

TikZ drawing



TikZ drawing

```
\path[fill=yellow,draw=yellow!75!red]
(0,0) circle (1cm);
\fill[red] (45:5mm) circle (1mm);
\fill[red] (135:5mm) circle (1mm);
\draw[line width=1mm,red]
(215:5mm) arc (215:325:5mm);
```



textformat

Typeset text as bold, italic, or both.

See *textcolor*^{on p 4}.

`\textbf{text}`
`\textit{text}`
`\bfseries`
`\mdseries`
`\itshape`
`\upshape`

Text formatting – commands

c.1

`\raggedright` Normal text,
`\textbf{bold text}`,
`\textit{italic text}`,
`\textbf{\textit{bold italic text}}`. Back to normal text.
`\textsc{Small Caps}`

Normal text, bold text, italic text, bold italic text. Back to normal text.

Text formatting – switches

c.2

`\raggedright` Normal text,
`\bfseries` bold text, `\itshape`
bold italic text, `\upshape`
back to upright bold,
`\mdseries` `\itshape` now some
italics, `\upshape` and back to
normal text.

Normal text, bold text, bold italic text, back to upright bold, now some italics, and back to normal text.

The command

`\textit{italic text}` (1)

switches to italics locally:

`\textit[1]{\itshape#1}` (2)

fontfamily

Set text in a particular font family: serif (roman), sans-serif, mono-spaced.

```
\textsf{text}
\texttt{text}
\rmfamily
\sffamily
\ttfamily
```

Font families – commands

c.3

```
\raggedright Serif text (roman)
abfgy 123, \textsf{sans text
abfgy 123},
\texttt{mono-spaced text abfgy
123}, back to normal text.
```

Serif text (roman)
abfgy 123, sans text
abfgy 123,
mono-spaced text
abfgy 123, back to
normal text.

Font families – switches

c.4

```
\raggedright Serif text (roman)
abfgy 123, \sffamily sans text
abfgy 123, \ttfamily
mono-spaced text abfgy 123,
\rmfamily back to normal text.
```

Serif text (roman)
abfgy 123, sans text
abfgy 123,
mono-spaced text
abfgy 123, back
to normal text.

Boxes – mbox

c.5

```
Some text \mbox{a a a a a a} b b b b b
b b b b b b b b
```

Some text
a a a a a a b
b b b b b b b b
b b b

Boxes – fbox

c.6

```
\raggedright Some \fbox{text} in a frame.
```

Some text in a
frame.

colorbox

Put text on a coloured background.

See *fcolorbox*^{on p 4}.

`\colorbox`{text-background-colour}{text}

Boxes – colorbox

c.7

```
\raggedright Some coloured  
  \colorbox{yellow!50}{  
    \textcolor{red}{text} }.
```

Some coloured
text .

See code example **c.8**^{on p 4} for the framed version.

fcolorbox

Draw a coloured frame around text on a coloured background.

See *colorbox*^{on p 4}.

`\fcolorbox`{frame-colour}{text-background-colour}{text}

Boxes – fcolorbox

c.8

```
\raggedright Some framed \&  
  coloured  
  \fcolorbox{blue}{yellow!50}{text}.
```

Some framed &
coloured **text** .

textcolor

Typeset coloured text.

See *textformat*^{on p 2}.

`\textcolor`{text-colour}{text}

Text – textcolor

c.9

```
\raggedright Some coloured  
  \textcolor{red}{red text} and  
  some \textcolor{blue}{blue  
  text}.
```

Some coloured **red**
text and some **blue**
text.

adjusting boxes


Change the rule width, and the separator width between rule and text.

```
\setlength{\fboxrule}{length}  
\setlength{\fboxsep}{length}
```

Boxes – fboxrule

c.10


```
\setlength{\fboxrule}{3pt}  
\raggedright Some framed \&  
coloured  
    \fcolorbox{blue}{yellow!50}{%  
    \textcolor{red}{text}}.
```

Some framed &
coloured .

Boxes – fboxsep

c.11

```
\setlength{\fboxrule}{3pt}  
\setlength{\fboxsep}{0pt}  
\raggedright Some framed \&  
coloured  
    \fcolorbox{blue}{yellow!50}{%  
    \textcolor{red}{text}}.
```

Some framed &
coloured .

Lists – enumerate

c.12

```
\begin{enumerate} \item xxx \item xxx  
    \begin{enumerate} \item yyy \item yyy  
    \begin{enumerate} \item zzz \item zzz  
    \item zzz\end{enumerate} \item  
yyy\end{enumerate} \item  
xxx\end{enumerate}
```

1. xxx
2. xxx
 - (a) yyy
 - (b) yyy
 - i. zzz
 - ii. zzz
 - iii. zzz
 - (c) yyy
3. xxx

Lists – itemize	c.13
<pre> \begin{itemize} \item xxx \item xxx \begin{itemize} \item yyy \item yyy \begin{itemize} \item zzz \item zzz \item zzz\end{itemize} \item yyy\end{itemize} \item xxx\end{itemize} </pre>	<ul style="list-style-type: none"> • XXX • XXX – yyy – yyy * ZZZ * ZZZ * ZZZ – yyy • XXX
Lists – description	c.14
<pre> \begin{description} \item[doe] `a deer, a female deer' \begin{description} \item[buck] the male \item[fawn] a young deer \end{description} \item[ray] `a beam of golden sun' \end{description} </pre>	<p>doe ‘a deer, a female deer’</p> <p>buck the male</p> <p>fawn a young deer</p> <p>ray ‘a beam of golden sun’</p>
Section levels – section	c.15
<pre> \section{X} xxx \section*{Y} yyy \section{Z} zzz </pre>	<p>1 X</p> <p>xxx</p> <p>Y</p> <p>yyy</p> <p>2 Z</p> <p>zzz</p>

3 xxx

Environments – abstract		c.16
<pre>\begin{abstract} ... x x x x x x \end{abstract}</pre>	Abstract	<pre>... XX X X X X</pre>

Codeline (2)^{on p 2} is an example of locally-grouped formatting.