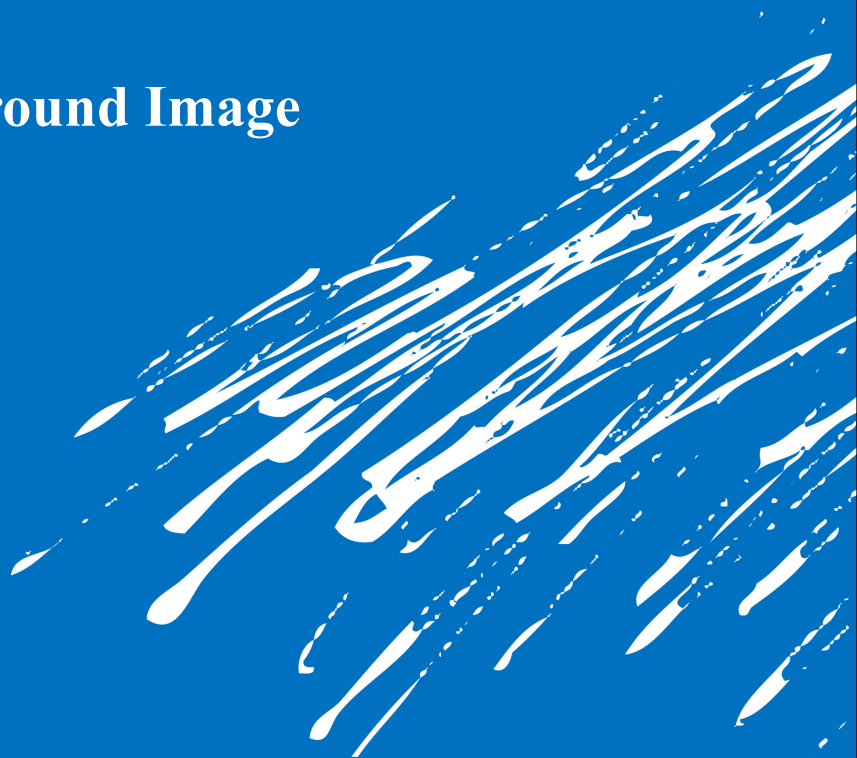


# Project Introduction--

## Genetic Programming for Figure-ground Image Segmentation

2017.09.18



- This project focuses on figure-ground image segmentation that is transformed to a sub-image (cutout) classification problem;
- Genetic programming (GP) is used to evolve binary classifiers that can classify sub-images as class foreground/background;
- Details can be found in papers “Genetic Programming for Evolving Segmentors from Multiple Features” and “Multi-objective Genetic Programming for Figure-ground Image Segmentation”;
- The GP based figure-ground segmentation system is displayed on the following page.



## Four Major Packages

data

designed to process data used in the project,  
e.g. images and samples (feature vectors)

ec (open source:  
ECJ Package)

ec\app\classification

set up GP algorithm  
for the sub-image  
classification problem

LabelledImgProcess

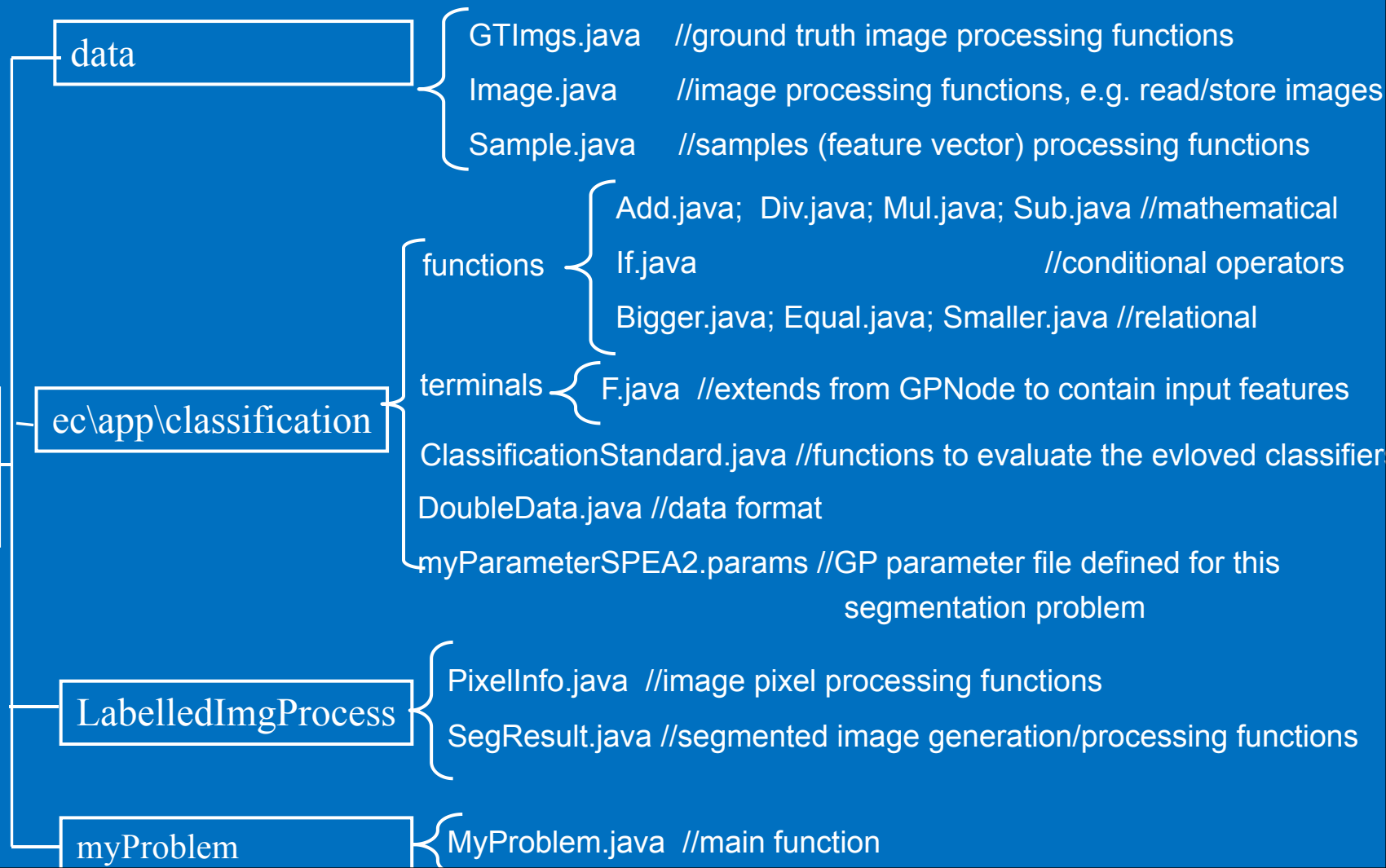
designed to generate/process  
segmentation results based on  
predicted pixel labels

myProblem

main function

# Code

## Four Major Packages



**Thanks !**