SHOW COLORS

PURPOSE
List the colors (and corresponding index numbers) available in DATAPLOT.

DESCRIPTION
DATAPLOT allows colors to be specified by name or by an index number. All devices recognize the same color names and index numbers and there is a consistent mapping from an index number to a color (e.g., index 1 always goes to black, index 2 always goes to red). Devices that do not support a given color map it to the closest available color. Closest is an arbitrary and device dependent choice. Specifying a device on this command shows the mapping from the DATAPLOT color to the color that is actually used on the device.

The color names will be printed on the terminal screen 24 lines at a time. You can enter NO (or N) to terminate the listing. There will be 88 colors listed.

SYNTAX 1
SHOW COLORS
This syntax lists the color names and their associated index numbers recognized by DATAPLOT.

SYNTAX 2
SHOW COLORS <device>
where <device> is one of the following:
   CALCOMP
   CGM
   HP 2622
   HPGL
   PC
   POSTSCRIPT
   REGIS
   SUN
   TEKTRONIX 4115
   TEKTRONIX 4662
   TEKTRONIX 4027
   X11
   ZETA.

This syntax shows the mapping from the DATAPLOT color to the actual color used on the given device.

EXAMPLES
SHOW COLORS
SHOW COLORS POSTSCRIPT
SHOW COLORS TEKTRONIX 4115

NOTE
In previous versions, specifying a color by index would select the slot number on penplotter devices. This is no longer the case. The index number now goes to a specific color, which then goes to the slot assigned to that color. While this is less intuitive for plotters, it allows color names and indices to be treated consistently across devices (e.g., index 1 means BLACK on all devices). The PEN MAP command can still be used to assign a color to a specific slot number for plotter devices (HPGL, CALCOMP, and ZETA).

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZETA</td>
<td>Direct graphical output to a Zeta device.</td>
</tr>
<tr>
<td>POSTSCRIPT</td>
<td>Direct graphical output to a Postscript device.</td>
</tr>
<tr>
<td>TEKTRONIX</td>
<td>Direct graphical output to a Tektronix device.</td>
</tr>
</tbody>
</table>
DEVICE = Specify certain actions for the graphics output.
PEN MAP = Specify the pen slot to color mapping for certain plotter devices.

APPLICATIONS
Color specification

IMPLEMENTATION DATE
92/8

PROGRAM
SHOW COLORS

The following is the first screen of output generated.

THE FOLLOWING IS A LIST OF COLORS THAT DATAPLOT CURRENTLY RECOGNIZES. ALL DEVICES RECOGNIZE THE SAME COLOR NAMES. HOWEVER, MOST DEVICES ONLY SUPPORT A SUBSET OF THIS LIST. AN UNSUPPORTED COLOR WILL BE MAPPED TO A SUPPORTED COLOR. IN ADDITION, GRAY SCALE CAN BE REQUESTED BY USING G0 (BLACK) THROUGH G100 (WHITE). HOWEVER, ONLY A FEW DEVICES ACTUALLY SUPPORT GRAY SCALE (POSTSCRIPT, X11). OTHER DEVICES WILL MAP ALL GRAY SCALES TO EITHER BLACK OR WHITE.

SUPPORTED COLORS:

<table>
<thead>
<tr>
<th>COLOR</th>
<th>NAME</th>
<th>INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>WHITE</td>
<td>0</td>
</tr>
<tr>
<td>Black</td>
<td>BLACK</td>
<td>1</td>
</tr>
<tr>
<td>Red</td>
<td>RED</td>
<td>2</td>
</tr>
<tr>
<td>Blue</td>
<td>BLUE</td>
<td>3</td>
</tr>
<tr>
<td>Green</td>
<td>GREEN</td>
<td>4</td>
</tr>
<tr>
<td>Magenta</td>
<td>MAGENTA</td>
<td>5</td>
</tr>
<tr>
<td>Orange</td>
<td>ORANGE</td>
<td>6</td>
</tr>
<tr>
<td>Cyan</td>
<td>CYAN</td>
<td>7</td>
</tr>
<tr>
<td>Yellow</td>
<td>YELLOW</td>
<td>8</td>
</tr>
<tr>
<td>Yellow Green</td>
<td>YGRE</td>
<td>9</td>
</tr>
</tbody>
</table>

MORE...?