.82
  Attempting uninstall: nvidia-curand-cu12
    Found existing installation: nvidia-curand-cu12 10.3.6.82
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      Uninstalling nvidia-curand-cu12-10.3.6.82:
        Successfully uninstalled nvidia-curand-cu12-10.3.6.82
  Attempting uninstall: nvidia-cufft-cu12
      Found existing installation: nvidia-cufft-cu12 11.2.3.61
      Uninstalling nvidia-cufft-cu12-11.2.3.61:
        Successfully uninstalled nvidia-cufft-cu12-11.2.3.61
  Attempting uninstall: nvidia-cuda-runtime-cu12
      Found existing installation: nvidia-cuda-runtime-cu12 12.5.82
      Uninstalling nvidia-cuda-runtime-cu12-12.5.82:
        Successfully uninstalled nvidia-cuda-runtime-cu12-12.5.82
  Attempting uninstall: nvidia-cuda-nvrtc-cu12
      Found existing installation: nvidia-cuda-nvrtc-cu12 12.5.82
      Uninstalling nvidia-cuda-nvrtc-cu12-12.5.82:
        Successfully uninstalled nvidia-cuda-nvrtc-cu12-12.5.82
  Attempting uninstall: nvidia-cuda-cupti-cu12
      Found existing installation: nvidia-cuda-cupti-cu12 12.5.82
      Uninstalling nvidia-cuda-cupti-cu12-12.5.82:
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  Attempting uninstall: nvidia-cublas-cu12
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      Uninstalling nvidia-cublas-cu12-12.5.3.2:
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  Attempting uninstall: nvidia-cusparse-cu12
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      Uninstalling nvidia-cusparse-cu12-12.5.1.3:
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  Attempting uninstall: nvidia-cudnn-cu12
      Found existing installation: nvidia-cudnn-cu12 9.3.0.75
      Uninstalling nvidia-cudnn-cu12-9.3.0.75:
        Successfully uninstalled nvidia-cudnn-cu12-9.3.0.75
  Attempting uninstall: nvidia-cusolver-cu12
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        Successfully uninstalled nvidia-cusolver-cu12-11.6.3.83
Successfully installed nvidia-cublas-cu12-12.4.5.8 nvidia-cuda-cupti-
cu12-12.4.127 nvidia-cuda-nvrtc-cu12-12.4.127 nvidia-cuda-runtime-
cu12-12.4.127 nvidia-cudnn-cu12-9.1.0.70 nvidia-cufft-cu12-11.2.1.3
nvidia-curand-cu12-10.3.5.147 nvidia-cusolver-cu12-11.6.1.9 nvidia-
cusparse-cu12-12.3.1.170 nvidia-nvjitlink-cu12-12.4.127 ultralytics-
8.3.107 ultralytics-thop-2.0.14

from ultralytics import YOLO
import cv2
import os

model = YOLO("yolov5s.pt")

input_path = "car-detection.mp4"
output_path = "output_video.mp4"
```

```python
cap = cv2.VideoCapture(input_path)
width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
fps = cap.get(cv2.CAP_PROP_FPS)

fourcc = cv2.VideoWriter_fourcc(*'mp4v')
out = cv2.VideoWriter(output_path, fourcc, fps, (width, height))

while cap.isOpened():
    ret, frame = cap.read()
    if not ret:
        break

    results = model(frame)

    annotated_frame = results[0].plot()

    out.write(annotated_frame)

cap.release()
out.release()
```

```
PRO TIP 💡 Replace 'model=yolov5s.pt' with new 'model=yolov5su.pt'.
YOLOv5 'u' models are trained with
https://github.com/ultralytics/ultralytics and feature improved
performance vs standard YOLOv5 models trained with
https://github.com/ultralytics/yolov5.

Downloading
https://github.com/ultralytics/assets/releases/download/v8.3.0/yolov5
u.pt to 'yolov5su.pt'...

