**Natural Language Processing for PDF/TIFF/Image Documents  
Computer Vision for Image Data  
VISION MODULE  
High Precision Image Processing   
Technical Specification, v1.5**

# 1 Images

## 1.1 Images Overview

The Image CV preprocessor contains the following primary classes, and their relationships:

* Images - This is the base class for the representation of a Computer Vision (CV) preprocessed list of images. The constructor optionally takes as parameters a list of images (paths), and corresponding labels, and flags for CV preprocessing the images.

images = Images([<list of images>], flags …)

* <Category>Image – This is a derived class for the representation of a category specific images, such as medical imaging data. It inherits from the Image base class.
* Image – This is the base class for the representation of a single Computer Vision (CV). The constructor optionally takes as parameters an image (path), corresponding label, and flags for CV preprocessing the image.

**Image**

**Images (Base Class)**

**Image**

**<Category>Images (Derived Class)**

**Image**

**List**

**Fig. 1a High Level view of Images Class Object Relationships**

## 1.2 Images Properties

The Images class contains the following properties:

* dir – Location to store the CV preprocessed image data.
* class – The classification for the list (batch) of images.

## 1.3 Images Overridden Operators

The following operators have their implementations (inherited from the base Object) class overridden:

* There are no overridden operators.

## 1.4 Images Private Methods

The Images class contains the following private methods:

* TBD

## 1.5 Images Public Methods

The Images class contains the following public methods:

* There are no public methods.

# 2 Image

## 2.1 Image Overview

## APPENDIX I: Updates

*v1.4*

# APPENDIX II: Anticipated Engineering

The following has been identified as enhancement/issues to be addressed in subsequent update:

1. Add support for splitting dual column pages.
2. Add support for splitting paragraphs.
3. Add support for splitting headings.

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