
Subject: Re: image data extraction

Posted by [landers](#) on Fri, 03 Jun 1994 13:39:24 GMT

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Finding image data along a line...

This just picks points from the image. It doesn't do any image interpolation or anything like that. Just finds the closest x,y to the line.

Just some code fragments I sucked out of one of my codes:

```
; Line endpoints are (x1,y1), (x2,y2) (these are indices into the image)
; image size is (Mx,My)
```

```
; There are two methods here. The first works better for more
; horizontal cuts, the second for more vertical. You could put a test
; on the slope of the line, and choose your method accordingly.
```

```
.....
; Horizontal cuts:
; first figure out how many points you want to grab between the ends.
```

```
Nx = Abs( x2 - x1 ) > 1
```

```
Ny = Abs( y2 - y1 )
```

```
; find the x and y indices into the image along the cut
; get one point for every x pixel in the cut line, and figure the
; corresponding y points
```

```
thex = Long( Lindgen( Nx + 1 ) + x1 )
```

```
they = Long( Lindgen( Nx + 1 ) * Float(Ny)/Nx + y1 )
```

```
image_line = image( they * Mx + thex )
```

```
.....
; Vertical cuts:
```

```
Nx = Abs( x2 - x1 )
```

```
Ny = Abs( y2 - y1 ) > 1
```

```
; get one point for every y pixel in the cut line
```

```
thex = Long( Lindgen( Ny + 1 ) * Float(Nx)/Ny + x1 )
```

```
they = Long( Lindgen( Ny + 1 ) + y1 )
```

```
image_line = image( they * Mx + thex )
```

;Dave
