

# LapDepthInterface

## 1.接口文件名

/home/cike/weiyuancheng/LapDepth-release/api/LapDepthInterface.py

## 2.接口类设计

```
# Environment: sam
class LapDepthInterface():
    def __init__(self, langsam_model=None):
        self.args = construct_args()
        if langsam_model is None:
            self.langsam_model = build_langsam()
        else:
            self.langsam_model = langsam_model
        self.model = build_LapDepth(self.args)

    def predict(self, img, prompt ,output_location=None):
        prompt = analyze_one_image(lapdepth_model=self.model,
        langsam_model=self.langsam_model, img=img, output_location=output_location,
        args=self.args, prompt=prompt)
        return prompt
```

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__':
    lapdepth_model = LapDepthInterface()
    prompt = 'ground . trashcan . people'

    img =
    Image.open(io.BytesIO(get_binary_stream_image('/home/cike/weiyuancheng/LapDepth-
    release/assets/povt2.jpg'))))

    # calculate a standard time used to predict
    start = time.time()
    guidance = lapdepth_model.predict(img, prompt)
    end = time.time()
    print('time used: ', end-start)
    print(guidance)

    # time used: 8.624093770980835 for a 330KB jpg image
    # {}前方{}处有一个障碍物
    # ['正前方近处有一个障碍物', '右前方远处有一个障碍物']
```