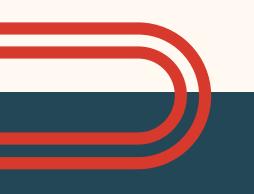


# Graph Gallery Categorizer

**Bridging Visual Content and Categories** 

DR. BASEMA SHQERAT MUTAZ QUTAMI HAMZA KHADER

# TABLE OF CONTENTS



INTRODUCTION
DESCRIPTION4
MOTIVATIONS & REASONS5
OVERVIEW6
SAMPLE7
CATEGORIES8
TOOLS10
EINICH

#### Introduction

In a world awash with an ever-increasing volume of visual content, we face the daunting task of effectively categorizing and organizing our photos. This project represents a solution to this challenge by using the power of graphs.

In today's digital age, we are capturing and storing images at an unprecedented rate. Whether it's personal photo collections, professional image repositories, or vast visual datasets, the need to categorize and make sense of these images has never been more critical. The traditional file-based systems fall short in handling the complexity and interconnectivity of visual data. This is where "graph category categorizer" steps in.

## Description

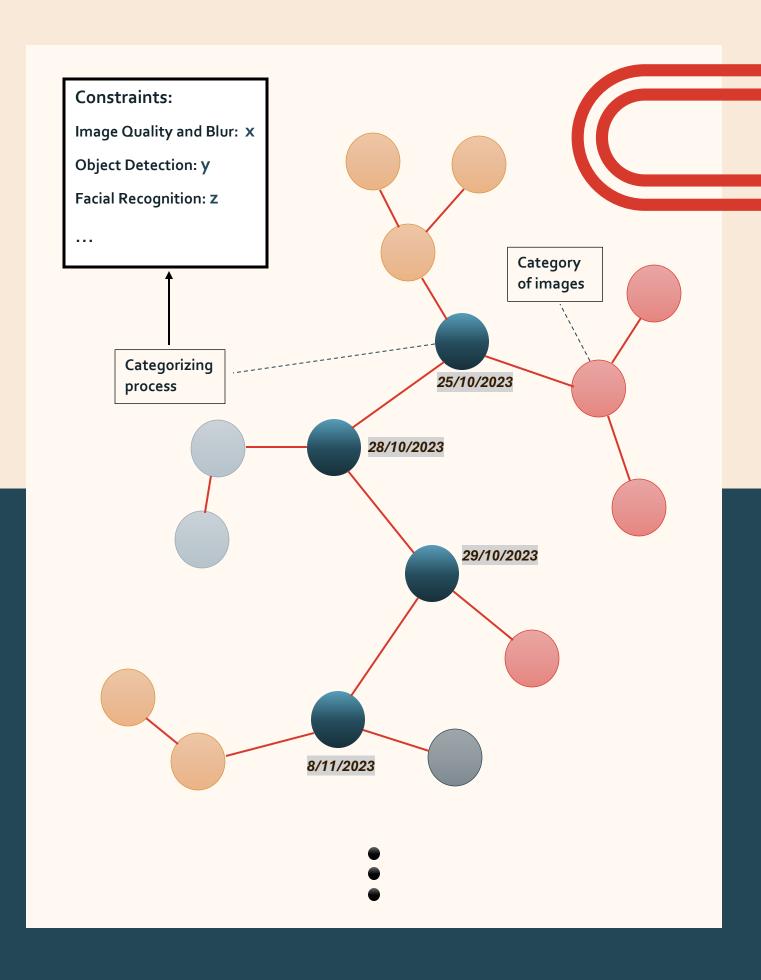
Graph Gallery Categorizer it's a photo management tool. It's a revolutionary system that leverages the power of graphs to organize and categorize images. In this system, each day becomes a node, connected to images of the same category, and linked to the following day. This innovative approach not only helps manage photos but also tells a visual story of how our photo categories evolve over time.

#### Motivations & Reasons

- 1: Visual Content Overload
- 2: The Limitations of Traditional Systems
- 3: Evolution of Visual Stories
- 4: Enhanced Accessibility and Understanding

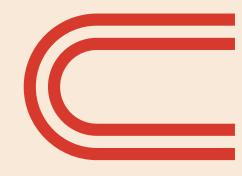
#### Overview

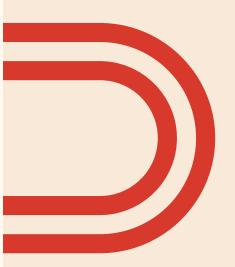
Suppose that your gallery consists of 1000 photos, some are personal, others are scientific, etc. You need at a moment to get all personal's photos, then you will expend a lot of time to search about, and even more time if you need to collage them at one place. Here's where our idea came from. In such a way of having nodes which are linked together using specific method and tools, we can college any category of photos that you need in efficient way.



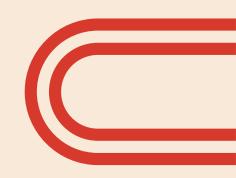
## Categories

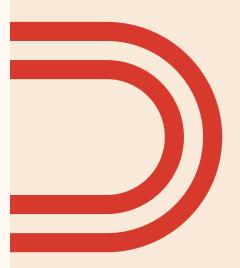
- -Nature and Landscapes: Images of scenic landscapes, mountains, forests, rivers, and natural beauty.
- -Animals and Wildlife: Pictures of various animals, from domestic pets to wildlife in their natural habitats.
- **-Travel and Adventure:** Photos from different travel destinations, adventures, and cultural experiences.
- **-Food and Cuisine:** Images of delicious dishes, recipes, and culinary creations.
- -Architecture and Buildings: Photos of architectural wonders, buildings, and cityscapes.
- **-Fashion and Style:** Images showcasing fashion trends, clothing, and accessories.
- -Art and Creativity: Artistic creations, paintings, sculptures, and other creative expressions.
- **-Technology and Gadgets:** Images of electronic devices, gadgets, and technology-related content.
- -Health and Fitness: Photos related to fitness, exercise, and a healthy lifestyle.



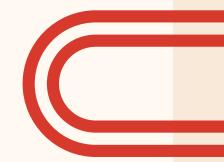


- **-History and Vintage:** Historical images, antiques, and vintage photographs.
- **-Family and Relationships:** Pictures of family gatherings, relationships, and emotional moments.
- **-Sports and Recreation:** Photos of sports activities, athletes, and recreational events.
- **-Science and Innovation:** Scientific illustrations, lab experiments, and innovative technologies.
- **-Education and Learning:** Images related to education, books, classrooms, and learning materials.
- **-Business and Finance:** Visuals of offices, financial graphs, and business-related content.
- **-Environmental Conservation:** Images highlighting environmental issues, conservation efforts, and ecosystems.
- **-Transportation and Vehicles:** Pictures of various modes of transportation, such as cars, trains, and airplanes





### Tools



#### Some of tools can be used:

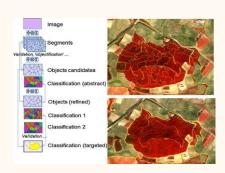
#### OpenCV (Open-Source Computer Vision Library):

• OpenCV is a powerful open-source library for computer vision and image processing. It includes pre-trained models and functions for human detection.

#### **Tesseract OCR:**

• Tesseract is an open-source OCR engine that can recognize text in images. You can use it to extract text from images and then analyze the extracted text for relevance to your study.









## FINISH