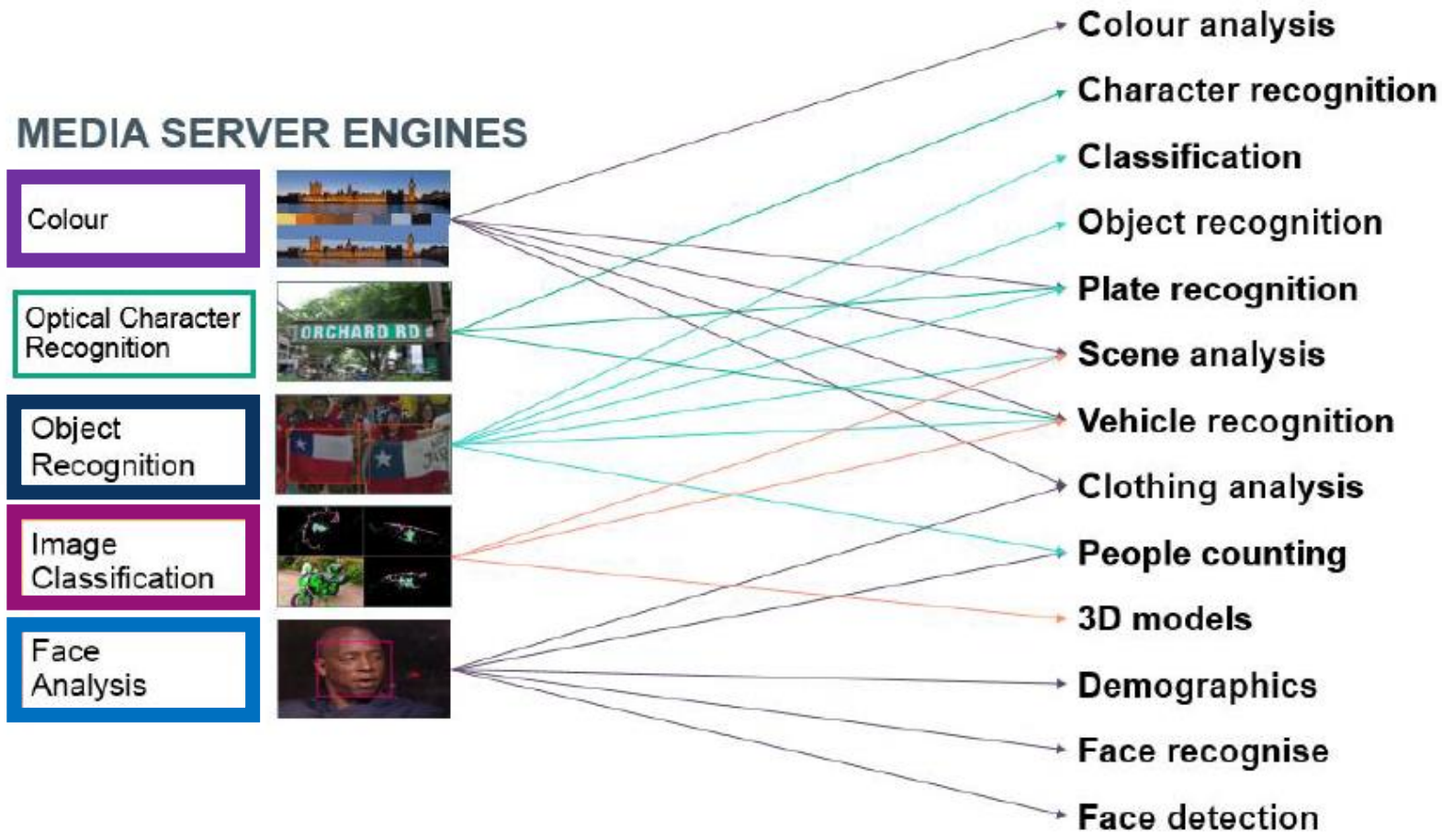
IDOL Video Analytics using Machine Learning

Advanced Video Analytics



Object Recognition

- IDOL can be trained to recognize specific objects or complex patterns in analyzed images. For example, IDOL allows a user trains a database of corporate logos to combat copyright infringement and report if it has found any matching logos from its training set. The objects can be 2D or 3D objects in images