100%|██████████| 17.7M/17.7M [00:00<00:00, 83.4MB/s]


0: 384x640 (no detections), 444.7ms
Speed: 2.8ms preprocess, 444.7ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 482.3ms
Speed: 3.5ms preprocess, 482.3ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 486.6ms
Speed: 3.9ms preprocess, 486.6ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 482.1ms
Speed: 5.3ms preprocess, 482.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 461.3ms
Speed: 4.3ms preprocess, 461.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 445.8ms
Speed: 3.5ms preprocess, 445.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.3ms
Speed: 3.1ms preprocess, 291.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.5ms
Speed: 3.4ms preprocess, 298.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 313.8ms
Speed: 3.6ms preprocess, 313.8ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.0ms
Speed: 3.7ms preprocess, 301.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.8ms
Speed: 3.0ms preprocess, 293.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 322.9ms
Speed: 3.5ms preprocess, 322.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 274.9ms
Speed: 3.3ms preprocess, 274.9ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.6ms
Speed: 3.3ms preprocess, 294.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 284.3ms
Speed: 3.1ms preprocess, 284.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.7ms
Speed: 5.8ms preprocess, 299.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.1ms
Speed: 2.6ms preprocess, 290.1ms inference, 0.6ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.0ms
Speed: 3.5ms preprocess, 295.0ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.7ms
Speed: 3.2ms preprocess, 305.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.3ms
Speed: 3.1ms preprocess, 294.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 292.8ms
Speed: 3.8ms preprocess, 292.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 306.3ms
Speed: 3.1ms preprocess, 306.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 282.8ms
Speed: 2.7ms preprocess, 282.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.0ms
Speed: 3.6ms preprocess, 293.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.0ms
Speed: 3.3ms preprocess, 289.0ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.2ms
Speed: 3.6ms preprocess, 297.2ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.5ms
Speed: 3.5ms preprocess, 291.5ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.6ms
Speed: 3.3ms preprocess, 291.6ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.2ms
Speed: 3.5ms preprocess, 302.2ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 293.2ms
Speed: 2.9ms preprocess, 293.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 285.6ms
Speed: 3.3ms preprocess, 285.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.2ms
Speed: 3.5ms preprocess, 296.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.8ms
Speed: 2.9ms preprocess, 288.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 292.3ms
Speed: 3.7ms preprocess, 292.3ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.5ms
Speed: 3.6ms preprocess, 288.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.3ms
Speed: 2.9ms preprocess, 295.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.1ms
Speed: 2.8ms preprocess, 295.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 287.5ms
Speed: 3.7ms preprocess, 287.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 440.6ms
Speed: 2.8ms preprocess, 440.6ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 470.8ms
Speed: 3.6ms preprocess, 470.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 454.8ms
Speed: 3.6ms preprocess, 454.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 479.7ms
Speed: 3.8ms preprocess, 479.7ms inference, 1.0ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 477.1ms
Speed: 3.6ms preprocess, 477.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 377.1ms
Speed: 3.6ms preprocess, 377.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.4ms
Speed: 3.6ms preprocess, 291.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.6ms
Speed: 3.7ms preprocess, 300.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.6ms
Speed: 3.3ms preprocess, 290.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 282.1ms
Speed: 3.6ms preprocess, 282.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.8ms
Speed: 3.4ms preprocess, 300.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.2ms
Speed: 3.6ms preprocess, 289.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.8ms
Speed: 3.9ms preprocess, 294.8ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 283.8ms
Speed: 2.5ms preprocess, 283.8ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.9ms
Speed: 3.8ms preprocess, 298.9ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.3ms
Speed: 3.6ms preprocess, 297.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 291.5ms
Speed: 3.4ms preprocess, 291.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.5ms
Speed: 3.3ms preprocess, 302.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.5ms
Speed: 4.5ms preprocess, 295.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 person, 297.7ms
Speed: 3.5ms preprocess, 297.7ms inference, 1.5ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 person, 293.3ms
Speed: 3.5ms preprocess, 293.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 292.0ms
Speed: 3.5ms preprocess, 292.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 298.5ms
Speed: 2.8ms preprocess, 298.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 294.5ms
Speed: 5.4ms preprocess, 294.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 306.9ms
Speed: 3.2ms preprocess, 306.9ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.0ms
Speed: 3.2ms preprocess, 298.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.0ms
Speed: 3.3ms preprocess, 302.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 306.9ms
Speed: 3.5ms preprocess, 306.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 295.6ms
Speed: 3.2ms preprocess, 295.6ms inference, 1.0ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 300.2ms
Speed: 3.3ms preprocess, 300.2ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 317.1ms
Speed: 3.4ms preprocess, 317.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.3ms
Speed: 3.2ms preprocess, 288.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.9ms
Speed: 3.2ms preprocess, 296.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 307.9ms
Speed: 3.5ms preprocess, 307.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.5ms
Speed: 3.6ms preprocess, 296.5ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 293.0ms
Speed: 3.3ms preprocess, 293.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 296.5ms
Speed: 3.3ms preprocess, 296.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 403.4ms
Speed: 3.7ms preprocess, 403.4ms inference, 1.5ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 471.3ms
Speed: 3.6ms preprocess, 471.3ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 469.6ms
Speed: 3.5ms preprocess, 469.6ms inference, 1.3ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 449.9ms
Speed: 3.4ms preprocess, 449.9ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 1 cell phone, 476.7ms
Speed: 3.5ms preprocess, 476.7ms inference, 1.4ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 428.7ms
Speed: 3.6ms preprocess, 428.7ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 297.4ms
Speed: 3.5ms preprocess, 297.4ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 300.4ms
Speed: 3.9ms preprocess, 300.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 286.4ms
Speed: 4.0ms preprocess, 286.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 292.3ms
Speed: 3.5ms preprocess, 292.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 304.0ms
Speed: 3.8ms preprocess, 304.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 290.8ms
Speed: 3.1ms preprocess, 290.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 296.3ms
Speed: 3.4ms preprocess, 296.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 cell phone, 302.3ms
Speed: 3.3ms preprocess, 302.3ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 cell phone, 294.7ms
Speed: 3.3ms preprocess, 294.7ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 286.2ms
Speed: 3.5ms preprocess, 286.2ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 298.0ms
Speed: 4.1ms preprocess, 298.0ms inference, 1.0ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 303.0ms
Speed: 4.2ms preprocess, 303.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 293.9ms
Speed: 3.3ms preprocess, 293.9ms inference, 1.3ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 293.7ms
Speed: 3.6ms preprocess, 293.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 310.1ms
Speed: 3.5ms preprocess, 310.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 300.9ms
Speed: 3.3ms preprocess, 300.9ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 cell phone, 299.1ms
Speed: 3.4ms preprocess, 299.1ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 311.4ms
Speed: 3.2ms preprocess, 311.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 298.6ms
Speed: 3.5ms preprocess, 298.6ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 292.7ms
Speed: 3.4ms preprocess, 292.7ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 313.5ms
Speed: 3.1ms preprocess, 313.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 airplane, 292.4ms
Speed: 3.2ms preprocess, 292.4ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 296.6ms
Speed: 3.5ms preprocess, 296.6ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 1 car, 288.4ms
Speed: 3.6ms preprocess, 288.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.4ms
Speed: 3.6ms preprocess, 300.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 287.5ms
Speed: 3.3ms preprocess, 287.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.6ms
Speed: 3.2ms preprocess, 288.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.3ms
Speed: 3.7ms preprocess, 293.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.2ms
Speed: 3.7ms preprocess, 290.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 292.1ms
Speed: 3.6ms preprocess, 292.1ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.5ms
Speed: 3.2ms preprocess, 300.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 325.8ms
Speed: 3.3ms preprocess, 325.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 465.3ms
Speed: 3.5ms preprocess, 465.3ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 474.3ms
Speed: 3.6ms preprocess, 474.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 463.4ms
Speed: 3.7ms preprocess, 463.4ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 487.1ms
Speed: 4.1ms preprocess, 487.1ms inference, 1.0ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 456.4ms
Speed: 4.0ms preprocess, 456.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.1ms
Speed: 3.2ms preprocess, 294.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.7ms
Speed: 3.5ms preprocess, 290.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.3ms
Speed: 4.0ms preprocess, 297.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.3ms
Speed: 3.7ms preprocess, 296.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.4ms
Speed: 5.4ms preprocess, 291.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.2ms
Speed: 3.9ms preprocess, 291.2ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.6ms
Speed: 3.5ms preprocess, 297.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.0ms
Speed: 3.4ms preprocess, 305.0ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.7ms
Speed: 3.4ms preprocess, 293.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.3ms
Speed: 3.9ms preprocess, 301.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.8ms
Speed: 3.2ms preprocess, 302.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.1ms
```

