

# The (very) Short Python Imaging Library Talk

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# Talk Outline

- ◇ The Overview
- ◇ The Basic stuff
- ◇ The New stuff in 1.1.6

# The Overview

- ◇ Standard library of Image handling routines for python
- ◇ Initial release 1995, current version 1.1.6 (released Dec 2006)
- ◇ mainly maintained by Secret Labs
- ◇ Commercial versions and support available
- ◇ Standard version available under old-style python license

# The Basics

- ◇ Image IO, resize, etc.
- ◇ Image Filters
- ◇ Drawing
- ◇ Region base stats

## More of the Basics

◇ Image Transformations - Affine, Quad, etc.

▷ Affine: `Image.transform((a,b,c,d,e,f))`

$$\begin{bmatrix} x_{new} \\ y_{new} \end{bmatrix} = \begin{bmatrix} a & b \\ d & e \end{bmatrix} \begin{bmatrix} x_{orig} \\ y_{orig} \end{bmatrix} + \begin{bmatrix} c \\ f \end{bmatrix}$$

◇ ImageOps

▷ Channel Operations, Colourspace conversions, point operations

## New in 1.1.6

- ◇ ImageMath

- ◇ array interface

```
import numpy as N
```

```
a=N.asarray(im)
```

```
b=Image.fromarray(a)
```