Dataset visualization

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In [8]:  from pathlib import Path
         import paths
         from datasets import VOCDataset
```

```
In [9]:  voc_path = Path(paths.CV_PATH_VOC)
         dataset = VOCDataset(voc_path, voc_path / "ImageSets" / "Segmentation" / "val.tx
                              load_captions=True)
```

```
In [10]: def show_datapoint(n):
             data = dataset[n]
             display(data["image"])
             print(f"Reference caption: {data['caption']}")

         show_datapoint(0)
```



```
Reference caption: a plane on the tarmac
```

```
In [11]: # load and show generated captions
         # todo update the path to match your experiment
         pred_captions_file = "outputs/eval_captioning/2023_05_08_23_15_41/pred_captions.
         with open(pred_captions_file, "r", encoding="utf-8") as f:
             pred_captions = f.readlines()
         assert len(pred_captions) == len(dataset)

         def show_caption(n):
             print(f"Generated caption: {pred_captions[n]}")
```

```
In [12]: for i in range(10):
             show_datapoint(i)
             show_caption(i)
```

Reference caption: a plane on the tarmac
Generated caption: a plane at an airport with a gate

Reference caption: two white and red trains parked next to each other
Generated caption: two trains parked on the tracks

Reference caption: a boat docked in a waterway next to a house
Generated caption: a boat on the water near a dock

Reference caption: a black and white photo of a train at a station
Generated caption: a train at a train station

Reference caption: a group of cyclists racing on a track
Generated caption: a group of people riding bikes

Reference caption: two sheep laying in the grass
Generated caption: two sheep in the grass together

Reference caption: a computer is sitting on a desk next to a monitor
Generated caption: a computer and a monitor on a desk

Reference caption: a man and a woman posing for a picture
Generated caption: me and my friend, i'm in the train

Reference caption: a horse standing next to a green slide
Generated caption: a horse that is standing in the grass

Reference caption: a woman holding up a bottle of vodka
Generated caption: me with a bottle of vodka

In [ ]: