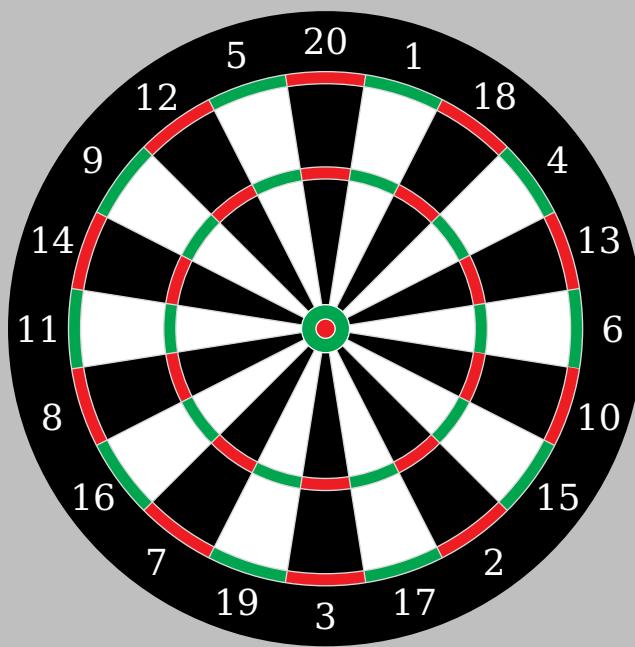


PSTricks

pst-dart

Plotting a Dart ; v.0.02

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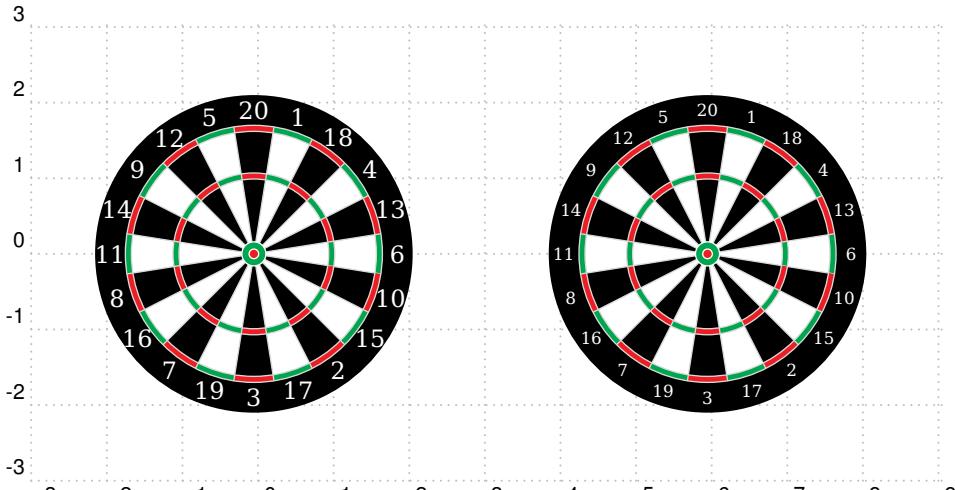
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1 Syntax of `\psDart`