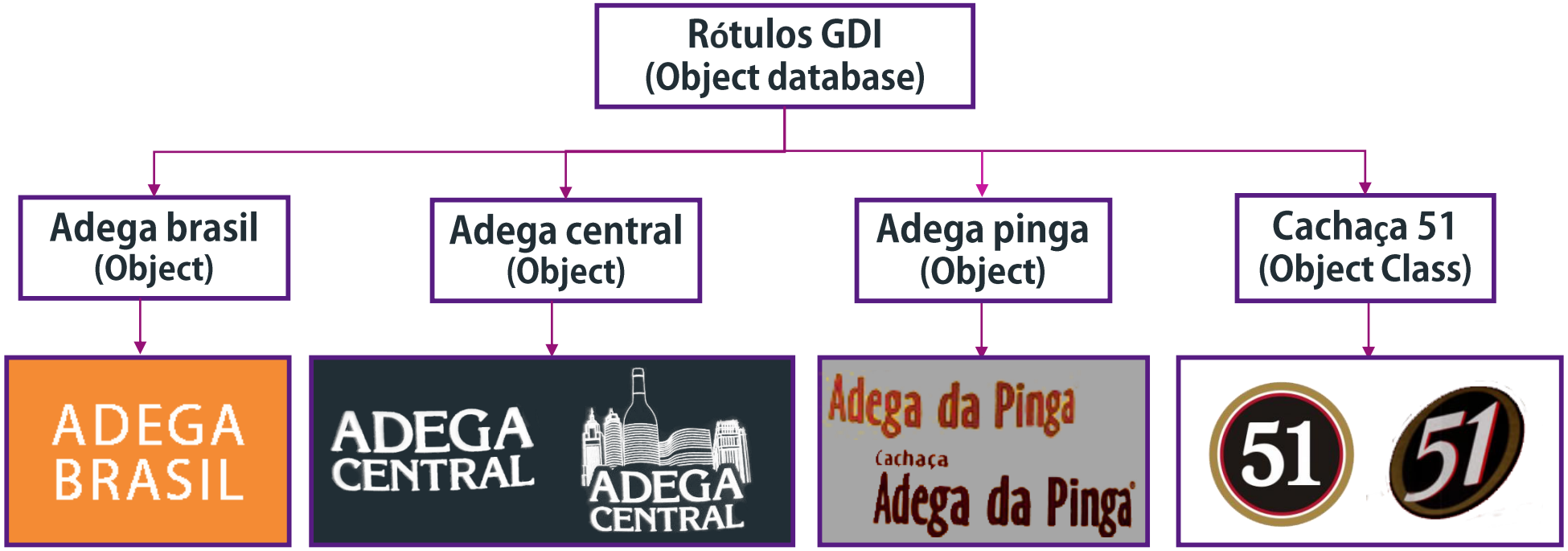
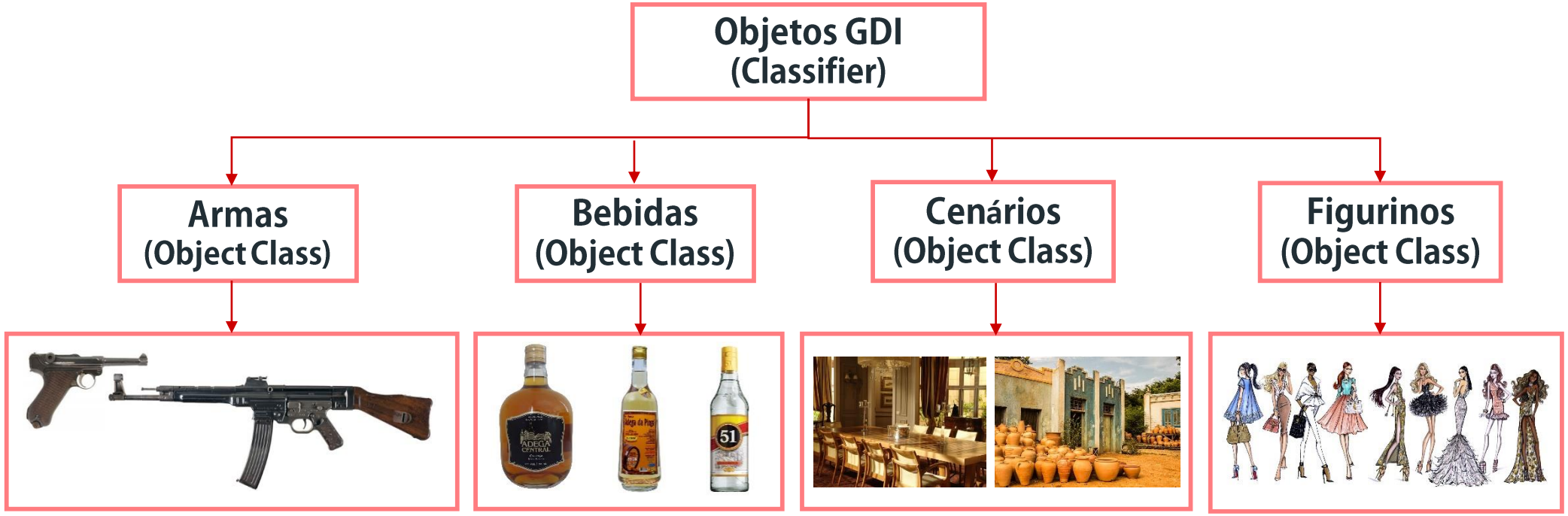


Image Classification

- Image classification automatically categorizes objects that appear in images based on previous training. For example, IDOL can be trained to recognize vehicle categories such as cars, trucks, and motorcycles. This allows users to sort images as they are analyzed and to flag certain objects.



Face Analysis

- Face detection finds faces in a given image. IDOL returns the coordinates of a detected face in a photo, as well as the position of key facial features such as the eyes. In addition to finding faces, IDOL can also compare the detected face to a database of known individuals as facial recognition features.

Clothing Color Analysis

- IDOL can locate the region of an image or video frame that contains a person's clothing. You can then use this information with other analysis tasks, for example you can run color analysis to identify the dominant colors of the clothing.

colorspace	clusters
RGB	(44.36%) (26.19%) (12.99%) (8.87%) (7.59%)
RGB	(89.1%) (10.9%)
RGB	(70.1%) (21.58%) (8.32%)

Q&A

Learn More:
https://youtu.be/zPB7CLHy8Ws