```
Speed: 3.4ms preprocess, 295.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.2ms
Speed: 3.6ms preprocess, 294.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.0ms
Speed: 3.6ms preprocess, 295.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 307.9ms
Speed: 3.2ms preprocess, 307.9ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.5ms
Speed: 4.1ms preprocess, 299.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.2ms
Speed: 3.4ms preprocess, 291.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 314.4ms
Speed: 3.9ms preprocess, 314.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.8ms
Speed: 3.7ms preprocess, 300.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 292.1ms
Speed: 4.4ms preprocess, 292.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 307.7ms
Speed: 4.0ms preprocess, 307.7ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.5ms
Speed: 3.7ms preprocess, 303.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.0ms
Speed: 3.5ms preprocess, 295.0ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 307.9ms
Speed: 3.4ms preprocess, 307.9ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 303.3ms
Speed: 3.3ms preprocess, 303.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.8ms
Speed: 4.1ms preprocess, 298.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.7ms
Speed: 4.1ms preprocess, 299.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.4ms
Speed: 4.3ms preprocess, 305.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.6ms
Speed: 3.5ms preprocess, 297.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.7ms
Speed: 3.9ms preprocess, 298.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 312.3ms
Speed: 3.6ms preprocess, 312.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 340.9ms
Speed: 3.6ms preprocess, 340.9ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 471.9ms
Speed: 4.0ms preprocess, 471.9ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 467.3ms
Speed: 4.6ms preprocess, 467.3ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 451.9ms
Speed: 3.6ms preprocess, 451.9ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 496.8ms
Speed: 4.6ms preprocess, 496.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 435.7ms
```

```
Speed: 3.9ms preprocess, 435.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 334.5ms
Speed: 4.0ms preprocess, 334.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.7ms
Speed: 3.4ms preprocess, 295.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.6ms
Speed: 2.6ms preprocess, 288.6ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 310.8ms
Speed: 3.4ms preprocess, 310.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.9ms
Speed: 3.3ms preprocess, 299.9ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 286.9ms
Speed: 3.6ms preprocess, 286.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.9ms
Speed: 3.3ms preprocess, 294.9ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 312.0ms
Speed: 3.5ms preprocess, 312.0ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.7ms
Speed: 3.3ms preprocess, 297.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.8ms
Speed: 3.4ms preprocess, 302.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 311.7ms
Speed: 3.5ms preprocess, 311.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.8ms
Speed: 3.4ms preprocess, 295.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 295.2ms
Speed: 3.0ms preprocess, 295.2ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.6ms
Speed: 3.5ms preprocess, 291.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 277.3ms
Speed: 3.4ms preprocess, 277.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.4ms
Speed: 3.6ms preprocess, 297.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 291.9ms
Speed: 3.3ms preprocess, 291.9ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.7ms
Speed: 5.5ms preprocess, 299.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 283.5ms
Speed: 3.7ms preprocess, 283.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.3ms
Speed: 2.6ms preprocess, 301.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.3ms
Speed: 3.8ms preprocess, 303.3ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 286.7ms
Speed: 3.5ms preprocess, 286.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.0ms
Speed: 3.7ms preprocess, 289.0ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 309.9ms
Speed: 5.2ms preprocess, 309.9ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.4ms
```

```
Speed: 3.0ms preprocess, 295.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.6ms
Speed: 3.5ms preprocess, 288.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.4ms
Speed: 3.4ms preprocess, 301.4ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 287.5ms
Speed: 3.8ms preprocess, 287.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 281.4ms
Speed: 3.9ms preprocess, 281.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 298.7ms
Speed: 3.6ms preprocess, 298.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.4ms
Speed: 3.4ms preprocess, 305.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.7ms
Speed: 3.3ms preprocess, 303.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 474.3ms
Speed: 3.7ms preprocess, 474.3ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 462.1ms
Speed: 9.0ms preprocess, 462.1ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 person, 1 cell phone, 474.8ms
Speed: 5.8ms preprocess, 474.8ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 487.8ms
Speed: 3.6ms preprocess, 487.8ms inference, 1.5ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 482.1ms
Speed: 3.6ms preprocess, 482.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 1 cell phone, 299.9ms
Speed: 3.5ms preprocess, 299.9ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 287.6ms
Speed: 3.6ms preprocess, 287.6ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 cell phone, 296.8ms
Speed: 3.4ms preprocess, 296.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 307.1ms
Speed: 3.4ms preprocess, 307.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 283.3ms
Speed: 3.3ms preprocess, 283.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 305.0ms
Speed: 3.7ms preprocess, 305.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 302.1ms
Speed: 3.6ms preprocess, 302.1ms inference, 1.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 290.0ms
Speed: 3.6ms preprocess, 290.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 295.6ms
Speed: 3.4ms preprocess, 295.6ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 291.3ms
Speed: 3.8ms preprocess, 291.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 297.9ms
Speed: 3.4ms preprocess, 297.9ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 285.5ms
Speed: 3.5ms preprocess, 285.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 1 cell phone, 292.9ms
```