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

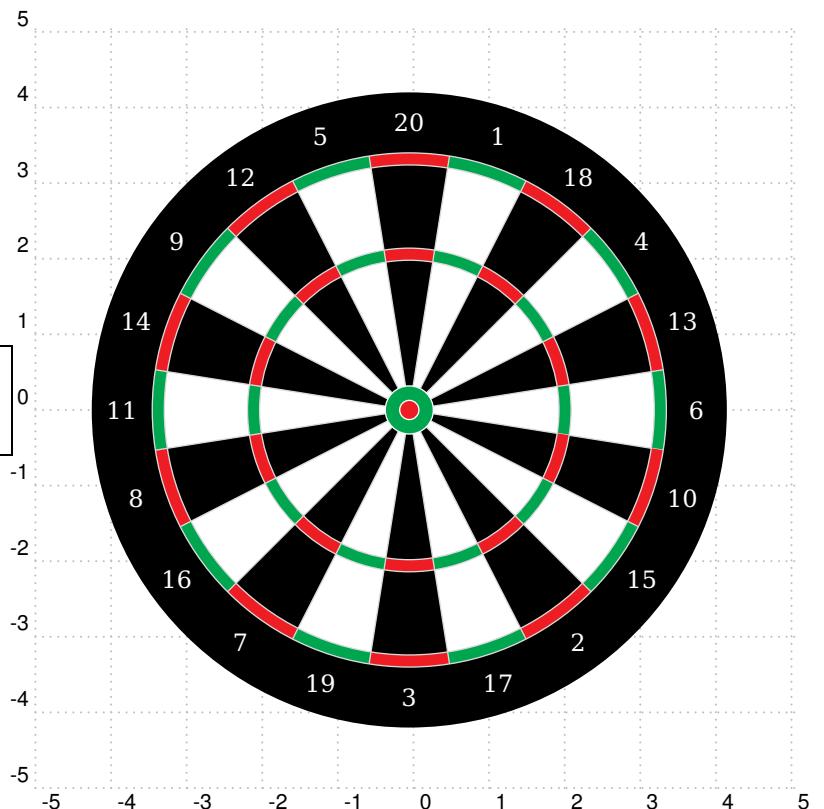
2 Examples

2.1 The default size



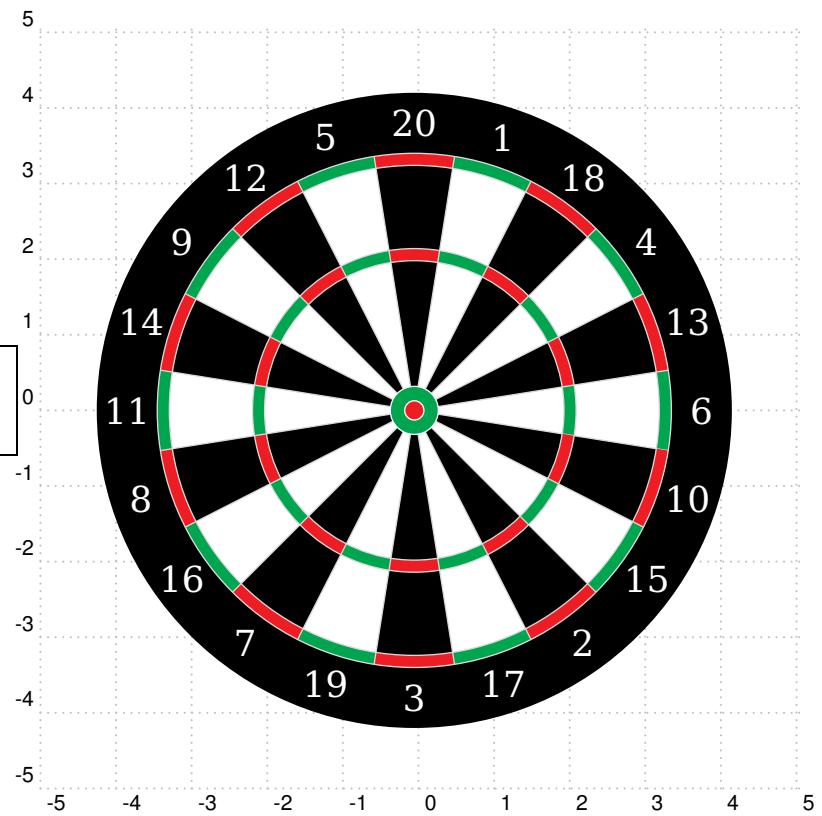
```
\begin{pspicture}[showgrid](-3,-3)(9,3)
\psDartBoard % The default Dartboard (radius=2.1cm)
\psDartBoard[fontsize=7pt](6cm,0)
\end{pspicture}
```

2.2 Scaling



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

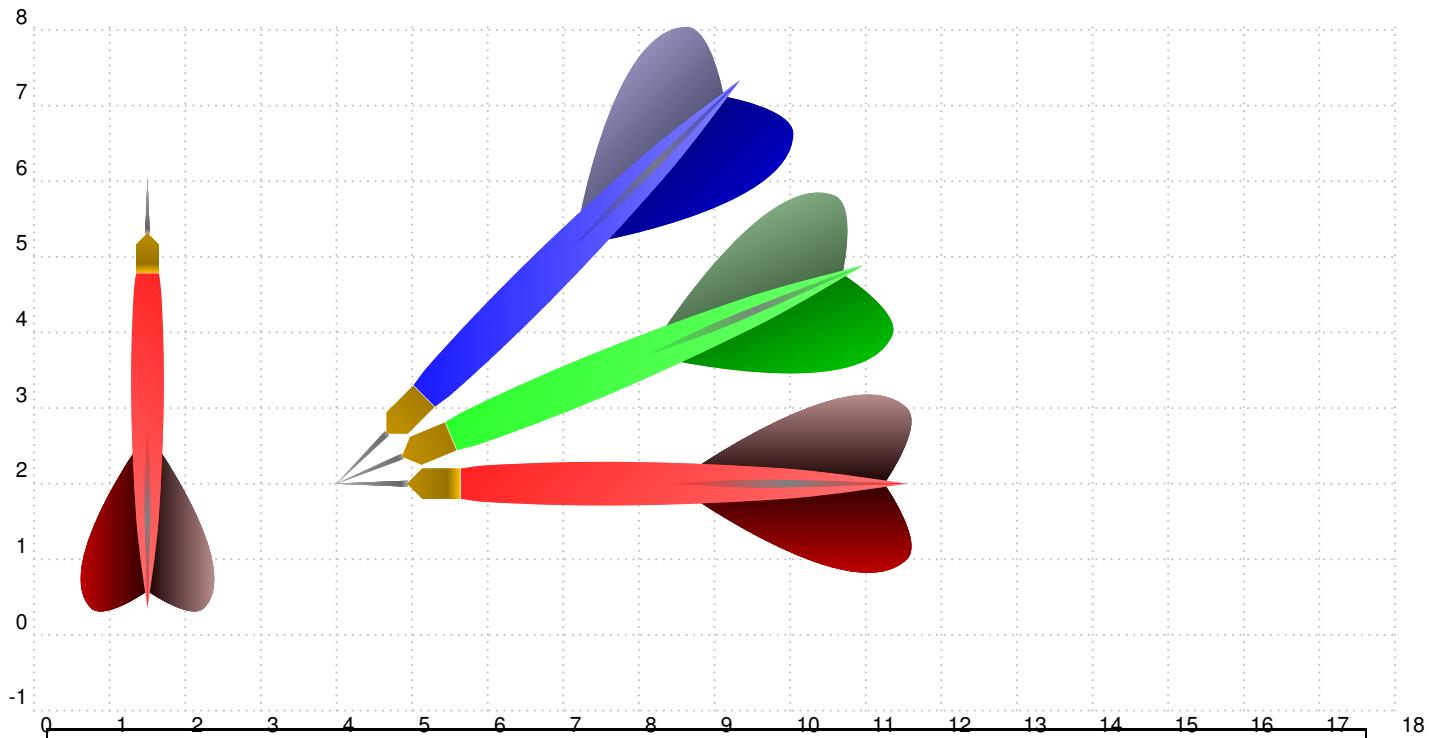
```
\begin{pspicture}[showgrid](-5,-5)(5,5)
\psDartBoard[fontsize=15pt,unit=2]
\end{pspicture}
```



