(a) False-premise Reasoning Segmentation Dataset

Original Image and Language Query



If we were to take a flight in the sky, what part of the plane in the picture would be spinning to generate lift and propel the aircraft forward?

Original question (serve as reference)

Randomly false premise query associated to other images

Q: Bamboo is very hard, and its sharp edges can easily scratch people. What tool in the picture can I use to split the bamboo and cross this bamboo forest?

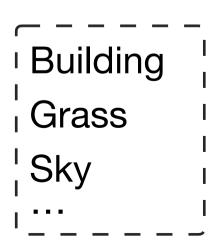
Generated QA Pairs

Q: {random fp description} Please give me the segmentation map if the referred object exists.

A: I cannot find the object or the image does not depict something that can be used to split the bamboo and cross the bamboo forest. The image features an old military airplane parked on a grass field, and there is no bamboo forest or any tool to split bamboo present in the scene.

(b) False-premise Semantic Segmentation Dataset





+ River —

Template-based Generation

Original Image and Class Labels

Random class

Generated QA Pairs

Q: Check if {class_name} is in the image. Provide a segmentation map if it is. If it isn't, deny its presence and optionally suggest suggest similar-looking items.

A: I don't see {class_name} in the image.