
Subject: Re: make mape

Posted by [Markus Schmassmann](#) on Fri, 08 Sep 2017 09:56:28 GMT

[View Forum Message](#) <> [Reply to Message](#)

On 09/07/2017 06:56 PM, AGW wrote:

> On Tuesday, September 5, 2017 at 2:05:03 PM UTC+2, AGW wrote:

>> Hi,

>>

>> I have 10000 values of h at specific 10000 values of x and y, every

>> values stored in idlsave file, I want to combine all values of h

>> at specific x,y in new array take this form

>>

>> hh=[x,y,h]

>>

>> where

>>

>> IDL> help,h

>> h FLOAT = Array[1, 1, 56]

>

> Sorry for this confusion, I have map 500 x 1000 pixels, I want to

> calculate the velocity of some pixels, I calculate it correctly, I

> want to make map of velocity, but the problem is I did not calculate

> all pixels so I want to put the new values of velocity in origin

> position (x & y). How can I do it

; Creating example data:

x_all=randomu(seed,10000)

y_all=randomu(seed,10000)

x=[0:1:(1./499)]

y=[0:1:(1./999)]

values_all=sin(!dpi*2*x_all)*cos(!dpi*2*y_all)

; Data for 10000 points calculated:

IDL> help, x_all, y_all, value_all

X_ALL FLOAT = Array[10000]

y_ALL FLOAT = Array[10000]

VALUE_ALL FLOAT = Array[10000]

; and the coordinates of your desired map is given by

IDL> help, x, y

X FLOAT = Array[500]

Y FLOAT = Array[1000]

; then you can create your map by

yourMap = GRIDDATA(x_all, y_all, values_all , /grid, xout=x, yout=y)

; exact for comparison

```
exact=rebin(      sin(!dpi*2*x) ,[500,1000])* $  
      rebin(transpose(cos(!dpi*2*y)),[500,1000])
```

```
; show
```

```
im=image([yourMap,exact,yourMap-exact])
```

```
; I hope this is what you want,  good luck,   Markus
```