2.3 Space

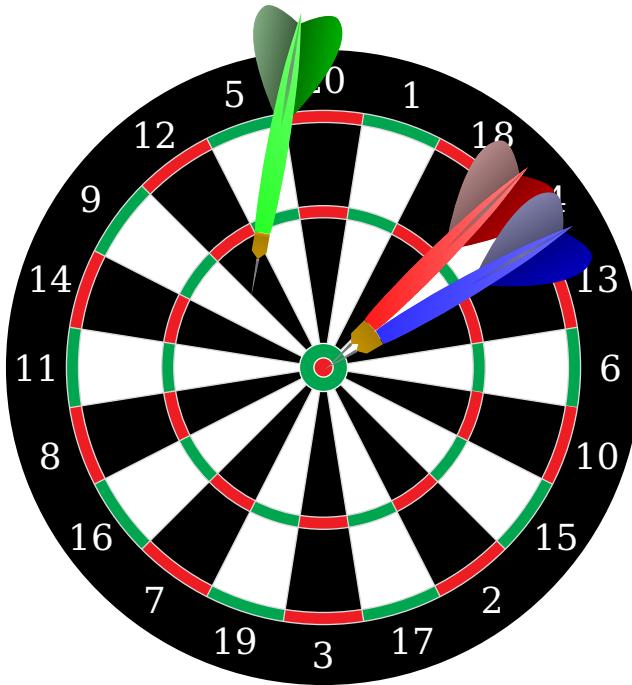
`\psDartBoard` itself uses internally already an environment `pspicture` which reserves the space. But an internal `\rput` command places the dartboard without specifying coordinates at the origin which is the reason why one has to reserve space with an additional environment `pspicture` as can be seen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

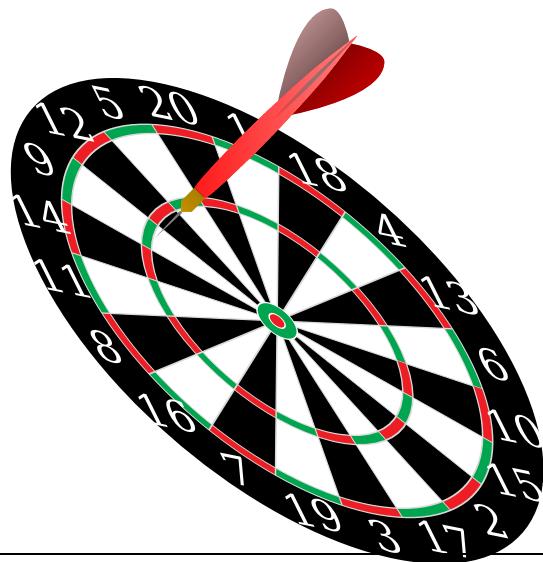


```
\begin{pspicture}(-5,-5)(5,5)
\psDartBoard[fontsize=15pt,unit=2]
\psDart[rot=45,unit=0.5](0,0)
\psDart[rot=30,unit=0.5,dartcolor=blue](0,0)
\psDart[rot=80,unit=0.5,dartcolor=green](-2,2)
\end{pspicture}
```

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 X_LA_TE_X, you have to choose the Sequenz $\text{latex} \rightarrow \text{dvips} \rightarrow \text{ps2pdf}$.

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
<code>preCode</code>	ordinary	
<code>postCode</code>	ordinary	
<code>fontsize</code>	ordinary	10pt
<code>dartcolor</code>	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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