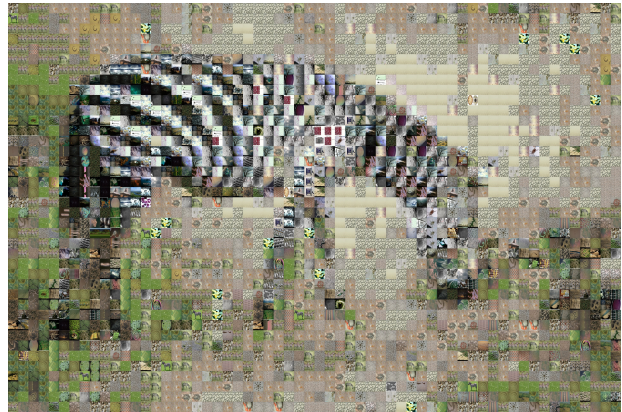# Final exam: Photomosaic

> **Note**
>
> All documents allowed. No code is required, but pseudo-code might be provided.

1   Introduction

(a) Original image.

(b) Mosaic image.

Figure 1: Mosaic example.

A photomosaic is composed of small images, stored in a database (a high number of images is required), and smartly positionned in order to correctly represent the original background image. The objective is to create a program that generates such a mosaic.

2   Requirements (20 points)

> **?**
>
> Propose a method in order to construct such a mosaic.
>
> - Detail the different steps of the algorithm.
>
> - Emphasize the use of geometry in this context.
>
> - Mention the computational complexity when necessary.