

PSTricks

pst-dart

Plotting a Dart ; v.0.03

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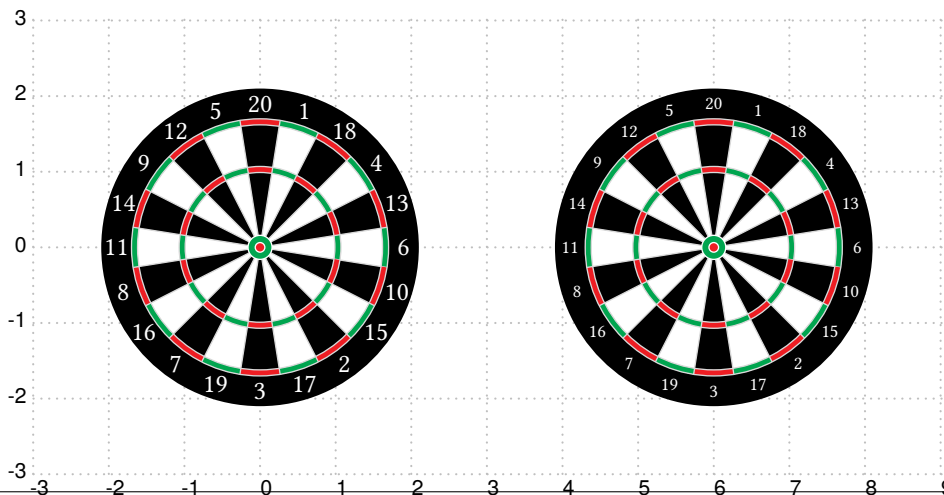
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1 Syntax of `\psDart`

```
\psDartBoard [Options] (x_0, y_0)
```

