```
from google.colab import drive
drive.mount('/content/gdrive/')
```

```
Mounted at /content/gdrive/
```

```
%cd /content/gdrive/MyDrive
```

```
/content/gdrive/MyDrive
```

```
import os
if not os.path.isdir("yolov8session"):
  os.makedirs("yolov8session")
```

```
%cd yolov8session
```

```
/content/gdrive/MyDrive/yolov8session
```

```
!git clone https://github.com/ultralytics/ultralytics.git
```

```
fatal: destination path 'ultralytics' already exists and is not an empty directory.
```

+ Code   + Text

```
%cd ultralytics
```

```
/content/gdrive/MyDrive/yolov8session/ultralytics
```

```
!pip install ultralytics
```

```
Collecting ultralytics
  Downloading ultralytics-8.0.135-py3-none-any.whl (603 kB)
  ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 603.9/603.9 kB 33.3 MB/s eta 0:00:00
Requirement already satisfied: matplotlib>=3.2.2 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (3.7.1)
Requirement already satisfied: opencv-python>=4.6.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (4.7.0.72)
Requirement already satisfied: Pillow>=7.1.2 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (8.4.0)
Requirement already satisfied: PyYAML>=5.3.1 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (6.0)
Requirement already satisfied: requests>=2.23.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (2.27.1)
Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (1.10.1)
Requirement already satisfied: torch>=1.7.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (2.0.1+cu118)
Requirement already satisfied: torchvision>=0.8.1 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (0.15.2+cu118)
Requirement already satisfied: tqdm>=4.64.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (4.65.0)
Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (1.5.3)
Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/python3.10/dist-packages (from ultralytics) (0.12.2)
Requirement already satisfied: psutil in /usr/local/lib/python3.10/dist-packages (from ultralytics) (5.9.5)
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (1
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (0.11.0
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (4
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (1
Requirement already satisfied: numpy>=1.20 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (1.22.4
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (23
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics) (3
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.10/dist-packages (from matplotlib>=3.2.2->ultralytics
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.1.4->ultralytics) (2022.7.1)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics) (2
Requirement already satisfied: charset-normalizer~=2.0.0 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralyt
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests>=2.23.0->ultralytics) (3.4)
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from torch>=1.7.0->ultralytics) (3.12.2)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from torch>=1.7.0->ultralytics) (4.7.1
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from torch>=1.7.0->ultralytics) (1.11.1)
Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from torch>=1.7.0->ultralytics) (3.1)
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from torch>=1.7.0->ultralytics) (3.1.2)
Requirement already satisfied: triton==2.0.0 in /usr/local/lib/python3.10/dist-packages (from torch>=1.7.0->ultralytics) (2.0.0)
Requirement already satisfied: cmake in /usr/local/lib/python3.10/dist-packages (from triton==2.0.0->torch>=1.7.0->ultralytics) (3.2
Requirement already satisfied: lit in /usr/local/lib/python3.10/dist-packages (from triton==2.0.0->torch>=1.7.0->ultralytics) (16.0
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.7->matplotlib>=3.2.2->ul
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2->torch>=1.7.0->ultralytics)
Requirement already satisfied: mpmath>=0.19 in /usr/local/lib/python3.10/dist-packages (from sympy->torch>=1.7.0->ultralytics) (1.3
Installing collected packages: ultralytics
Successfully installed ultralytics-8.0.135
```

```
