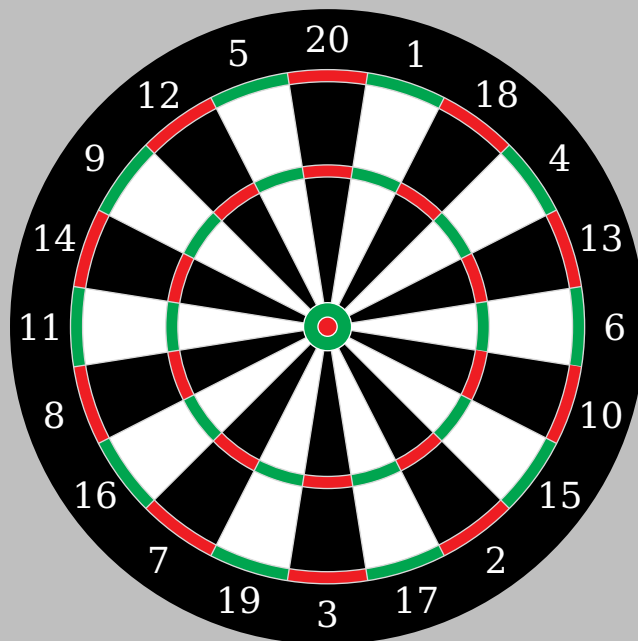


PSTricks

pst-dart

Plotting a Dart ; v.0.02

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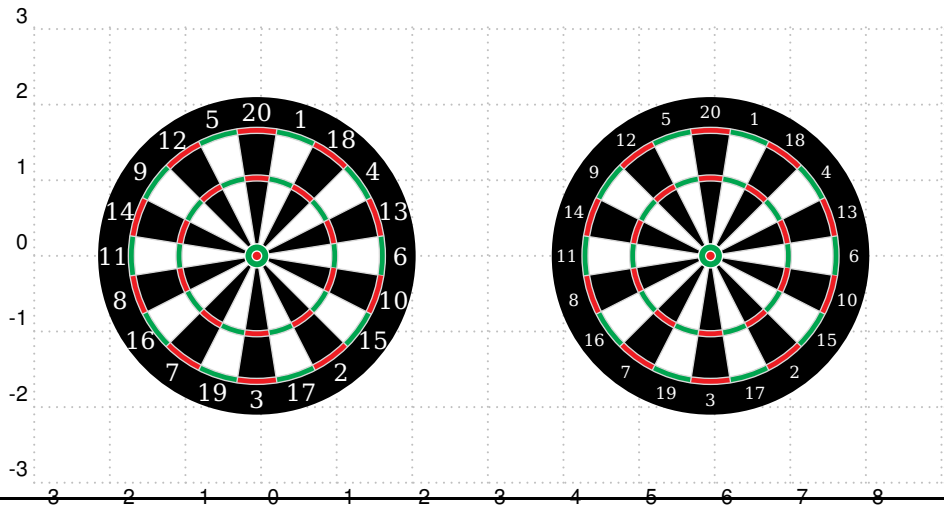
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1 Syntax of \psDart

```
\psDartBoard [Options] (x0, y0)
```

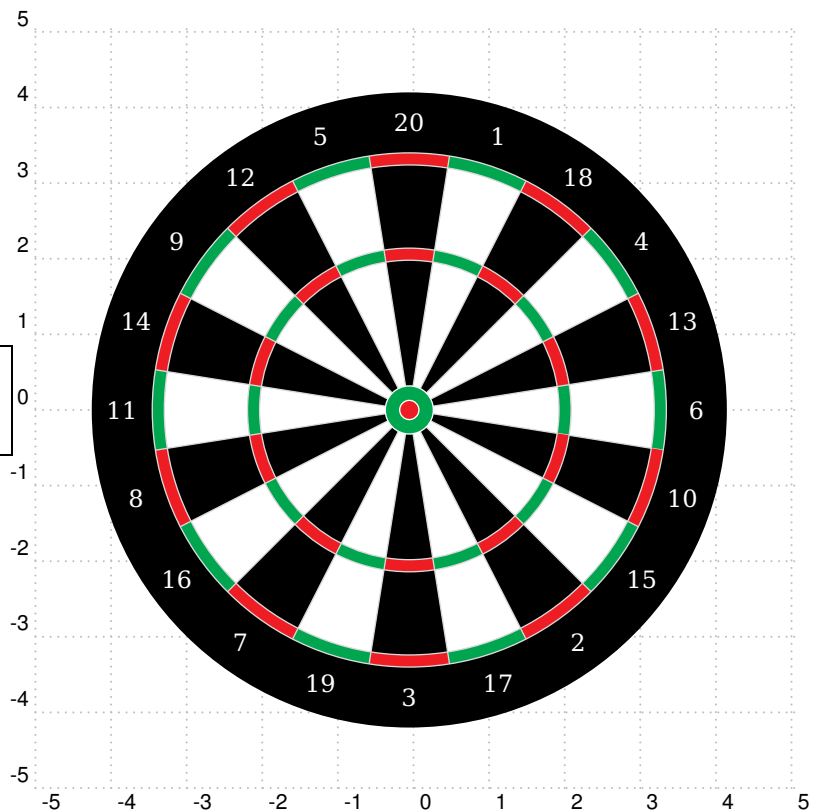
2 Examples

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

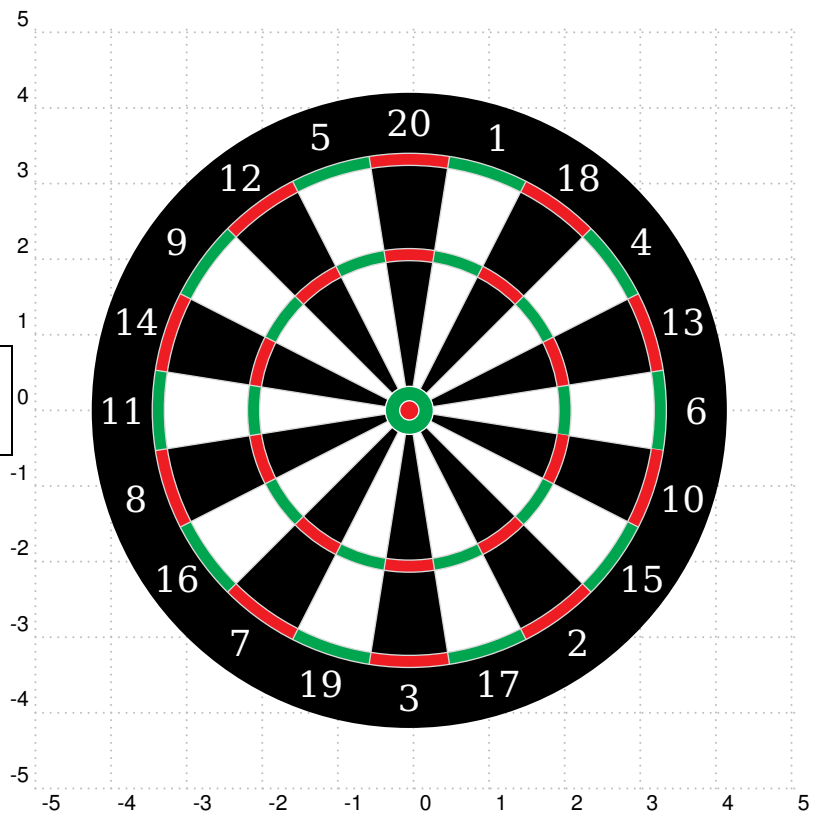


```
\begin{pspicture}[showgrid](-5,-5)(5,5)
\psDartBoard[unit=2]
\end{pspicture}
```

```

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

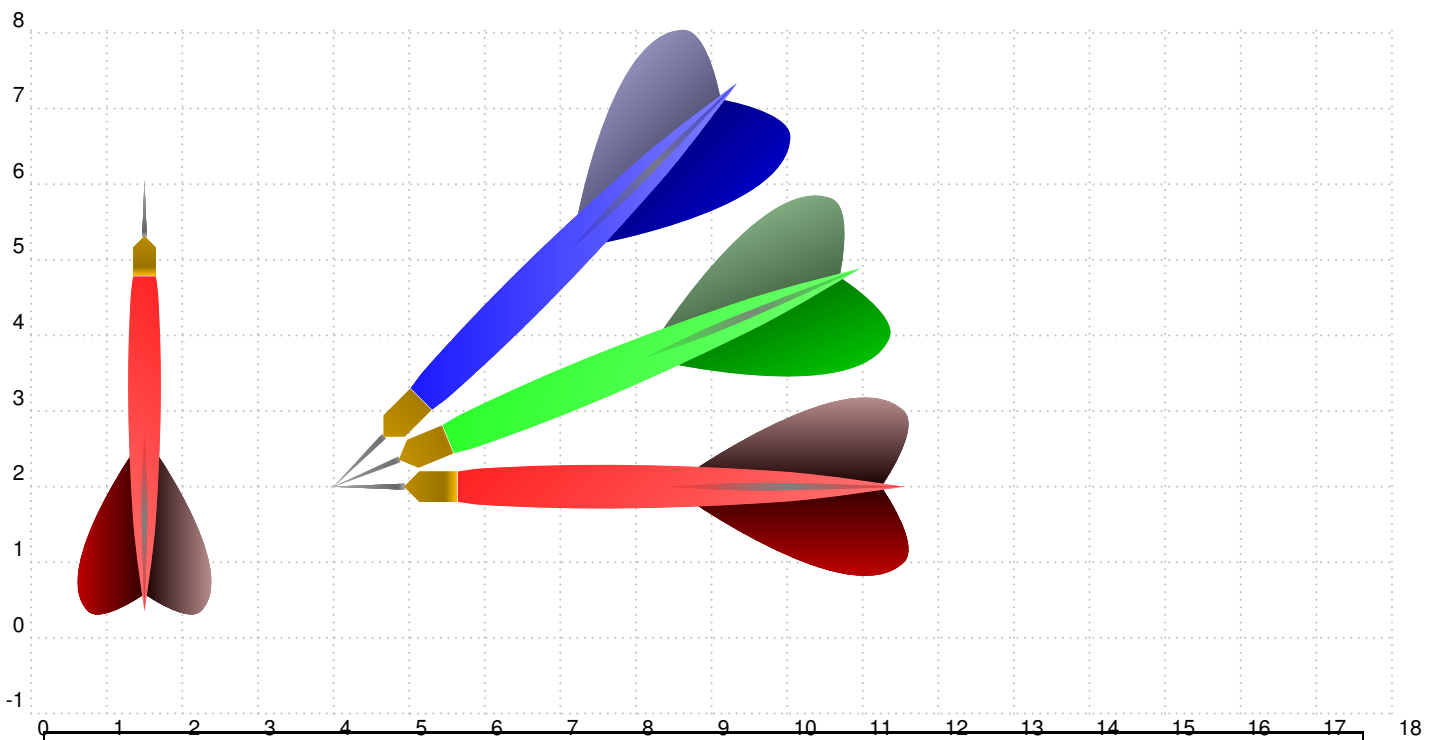
```



