

Blackfoot

Training Image Editor for Machine Learning

(work in progress)

OVERVIEW

Machine learning computer vision projects require thousands of images for properly trained models. Blackfoot is a set of tools to take one image, create dozens of rotated and resized variations, save them online, and test them against a Feature Detector.

TECHNOLOGIES USED

Python, OpenCV, Tesseract OCR, Angular 4, Amazon AWS (S3, EC2), MongoDB, OWIN Self-Hosted WebApi, C#, Typescript, JavaScript, CSS Transformations, Tensorflow



Blackfoot has tools to rotate, resize, apply OCR, and process through feature detection.



The transformed image is saved to an Amazon S3 bucket and streamed back to the UI as a base64 encoded string. The public S3 link can be shared or used for reimporting to another program for more preprocessing. Thumbnails let you know what transformations have been completed (below).



REQUEST A DEMO

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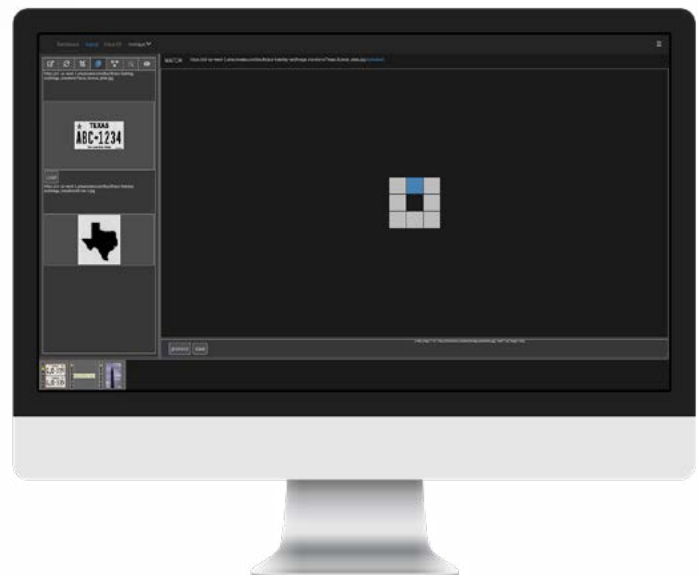




Send an image URL to the Optical Character Recognition service and get the output in the "results" pane. Resize the image and recheck the output. Rotate then recheck. Refine the image for the best output.



Send an image via URL to the Feature Detector service. This can take a while...



...and get the results. The detected image appears in the left pane. The right pane shows a crop using the coordinates it reported. Resize the image and try again, and then rotate the image and try again.