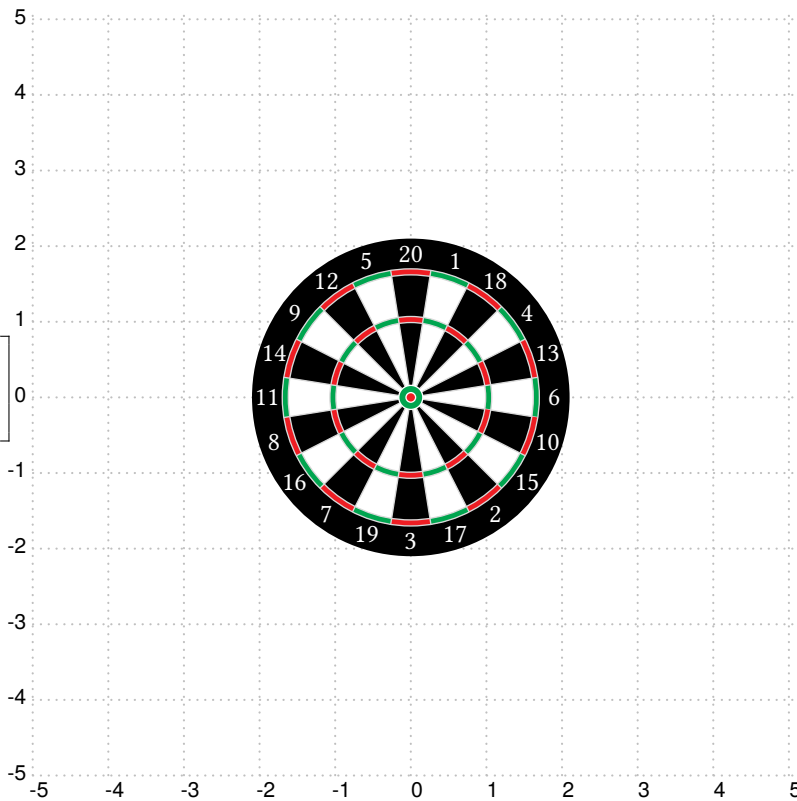
2 Examples

2.1 The default size



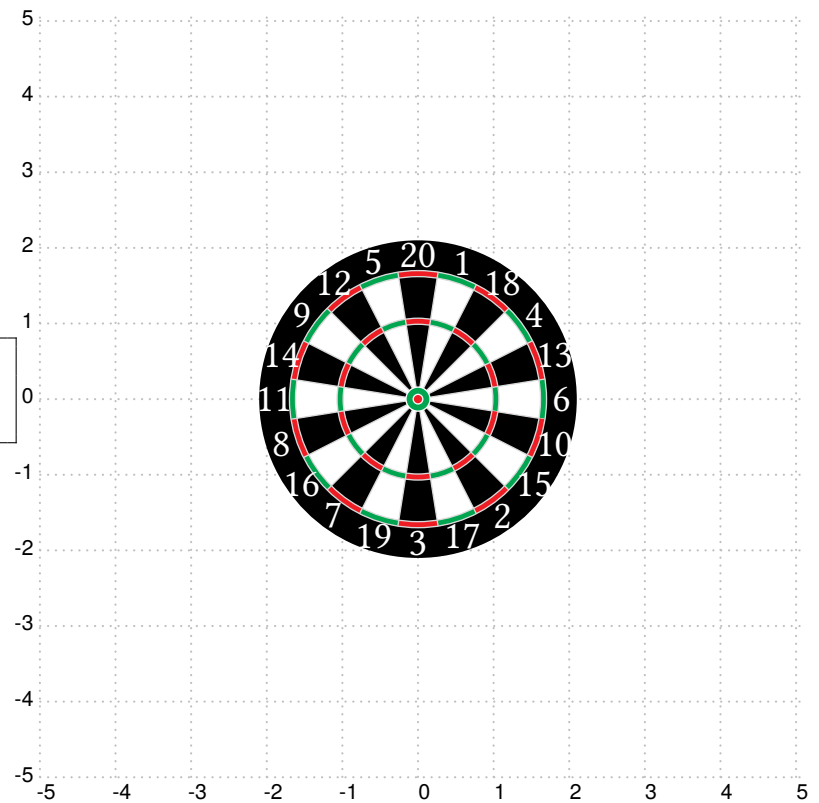
```
\begin{pspicture}[showgrid](-3,-3)(9,3)
\psDartBoard % The default Dartboard (radius=2.1cm)
\psDartBoard[fontsize=7pt](6cm,0)
\end{pspicture}
```

2.2 Scaling



```
\begin{pspicture}[showgrid](-5,-5)(5,5)
\psDartBoard[unit=2]
\end{pspicture}
```

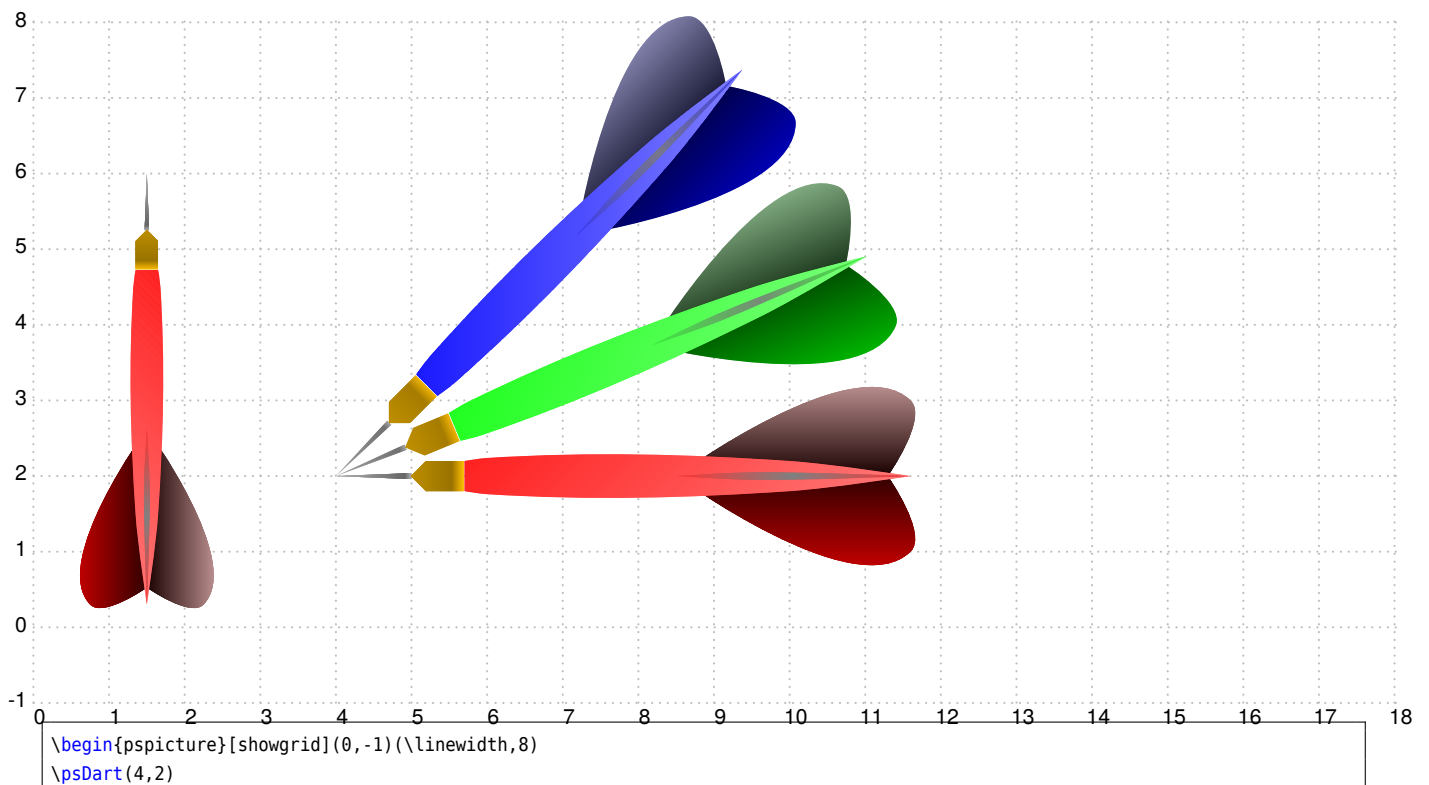
```
\begin{pspicture}[showgrid](-5,-5)(5,5)
\psDartBoard[fontsize=15pt,unit=2]
\end{pspicture}
```