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

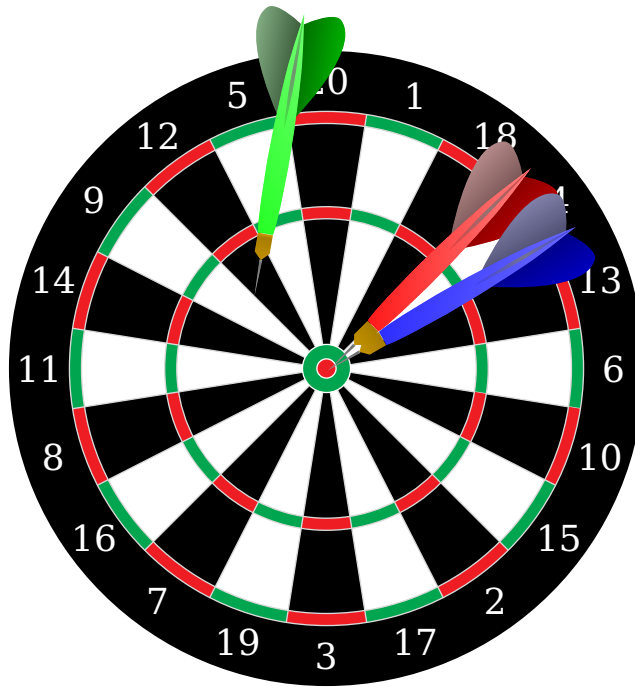


```

\begin{pspicture}[showgrid](0,-1)(\linewidth,8)
\psDart(4,2)
\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



```

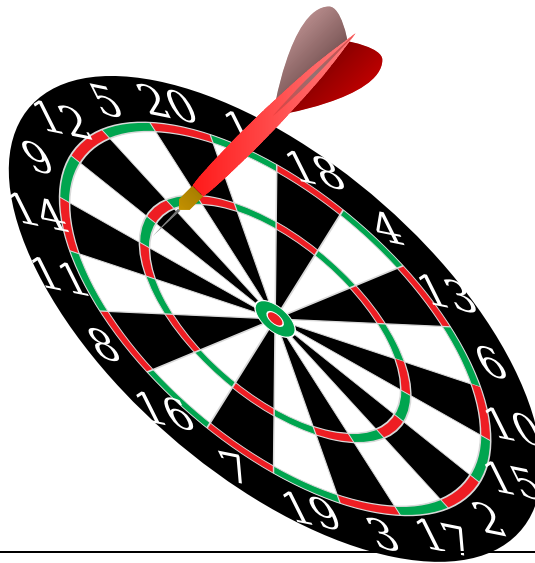
\begin{pspicture}(-5,-5)(5,5)
\psDartBoard[fontsize=15pt,unit=2]
\psDart[rot=45,unit=0.5](0,0)
\psDart[rot=30,unit=0.5,dartcolor=blue](0,0)
\psDart[rot=80,unit=0.5,dartcolor=green](-2,2)
\end{pspicture}

```

5 Changing the viewpoint

You can change the viewpoint with the two optional arguments `preCode`¹ which allow to change the transformation matrix of PostScript. However, it does *not* work with $\text{Xe}_{\text{L}}\text{A}_{\text{T}}\text{E}_{\text{X}}$, you have to choose the Sequenz `latex`→`dvips`→`ps2pdf`.

¹ There is also a `postCode`, which is not of real interest here.



```
\begin{pspicture}(-4.5,-4.5)(4.5,4.5)
\psDartBoard[preCode={ [1 0.2 0.5 1 0 0 ] concat },fontSize=18pt,unit=1.5]
\psDart[unit=0.5,rot=45](1,-1)
\end{pspicture}
```

6 List of all optional arguments for pst-dart

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

References

- [1] Denis Girou. “Présentation de PSTricks”. In: *Cahier GUTenberg* 16 (Apr. 1994), pp. 21–70.
- [2] Michel Goosens et al. *The L^AT_EX Graphics Companion*. 2nd ed. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
- [3] Herbert Voß. *PSTricks – Grafik für T_EX und L^AT_EX*. 7th ed. Heidelberg and Berlin, 2016.
- [4] Herbert Voß. *PSTricks – Graphics for T_EX and L^AT_EX*. Cambridge: UIT, 2011.
- [5] Timothy van Zandt. *multido.tex - a loop macro, that supports fixed-point addition*. 1997. URL: </graphics/pstricks/generic/multido.tex>.
- [6] Timothy van Zandt. *PSTricks - PostScript macros for generic T_EX*. 1993. URL: <http://www.tug.org/application/PSTricks>.
- [7] Timothy van Zandt and Denis Girou. “Inside PSTricks”. In: *TUGboat* 15 (Sept. 1994), pp. 239–246.

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