```
Speed: 3.8ms preprocess, 292.9ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 suitcase, 1 cell phone, 299.4ms
Speed: 3.8ms preprocess, 299.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 suitcase, 1 cell phone, 287.1ms
Speed: 3.5ms preprocess, 287.1ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 suitcase, 1 cell phone, 293.5ms
Speed: 3.4ms preprocess, 293.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 cell phone, 303.2ms
Speed: 3.4ms preprocess, 303.2ms inference, 1.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 suitcase, 2 cell phones, 296.0ms
Speed: 3.6ms preprocess, 296.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 2 cell phones, 293.2ms
Speed: 3.3ms preprocess, 293.2ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 suitcase, 1 cell phone, 289.5ms
Speed: 3.7ms preprocess, 289.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 1 cell phone, 308.8ms
Speed: 3.6ms preprocess, 308.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 cell phone, 295.7ms
Speed: 3.9ms preprocess, 295.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 1 suitcase, 1 cell phone, 296.0ms
Speed: 3.5ms preprocess, 296.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 304.9ms
Speed: 3.8ms preprocess, 304.9ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 295.1ms
Speed: 3.5ms preprocess, 295.1ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 2 cars, 1 cell phone, 292.9ms
Speed: 3.7ms preprocess, 292.9ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 290.7ms
Speed: 3.6ms preprocess, 290.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 271.4ms
Speed: 3.4ms preprocess, 271.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 304.5ms
Speed: 3.2ms preprocess, 304.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 295.4ms
Speed: 3.3ms preprocess, 295.4ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 302.5ms
Speed: 4.0ms preprocess, 302.5ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 289.0ms
Speed: 3.4ms preprocess, 289.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 485.9ms
Speed: 3.6ms preprocess, 485.9ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 2 cars, 460.0ms
Speed: 3.4ms preprocess, 460.0ms inference, 1.3ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 1 toilet, 451.4ms
Speed: 4.6ms preprocess, 451.4ms inference, 1.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 483.2ms
Speed: 3.6ms preprocess, 483.2ms inference, 1.4ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 486.4ms
Speed: 3.5ms preprocess, 486.4ms inference, 1.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 296.0ms
```

```
Speed: 3.5ms preprocess, 296.0ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 298.9ms
Speed: 3.6ms preprocess, 298.9ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 296.1ms
Speed: 3.7ms preprocess, 296.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 293.3ms
Speed: 3.7ms preprocess, 293.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 299.7ms
Speed: 3.6ms preprocess, 299.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 289.9ms
Speed: 3.4ms preprocess, 289.9ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 306.6ms
Speed: 3.5ms preprocess, 306.6ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.8ms
Speed: 4.1ms preprocess, 296.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.2ms
Speed: 3.9ms preprocess, 288.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 284.5ms
Speed: 3.9ms preprocess, 284.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.4ms
Speed: 3.3ms preprocess, 302.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.6ms
Speed: 3.3ms preprocess, 288.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 286.6ms
Speed: 3.7ms preprocess, 286.6ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 306.7ms
Speed: 3.7ms preprocess, 306.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 287.7ms
Speed: 3.2ms preprocess, 287.7ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.0ms
Speed: 3.6ms preprocess, 296.0ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 320.1ms
Speed: 3.5ms preprocess, 320.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.0ms
Speed: 4.5ms preprocess, 297.0ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.5ms
Speed: 3.3ms preprocess, 297.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.3ms
Speed: 3.4ms preprocess, 299.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 314.7ms
Speed: 3.6ms preprocess, 314.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.1ms
Speed: 3.7ms preprocess, 293.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 283.7ms
Speed: 4.4ms preprocess, 283.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 306.7ms
Speed: 4.4ms preprocess, 306.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.4ms
Speed: 4.3ms preprocess, 289.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.7ms
```

