



Figure 1: Differences in Pipeline

## 1 Introduction

To recognise and count the coins in an image, Coinsy, have three subtasks: 1) Image processing, 2) Object recognition, and 3) Classification (and then counting the coins).

For Coinsy to be a proficient counter, we have to first train it. The processes that Coinsy goes through for training differs from evaluation as described in figure Figure ???. We will describe her training in the next section - methodology, and her evaluation results after. Lastly, we conclude

with a discussion on Coinsy performance.

In the following subsections, we give an overview of the operation pipeline for each subtasks.

## **1.1 Image Processing**

For all images that Coinsy receives, a series of preprocessing will be carried out for images to be comparable, followed by background subtraction and image segmentation. The output of this task are the The background is built using

2) Image segmentation,

## **1.2 Object Recognition**

## **1.3 Classification**