

LangSAM_Interface

1.接口文件名

/home/cike/hds/langsam/example_notebook/LangSamInterface.py

2.接口类设计

```
# environment: sam
class LangSAM_Interface():
    def __init__(self):
        logging.info("Loading the LangSAM model...")
        self.model = LangSAM()
        logging.info("Model loaded successfully.")

    def predict(self, image, text_prompt, return_mask=False, return_box=True,
return_phrase=True, return_logits=True):
        masks, boxes, phrases, logits = self.model.predict(image, text_prompt)
        masks = masks if return_mask is True else []
        boxes = boxes if return_box is True else []
        phrases = phrases if return_phrase is True else []
        logits = logits if return_logits is True else []
        # boxes, logits, masks, phrases
        return boxes, logits, masks, phrases
```

input中"不可以接受文件路径作为输入", 音频格式amr, 图片格式jpg

3.调用示例

```
if __name__ == "__main__":

    langsam_model = LangSAM_Interface()
    image_path = "/home/cike/hds/langsam/assets/Bollard.jpg"
    with open('/home/cike/hds/langsam/assets/Bollard.jpg', 'rb') as file:
        image = file.read()
    # convert bytes to Image
    image = Image.open(io.BytesIO(image)).convert('RGB')
    # H, W, C

    text_prompt = "bollard.ground.people"
    masks, boxes, phrases, logits = langsam_model.predict(image, text_prompt)

    print(masks)
```