```
Speed: 5.2ms preprocess, 289.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.7ms
Speed: 4.7ms preprocess, 305.7ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.5ms
Speed: 3.3ms preprocess, 297.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 286.2ms
Speed: 4.0ms preprocess, 286.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.3ms
Speed: 4.0ms preprocess, 301.3ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.4ms
Speed: 3.5ms preprocess, 295.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.6ms
Speed: 3.2ms preprocess, 294.6ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 487.7ms
Speed: 3.8ms preprocess, 487.7ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 465.1ms
Speed: 3.6ms preprocess, 465.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 472.0ms
Speed: 3.6ms preprocess, 472.0ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 466.1ms
Speed: 4.5ms preprocess, 466.1ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 479.5ms
Speed: 4.2ms preprocess, 479.5ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 317.5ms
Speed: 4.2ms preprocess, 317.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 289.1ms
Speed: 4.6ms preprocess, 289.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.5ms
Speed: 3.8ms preprocess, 290.5ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 307.4ms
Speed: 3.7ms preprocess, 307.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.7ms
Speed: 4.1ms preprocess, 289.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 292.0ms
Speed: 3.6ms preprocess, 292.0ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 313.5ms
Speed: 3.6ms preprocess, 313.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.2ms
Speed: 3.4ms preprocess, 302.2ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 292.5ms
Speed: 4.4ms preprocess, 292.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.9ms
Speed: 3.9ms preprocess, 293.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.7ms
Speed: 3.7ms preprocess, 302.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.4ms
Speed: 3.7ms preprocess, 293.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.5ms
Speed: 3.7ms preprocess, 305.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 311.7ms
Speed: 3.5ms preprocess, 311.7ms inference, 0.6ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.1ms
Speed: 3.6ms preprocess, 297.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.4ms
Speed: 3.4ms preprocess, 299.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.4ms
Speed: 3.8ms preprocess, 303.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.9ms
Speed: 3.7ms preprocess, 288.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.9ms
Speed: 3.7ms preprocess, 297.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 308.1ms
Speed: 3.5ms preprocess, 308.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 288.2ms
Speed: 3.5ms preprocess, 288.2ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 304.2ms
Speed: 3.4ms preprocess, 304.2ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.8ms
Speed: 3.3ms preprocess, 299.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.1ms
Speed: 3.4ms preprocess, 300.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.2ms
Speed: 3.3ms preprocess, 289.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 310.0ms
Speed: 3.8ms preprocess, 310.0ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 306.2ms
Speed: 3.6ms preprocess, 306.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 276.9ms
Speed: 3.9ms preprocess, 276.9ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 284.1ms
Speed: 3.6ms preprocess, 284.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 284.1ms
Speed: 3.6ms preprocess, 284.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 280.9ms
Speed: 3.6ms preprocess, 280.9ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 283.1ms
Speed: 3.6ms preprocess, 283.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 409.7ms
Speed: 3.5ms preprocess, 409.7ms inference, 1.2ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 442.1ms
Speed: 3.5ms preprocess, 442.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 453.1ms
Speed: 5.3ms preprocess, 453.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 473.6ms
Speed: 6.0ms preprocess, 473.6ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 479.2ms
Speed: 3.6ms preprocess, 479.2ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 394.5ms
Speed: 4.0ms preprocess, 394.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.8ms
Speed: 3.6ms preprocess, 302.8ms inference, 0.7ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.8ms
Speed: 3.4ms preprocess, 290.8ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.1ms
Speed: 3.7ms preprocess, 305.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.1ms
Speed: 2.9ms preprocess, 298.1ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 306.2ms
Speed: 4.1ms preprocess, 306.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.4ms
Speed: 3.6ms preprocess, 303.4ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 306.5ms
Speed: 3.4ms preprocess, 306.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 300.2ms
Speed: 3.9ms preprocess, 300.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.5ms
Speed: 4.8ms preprocess, 295.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 305.5ms
Speed: 4.0ms preprocess, 305.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.8ms
Speed: 3.8ms preprocess, 299.8ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.6ms
Speed: 3.5ms preprocess, 294.6ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.5ms
Speed: 4.0ms preprocess, 293.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 300.8ms
Speed: 3.6ms preprocess, 300.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 296.2ms
Speed: 3.9ms preprocess, 296.2ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.2ms
Speed: 3.8ms preprocess, 295.2ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.5ms
Speed: 3.7ms preprocess, 298.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 297.7ms
Speed: 4.0ms preprocess, 297.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 bottle, 303.7ms
Speed: 4.0ms preprocess, 303.7ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 287.1ms
Speed: 3.4ms preprocess, 287.1ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 293.4ms
Speed: 3.5ms preprocess, 293.4ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 284.3ms
Speed: 6.1ms preprocess, 284.3ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 305.5ms
Speed: 4.2ms preprocess, 305.5ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 295.4ms
Speed: 3.3ms preprocess, 295.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 294.2ms
Speed: 3.5ms preprocess, 294.2ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 303.4ms
Speed: 3.3ms preprocess, 303.4ms inference, 1.0ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 294.3ms
Speed: 4.7ms preprocess, 294.3ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 294.8ms
Speed: 3.8ms preprocess, 294.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 304.4ms
Speed: 3.6ms preprocess, 304.4ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 295.0ms
Speed: 3.6ms preprocess, 295.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 294.0ms
Speed: 3.5ms preprocess, 294.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 420.9ms
Speed: 3.4ms preprocess, 420.9ms inference, 1.4ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 parking meter, 478.5ms
Speed: 3.2ms preprocess, 478.5ms inference, 1.3ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 468.5ms
Speed: 3.5ms preprocess, 468.5ms inference, 1.4ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 468.3ms
Speed: 4.9ms preprocess, 468.3ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 474.1ms
Speed: 3.5ms preprocess, 474.1ms inference, 3.3ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 414.0ms
Speed: 3.5ms preprocess, 414.0ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 cell phone, 291.4ms
Speed: 3.5ms preprocess, 291.4ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 294.9ms
Speed: 3.7ms preprocess, 294.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 307.8ms
Speed: 3.6ms preprocess, 307.8ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 293.6ms
Speed: 3.4ms preprocess, 293.6ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 291.8ms
Speed: 3.9ms preprocess, 291.8ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 1 car, 312.1ms
Speed: 4.5ms preprocess, 312.1ms inference, 1.0ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.0ms
Speed: 4.7ms preprocess, 290.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 282.0ms
Speed: 3.6ms preprocess, 282.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 313.5ms
Speed: 4.1ms preprocess, 313.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.5ms
Speed: 3.4ms preprocess, 290.5ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 294.7ms
Speed: 3.5ms preprocess, 294.7ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 299.0ms
Speed: 3.7ms preprocess, 299.0ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.2ms
Speed: 3.5ms preprocess, 303.2ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 287.0ms
Speed: 4.0ms preprocess, 287.0ms inference, 0.8ms postprocess per
```

