

## Çağrı Erciyes:

I wrote a Matlab code to remove stem from leaf by using morphological operations and also separated small (error) components from the image. In addition, with Burak, we worked together to merge our written codes to obtain only a single image processing code.

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## İlke Çuğu:

Caffe Tree Identification Agent is written and ready for the server. Current database (with 20 tree classes) is edited. No image is left behind with a noisy white background.

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## Eren Şener:

I converted image resizing code to Python for using it while training Caffe. Also, I searched for new species and downloaded them.

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## Burak Balcı:

I optimized the background elimination algorithm with K-means. Two cluster is used and center pixel value of image is compared with cluster centers to determine the leaf cluster (assuming that center pixel is the part of leaf). Cluster and iteration number is determined experimentally. Then, code is accelerated using proportionally resized image as input. After completing background-elimination and stem-deletion problems, with Çağrı we determined the features which we use and integrated our overall algorithms and codes. Now, feature extraction mechanism is ready for use.

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## Emre Akın:

- Entrance (Main) Activity has been added to the Android application.
  - Custom Camera (Not Camera2 Hardware) has been integrated to our last version of app.
  - Custom information is removed and Wikipedia information is added to the our custom sliding screen.
  - In the information screen, each 3 secs, images on the toolbar are changing automatically from leaf to tree and vice versa.
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