Practical 1.2

An overview on Torch's image package

Torch's image package

- https://github.com/torch/image
- image is the Torch7 package for processing images
 - Saving and loading JPEG, PNG, PPM and PGM
 - Simple transformations like translation, scaling and rotation
 - Parameterised transformations like convolutions and warping
 - Simple Drawing Routines like drawing text or a rectangle on an image
 - Graphical user interfaces like display and window
 - Colour Space Conversions from and to RGB, YUV, Lab, and HSL
 - Tensor Constructors for creating Lenna, Gaussian and Laplacian kernels

Overview (I)

- luarocks list | install
- qlua -lenv
- image.load()
- The = operator
- image.scale()
- image.display()
- Tensor:clone()
- Tensor:fill()

Overview (II)

- image.display{image,legend,zoom,nrow,padding}
- image.toDisplayTensor{input, and like above }
- image.savePNG(fileName, image)
- image.crop(image, x0, y0, x1, y1)
- Colour space conversions
- image.drawText(image, text, x, y, { format })
- image.drawRect(image, x0,y0,x1,y1, { format })