```
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.3ms
Speed: 3.8ms preprocess, 293.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.8ms
Speed: 4.7ms preprocess, 301.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 293.1ms
Speed: 3.4ms preprocess, 293.1ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 301.3ms
Speed: 4.9ms preprocess, 301.3ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 303.5ms
Speed: 3.3ms preprocess, 303.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 278.8ms
Speed: 4.1ms preprocess, 278.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.2ms
Speed: 4.4ms preprocess, 289.2ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 298.9ms
Speed: 4.2ms preprocess, 298.9ms inference, 1.1ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 290.7ms
Speed: 3.5ms preprocess, 290.7ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 289.5ms
Speed: 4.2ms preprocess, 289.5ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 285.9ms
Speed: 3.7ms preprocess, 285.9ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 316.4ms
Speed: 4.2ms preprocess, 316.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)
```

```
0: 384x640 (no detections), 289.5ms
Speed: 4.6ms preprocess, 289.5ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 295.8ms
Speed: 3.4ms preprocess, 295.8ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 302.6ms
Speed: 3.5ms preprocess, 302.6ms inference, 0.6ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 281.9ms
Speed: 3.5ms preprocess, 281.9ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 285.4ms
Speed: 4.2ms preprocess, 285.4ms inference, 0.7ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 340.8ms
Speed: 3.5ms preprocess, 340.8ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 454.6ms
Speed: 3.4ms preprocess, 454.6ms inference, 0.8ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 466.4ms
Speed: 3.5ms preprocess, 466.4ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 452.3ms
Speed: 3.4ms preprocess, 452.3ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)

0: 384x640 (no detections), 485.8ms
Speed: 3.6ms preprocess, 485.8ms inference, 0.9ms postprocess per
image at shape (1, 3, 384, 640)
```