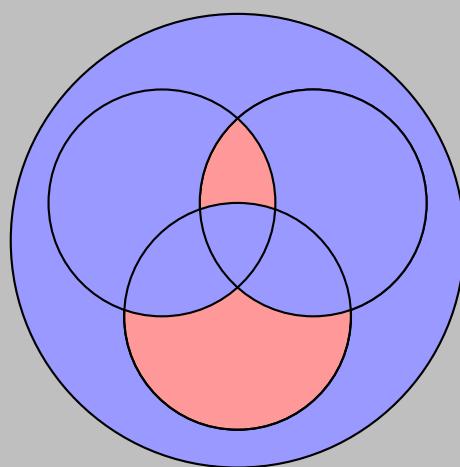


PSTricks

pst-venn

A PSTricks package for drawing Venn sets; v 0.01

December 4, 2018

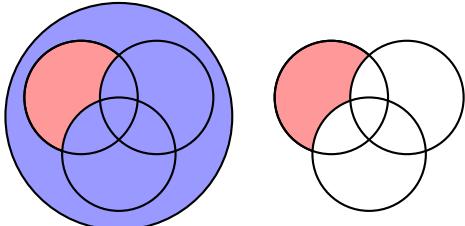


Package author(s):
Herbert Voß

```
\psVenn[options](01)(02)(03){radius}{segments}
```

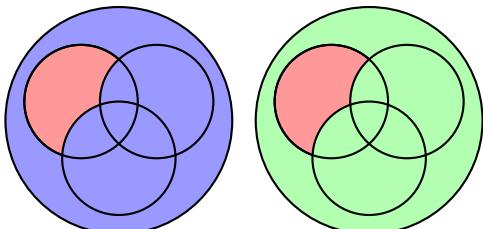
There are the following optional arguments:

`bgcircle=<true/false>:`



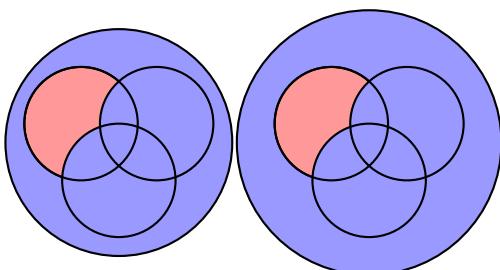
```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[bgcircle](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[bgcircle=false](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
```

`bgcolor=<color>:`



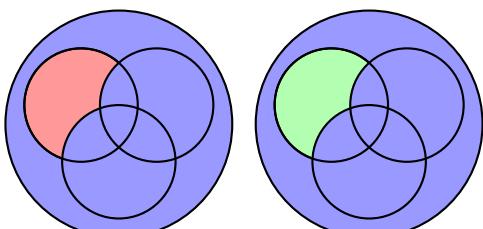
```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[bgcolor=green!30](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
```

`bgradius=<value[unit]>:`



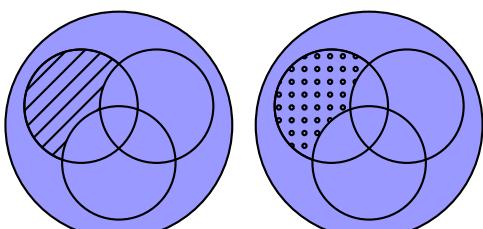
```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[bgradius=3.5](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
```

`fgcolor=<color>:`



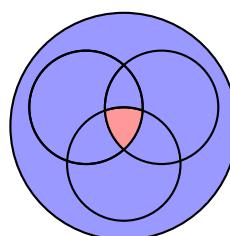
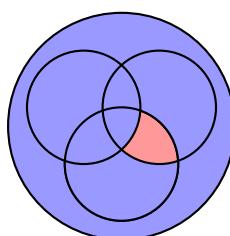
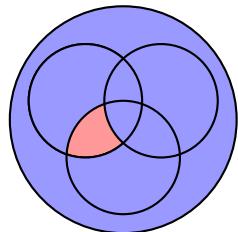
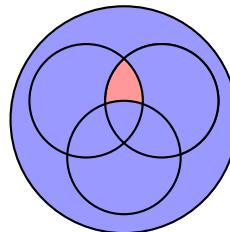
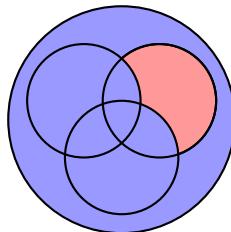
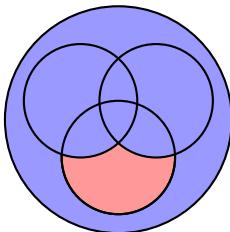
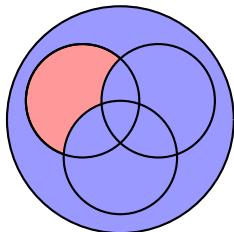
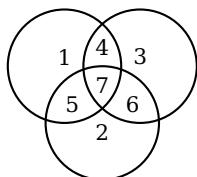
```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[fgcolor=green!30](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
```

`vennfill=<style>:`



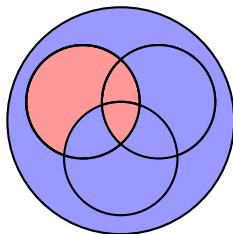
```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[vennfill=hlines](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn[vennfill=dots](-1,0.5)(0,-1)(1,0.5){1.5}{1}
\end{pspicture}
```

Every single area of the three circles has a number:

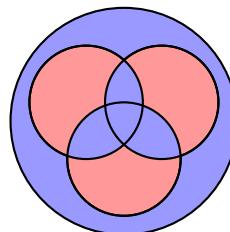
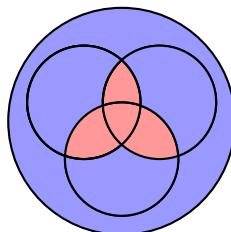
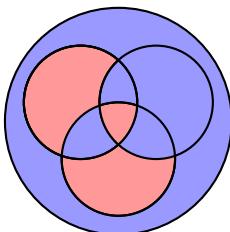


```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{2}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{3}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{4}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{5}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{6}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{7}
```

The elements can be combined like 147:



```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2)
\psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{147}
```



```
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){127}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{4567}
\begin{pspicture}(-3.2,-3.2)(3.2,3.2) \psVenn(-1,0.5)(0,-1)(1,0.5){1.5}{123}
```

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*. second. Boston, Mass.: Addison-Wesley Publishing Company, 2007.
- [3] Herbert Voß. *PSTRicks – Grafik für T_EX und L^AT_EX*. 7th ed. Heidelberg and Hamburg: DANTE – lehmanns media, 2017.
- [4] Herbert Voß. *PSTRicks – Graphics for L^AT_EX*. 1st ed. Cambridge: UIT, 2011.
- [5] Timothy Van Zandt and Denis Girou. "Inside PSTRicks". In: *TUGboat* 15 (Sept. 1994), pp. 239–246.