!yolo task=detect mode=train model=yolov8x.pt data=/content/gdrive/MyDrive/yolov8session/ultralytics/ultralytics/datasets/custom_data.ya
```

```
Ultralytics YOLOv8.0.135 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
yolo/engine/trainer: task=detect, mode=train, model=yolov8x.pt, data=/content/gdrive/MyDrive/yolov8session/ultralytics/ultralytics/
Traceback (most recent call last):
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/trainer.py", line 123, in __init__
    self.data = check_det_dataset(self.args.data)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/utils.py", line 252, in check_det_dataset
    raise FileNotFoundError(m)
FileNotFoundError:
```

```
    Dataset '/content/gdrive/MyDrive/yolov8session/ultralytics/ultralytics/datasets/custom_data.yaml' images not found ⚠, missing path
    Note dataset download directory is '/content/gdrive/MyDrive/yolov8session/ultralytics/datasets'. You can update this in '/root/.conf

    The above exception was the direct cause of the following exception:

    Traceback (most recent call last):
      File "/usr/local/bin/yolo", line 8, in <module>
        sys.exit(entrypoint())
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/cfg/__init__.py", line 407, in entrypoint
        getattr(model, mode)(**overrides)  # default args from model
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/model.py", line 368, in train
        self.trainer = TASK_MAP[self.task][1](overrides=overrides, _callbacks=self.callbacks)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/trainer.py", line 127, in __init__
        raise RuntimeError(emojis(f"Dataset '{clean_url(self.args.data)}' error ❌ {e}")) from e
    RuntimeError: Dataset '/content/gdrive/MyDrive/yolov8session/ultralytics/ultralytics/datasets/custom_data.yaml' error ❌
    Dataset '/content/gdrive/MyDrive/yolov8session/ultralytics/ultralytics/datasets/custom_data.yaml' images not found ⚠, missing path
    Note dataset download directory is '/content/gdrive/MyDrive/yolov8session/ultralytics/datasets'. You can update this in '/root/.conf
```

```
!yolo predict model=yolov8x.pt source='/content/gdrive/MyDrive/yolov8session/ultralytics/aiport.jpeg'
```

```
↳  Ultralytics YOLOv8.0.124 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
   YOLOv8x summary (fused): 268 layers, 68200608 parameters, 0 gradients

   Traceback (most recent call last):
     File "/usr/local/bin/yolo", line 8, in <module>
       sys.exit(entrypoint())
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/cfg/__init__.py", line 405, in entrypoint
       getattr(model, mode)(**overrides)  # default args from model
     File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 115, in decorate_context
       return func(*args, **kwargs)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/model.py", line 255, in predict
       return self.predictor.predict_cli(source=source) if is_cli else self.predictor(source=source, stream=stream)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 195, in predict_cli
       for _ in gen:  # running CLI inference without accumulating any outputs (do not modify)
     File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 35, in generator_context
       response = gen.send(None)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 222, in stream_inference
       self.setup_source(source if source is not None else self.args.source)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 203, in setup_source
       self.dataset = load_inference_source(source=source, imgsz=self.imgsz, vid_stride=self.args.vid_stride)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/build.py", line 165, in load_inference_source
       dataset = LoadImages(source, imgsz=imgsz, vid_stride=vid_stride)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/dataloaders/stream_loaders.py", line 167, in __init__
       raise FileNotFoundError(f'{p} does not exist')
   FileNotFoundError: /content/gdrive/MyDrive/yolov8session/ultralytics/aiport.jpeg does not exist
```

```
!yolo mode = predict task=segment model=yolov8x-seg.pt source='/content/gdrive/MyDrive/yolov8session/ultralytics/people.jpeg'
```

```
↳  Downloading https://github.com/ultralytics/assets/releases/download/v0.0.0/yolov8x-seg.pt to yolov8x-seg.pt...
