
Subject: IDL eps outpt converted to png for MS PowerPoint

Posted by [newbie16](#) on Fri, 28 Apr 2006 15:43:24 GMT

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

Hi All:

Recently I found myself having to convert *a lot* of eps figures I created using IDL into png format for a PowerPoint presentation. Well, this was kinda a pain to do, so I wrote a couple of small BASH shell scripts to ease the whole process. I provide below:

- (1) A small README file
- (2) "idl2ppt.sh" the main workhorse
- (3) "make_runall.sh" calls idl2ppt.sh to make many png files

Please note that they work for a Linux workstation where ImageMagick's "convert" funtion is installed.

I hope someone finds these useful!

Cheers,

tyler

====> The files

The small shell script idl2ppt.sh is used to convert the figures in its

current directory to PNG format for use in PowerPoint presentations.

For

many files to be converted at once (most likely case), just run the make_runall.sh script and walk away.

USAGE: For single files, just use idl2ppt.sh without arguments for help.

For multiple files, run make_runall.sh.

EXAMPLES

FOR MANY FILES:

\$ sh make_runall.sh <--- Uses default density of 900

FOR A SINGLE FILE:

N.B.: []-optional density argument as a number

```
$ sh idl2ppt.sh <filename.eps> [####]
```

```
# *** End of file: README_idl2ppt.txt *** #
```

==> The next file

```
#!/bin/sh
```

```
#
```

```
# This file was created on the 22 March, 2006, by Tyler Hayes
```

```
#
```

```
# To convert many eps output files from IDL into something usable by  
# PowerPoint is typically a pain in the ass. I wrote this BASH script  
# to save time and energy.
```

```
#
```

```
# Typically I output EPS files from IDL so I can insert them into a  
LaTeX
```

```
# document with relative ease. However, for presentation purposes, I  
# prefer to use PowerPoint. Unfortunately, PowerPoint doesn't like  
# EPS files. So what to do? Well, on Linux machines, we can use  
# the wonderfull command "convert" from ImageMagick.
```

```
#
```

```
# The method I use is a modified version of the one found in the  
# document "makeps.ps" by Carl Heiles and Tim Robishaw
```

```
#
```

```
#####
```

```
# Check for proper input and that the file exists!
```

```
#####
```

```
if [ $# -lt 1 ]
```

```
then
```

```
# Proper usage output
```

```
echo "
```

```
echo =====
```

```
echo Hey, Bozo!
```

```
echo
```

```
echo Usage\: 'sh idl2ppt.sh' \[<datafile>\] \[<density>\]
```

```
echo ''
```

```
echo '    'Where \<datafile> is the EPS figure from IDL, and
```

```
echo '    'the \<density> is a number such as 600 or 1200.
```

```
echo '    'The default value is set to 800.
```

```
echo "
```

```
echo =====
```

```
echo "
```

```
exit 0
```

```
else
```

```
ls $1 2> /dev/null | grep $1 > /dev/null
```

```

# Making sure the file exists in the directory
if [ $? != 0 ]
then
echo ' '
echo =====
echo Buddy, you're killin' me...Where's \"$1\"
echo =====
echo ' '
exit 0
fi
fi

# Create the variables to be pumped into convert
#####
infile=$1
if [ $# -ne 2 ]
then
dens=800
else
dens=$2
fi

# Set the default density value
density=`echo -density $dens`

# Change this line to get the extension type you want if other than PNG
outfile=`echo $infile | awk -F"." '{print $1".png"}'`

# Use ImageMagick's CONVERT function
#####
convert -antialias $density $infile $outfile

if [ $? = 0 ]
then
echo ' '
echo =====
echo $infile converted to PNG format.
echo =====
echo ' '
exit 0
fi

echo Exiting
exit 0

# *** End of file: idl2ppt.sh *** #

```

====> The last file

```
#!/bin/sh
#
# This file was created on the 22 March, 2006, by Tyler Hayes
#
# This file will creates the runall.sh file to create many PNG figures
from
# the EPS files. You MUST have idl2ppt.sh in this directory.
#
#####

# Create variables
echo " "
echo Creating variables...
echo " "
all=`echo runall.sh` # The name of the script to runall figs!
epslist=/tmp/eps$$ # The temporary file of eps figure names
echo Listing all EPS files in the current directory...
echo " "
ls *.eps > $epslist

# Prepend the idl2ppt.sh command to ls *.eps
awk '{print "sh idl2ppt.sh",$1}' $epslist >> $all
echo $USER, now running \"$all\".
echo Be sure to have idl2ppt.sh in your current directory.
echo " "

# Run the newly made shell script
sh $all

# Remove unwanted files
echo Removing dummy list
rm $epslist

# Remove unwanted files and exit
echo Removing dummy shell script file
rm runall.sh

# Exit program
echo Now exiting. Goodbye $USER.
echo " "
exit 0
```

```
# *** End of file: make_runall.sh *** #
```
