
KnotPlot -- question about coloring

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Setting colours for different components can be done in a number of different ways in KnotPlot.

1) by named colour:

Most common colours are available, you can colour individual components by specifying the component number and colour name:

```
colour 0 brown
colour 1 red
colour 2 purple
```

or colour all components at the same time

```
colour all pink
```

or a range of components

```
chain 14
colour all royalblue
colour 6 9 orange
```

etc... you can find the list of named colours in KNOTPLOT_HOME/resource/rgb.txt they are essentially the X-Windows colour set, with a few additions.

https://en.wikipedia.org/wiki/X11_color_names

Named colours are case insensitive and spaces are ignored, so all of the following are the same:

```
colour 0 RoyalBlue
colour 0 roYaLbLUE
colour 0 "royal blue"
```

and so on.

2) by hue / saturation / value:

```
colour 0 hsv:22/1/1
```

where $0 \leq h \leq 360$, $0 \leq s \leq 1$, $0 \leq v \leq 1$

3) by red / green / blue floating point numbers:

colour 2 rgb:.3/.5/1

where $0 \leq r \leq 1$, $0 \leq g \leq 1$, $0 \leq b \leq 1$

4) by red / green / blue integers:

colour 0 rgbi:102/108/54

where $0 \leq r \leq 255$, $0 \leq g \leq 255$, $0 \leq b \leq 255$

note: for the hsv, rgb, rgbi methods, no spaces are allowed in the colour name

5) by the CSV standard:

colour all #ff00ff

colour 2 #4FA

see the CSV spec, colours are either RGB hex triplets or RRGGBB hex-hextuplets.

You can also use the same scheme to set the background colour, for example

background = white

which might look better for print.