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convert image from uint8 to double

Asked by S on 26 May 2011
Latest activity Commented on by Image Analyst on 2 Mar 2015

Hi,

Could someone tells me the difference between 'I=im2double(I);' and 'I=double(I);'. I have a simple image called 'I' with the following properties

Name Size Bytes Class Attributes

```
I         512x512              262144  uint8
```

when I apply the first command it gives me the following error message:

??? Undefined function or method 'im2double' for input arguments of type 'uint8'.

But the second command is ok. Why?

I appreciate your help

S:)

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Answer by Steve Eddins on 26 May 2011

You are getting the message "Undefined function or method 'im2double' ..." because that function is part of the Image Processing Toolbox, not MATLAB. Either you don't have the Image Processing Toolbox, or it is not installed correctly.

The function im2double scales the output double-precision values to the range [0.0, 1.0]. The function uint8 does not do this scaling.

1 Comment

Sean de Wolski on 26 May 2011

Personally, I avoid im2double for this very reason. ;)

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Answer by chythanya vasudevan on 2 Mar 2015

Hi Could anyone tell me how to find the entropy and absolute mean brightness error (AMBE) of an image whose dimension is 680* 741 pixels and bit depth 24 ?

1 Comment

Image Analyst on 2 Mar 2015

This question is not related to the original question in this thread. Start a new discussion with this question. Also define AMBE (since I've never heard of it before), attach your image, and say why entropy() or entropyfilt() don't work for you.