   100% 137M/137M [00:08<00:00, 17.3MB/s]
   Ultralytics YOLOv8.0.124 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
   YOLOv8x-seg summary (fused): 295 layers, 71797696 parameters, 0 gradients

   Traceback (most recent call last):
     File "/usr/local/bin/yolo", line 8, in <module>
       sys.exit(entrypoint())
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/cfg/__init__.py", line 405, in entrypoint
       getattr(model, mode)(**overrides)  # default args from model
     File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 115, in decorate_context
       return func(*args, **kwargs)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/model.py", line 255, in predict
       return self.predictor.predict_cli(source=source) if is_cli else self.predictor(source=source, stream=stream)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 195, in predict_cli
       for _ in gen:  # running CLI inference without accumulating any outputs (do not modify)
     File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 35, in generator_context
       response = gen.send(None)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 222, in stream_inference
       self.setup_source(source if source is not None else self.args.source)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 203, in setup_source
       self.dataset = load_inference_source(source=source, imgsz=self.imgsz, vid_stride=self.args.vid_stride)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/build.py", line 165, in load_inference_source
       dataset = LoadImages(source, imgsz=imgsz, vid_stride=vid_stride)
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/dataloaders/stream_loaders.py", line 167, in __init__
       raise FileNotFoundError(f'{p} does not exist')
   FileNotFoundError: /content/gdrive/MyDrive/yolov8session/ultralytics/people.jpeg does not exist
```

```
!yolo predict model=yolov8x.pt source='/content/gdrive/MyDrive/yolov8session/ultralytics/car-meet-in-hawaii.jpg'
```

```
↳  Ultralytics YOLOv8.0.124 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
   YOLOv8x summary (fused): 268 layers, 68200608 parameters, 0 gradients

   Traceback (most recent call last):
     File "/usr/local/bin/yolo", line 8, in <module>
       sys.exit(entrypoint())
     File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/cfg/__init__.py", line 405, in entrypoint
```

```
        getattr(model, mode)(**overrides)  # default args from model
      File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 115, in decorate_context
        return func(*args, **kwargs)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/model.py", line 255, in predict
        return self.predictor.predict_cli(source=source) if is_cli else self.predictor(source=source, stream=stream)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 195, in predict_cli
        for _ in gen:  # running CLI inference without accumulating any outputs (do not modify)
      File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 35, in generator_context
        response = gen.send(None)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 222, in stream_inference
        self.setup_source(source if source is not None else self.args.source)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 203, in setup_source
        self.dataset = load_inference_source(source=source, imgsz=self.imgsz, vid_stride=self.args.vid_stride)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/build.py", line 165, in load_inference_source
        dataset = LoadImages(source, imgsz=imgsz, vid_stride=vid_stride)
      File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/dataloaders/stream_loaders.py", line 167, in __init__
        raise FileNotFoundError(f'{p} does not exist')
    FileNotFoundError: /content/gdrive/MyDrive/yolov8session/ultralytics/car-meet-in-hawaii.jpg does not exist
```

```
!yolo mode = predict task = pose model = yolov8x-cls.pt source='/content/gdrive/MyDrive/yolov8session/ultralytics/people.jpeg'
```

```
Downloading https://github.com/ultralytics/assets/releases/download/v0.0.0/yolov8x-cls.pt to yolov8x-cls.pt...
100% 110M/110M [00:06<00:00, 17.2MB/s]
WARNING ⚠ conflicting 'task=pose' passed with 'task=classify' model. Ignoring 'task=pose' and updating to 'task=classify' to match
Ultralytics YOLOv8.0.124 🚀 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)
YOLOv8x-cls summary (fused): 133 layers, 57404200 parameters, 0 gradients

Traceback (most recent call last):
  File "/usr/local/bin/yolo", line 8, in <module>
    sys.exit(entrypoint())
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/cfg/__init__.py", line 405, in entrypoint
    getattr(model, mode)(**overrides)  # default args from model
  File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 115, in decorate_context
    return func(*args, **kwargs)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/model.py", line 255, in predict
    return self.predictor.predict_cli(source=source) if is_cli else self.predictor(source=source, stream=stream)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 195, in predict_cli
    for _ in gen:  # running CLI inference without accumulating any outputs (do not modify)
  File "/usr/local/lib/python3.10/dist-packages/torch/utils/_contextlib.py", line 35, in generator_context
    response = gen.send(None)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 222, in stream_inference
    self.setup_source(source if source is not None else self.args.source)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/engine/predictor.py", line 203, in setup_source
    self.dataset = load_inference_source(source=source, imgsz=self.imgsz, vid_stride=self.args.vid_stride)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/build.py", line 165, in load_inference_source
    dataset = LoadImages(source, imgsz=imgsz, vid_stride=vid_stride)
  File "/usr/local/lib/python3.10/dist-packages/ultralytics/yolo/data/dataloaders/stream_loaders.py", line 167, in __init__
    raise FileNotFoundError(f'{p} does not exist')
FileNotFoundError: /content/gdrive/MyDrive/yolov8session/ultralytics/people.jpeg does not exist
```