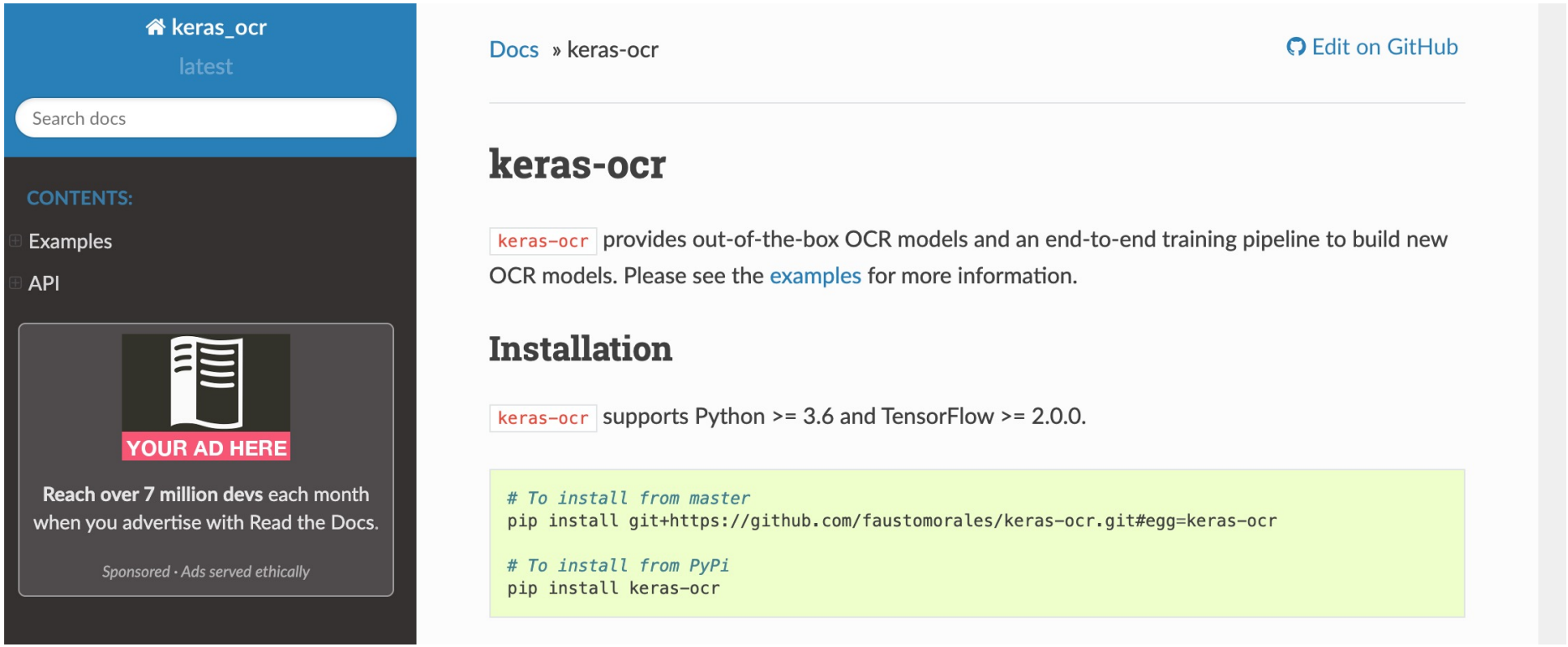
TensorFlow 2.0 CRNN Implementation

- https://github.com/faustomorales/keras-ocr

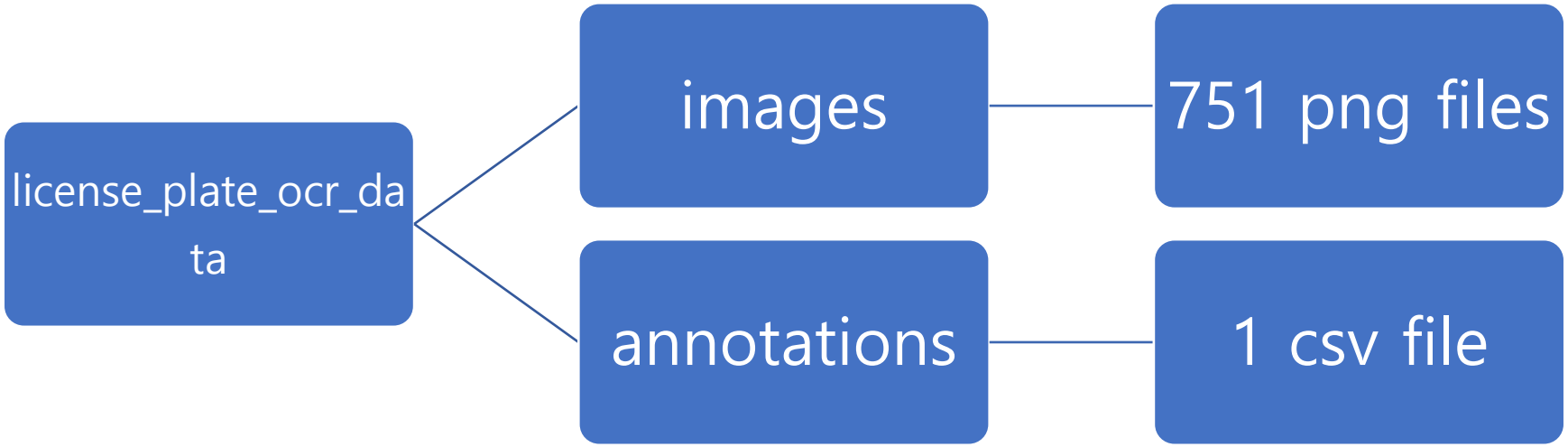
Keras-ocr documentation

- https://keras-ocr.readthedocs.io/en/latest/



License Plate Dataset

- https://drive.google.com/file/d/16lNTGvRGFooolxFX2IR3n-g24NkqDEX6/view
- 751 license plate images



License Plate Data Format

① Image:

② Annotation:

ak399.png,ak,FGJ235

filename, state alias, groundtruth label

실습 – License Plate OCR Dataset에 대해 CRNN Recognizer 학습

- 기존의 CRNN 모델을 License Plate OCR Dataset에 적합한 파라미터로 Fine-Tuning 해봅시다.

License Plate Data Format

- https://colab.research.google.com/drive/1-VMUiOuBRjSeGWG0zcv5eHS7k9ctx5pp?usp=sharing

① https://keras-ocr.readthedocs.io/en/latest/examples/fine_tuning_recognizer.html 참조로 CRNN Fine-Tuning code 작성

② get_license_plate_recognizer_dataset 함수 새로 작성 (https://drive.google.com/file/d/16lNTGvRGFooolxFX2IR3n-g24NkqDEX6/view 에서 다운로드 받은 이미지 및 정답 parsing하는 로직 직접 작성) (참조 코드 : https://github.com/faustomorales/keras-ocr/blob/master/keras_ocr/datasets.py#L102)

③ license plate recognizer 데이터셋에 맞게 CRNN 파라미터 Fine-Tuning

Thank you!