# **PSTricks**

pst-dart

Plotting a Dart; v.0.03

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Package author(s):
Thomas Söll
Herbert Voß

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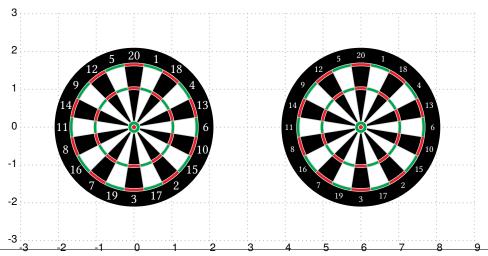
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### 1 Syntax of \psDart

 $\verb|\psDartBoard| [Options]| (x_0,y_0)$ 

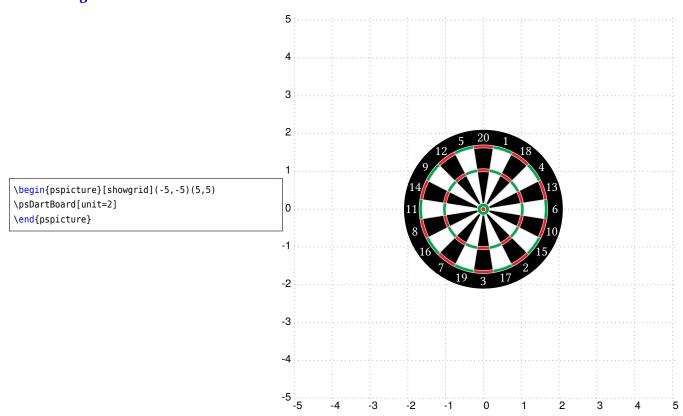
# 2 Examples

### 2.1 The default size

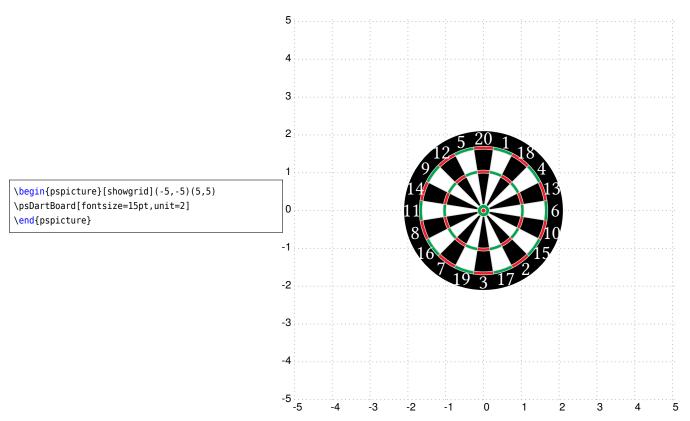


\begin{pspicture}[showgrid](-3,-3)(9,3)
\psDartBoard % The default Dartboard (radius=2.1cm)
\psDartBoard[fontsize=7pt](6cm,0)
\end{pspicture}

# 2.2 Scaling

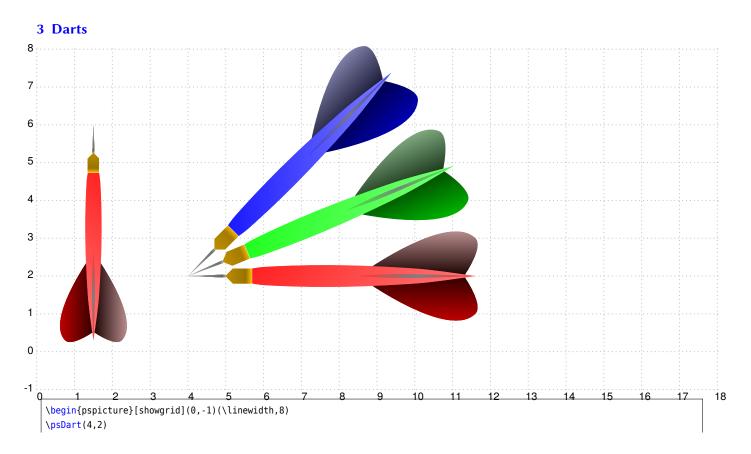


4 3 Darts



# 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..



```
\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 Goosens **andothers**. *The LATEX Graphics Companion*. 2 **edition**. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
- [3] Herbert Voß. PSTricks Grafik für TEX und LATEX. 7 edition. Heidelberg and Berlin, 2016.
- [4] Herbert Voß. PSTricks Graphics for TeX and LATeX. Cambridge: UIT, 2011.
- [5] Timothy van Zandt. multido. tex a loop macro, that supports fixed-point addition. 1997. URL: /graphics/ps tricks/generic/multido.tex.
- [6] Timothy van Zandt. *PSTricks PostScript macros for generic T<sub>E</sub>X*. 1993. URL: http://www.tug.org/application/PSTricks.
- [7] Timothy van Zandt and Denis Girou. "Inside PSTricks". in TUGboat: 15 (september 1994), pages 239–246.

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