2.3 Space

`\psDartBoard` itself uses internally already an environment `pspicture` which reserves the space. But an internal `\rput` command places the dartboard without specifying coordinates at the origin which is the reason why one has to reserve space with an additional environment `pspicture` as can be seen in the above examples..

3 Darts

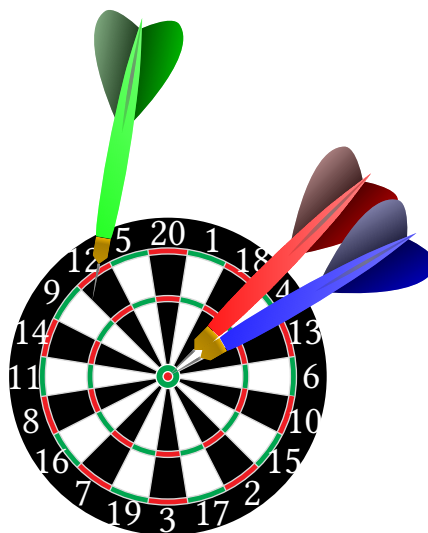


```

\psDart[dartcolor=green,rot=22.50](4,2)
\psDart[dartcolor=blue,rot=45](4,2)
\psDart[rot=-90,unit=0.75](2,8)
\end{pspicture}

```

4 Board and Darts



```

\begin{pspicture}(-5,-5)(5,5)
\psDartBoard[fontsize=15pt,unit=2]
\psDart[rot=45,unit=0.5](0,0)
\psDart[rot=30,unit=0.5,dartcolor=blue](0,0)
\psDart[rot=80,unit=0.5,dartcolor=green](-2,2)
\end{pspicture}

```

5 Changing the viewpoint

You can change the viewpoint with the optional argument `viewpoint` which expects three space separated values for $x y z$, where at least one value must be unless 0.



```

\begin{pspicture}(-2,-3)(12,4)
\psDartBoard[boardview=1 0 0,fontsize=18pt,unit=1.5]
\psDart[unit=0.5,rot=110](1,-1)
%%
\psDartBoard[boardview=1 0 1,fontsize=18pt,unit=1.5](10cm,0)
\psDart[unit=0.5,rot=50](9cm,-1cm)
\end{pspicture}

```

6 List of all optional arguments for pst-dart

Key	Type	Default
preCode	ordinary	
postCode	ordinary	
boardview	ordinary	
fontsize	ordinary	10pt
dartcolor	ordinary	red

References

- [1] Denis Girou. “Présentation de PSTricks”. in *Cahier GUTenberg*: 16 (april 1994), pages 21–70.
- [2] Michel Goossens **and others**. *The L^AT_EX Graphics Companion*. 2 edition. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
- [3] Herbert Voß. *PSTricks – Grafik für T_EX und L^AT_EX*. 7 edition. Heidelberg and Berlin, 2016.
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- [5] Timothy van Zandt. *multido.tex - a loop macro, that supports fixed-point addition*. 1997. URL: </graphics/pstricks/generic/multido.tex>.
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- [7] Timothy van Zandt **and** Denis Girou. “Inside PSTricks”. in *TUGboat*: 15 (september 1994), pages 239–246.

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