OU Tikz styles

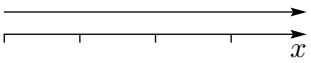
As defined in `outikz.sty`

Lines

		Dashed versions	
Default (1pt) `\draw`		`\draw[dashed]`	
Thick (1.6pt) `\draw[thick]`		`\draw[thick,dashed]`	
Construction lines (0.25pt) `\draw[thin]`		`\draw[thin,dashed]`	
Grid lines (0.5pt, 20% black) `\draw[grid]`			
Arc (0.25pt) `\draw[arc]`			

Lines with arrows

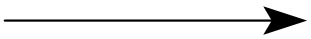
Axis `\draw[axis]`



Axis with ticks (0.5pt by 3pt) and label
`\draw[axis] ... node[xlab]{$x$}`
(Ticks need to be fixed length, independent of scaling:

```
\coordinate (t1) at (x,y);
\draw[ticks, reset cm] (t1)--++(0,-\ticklength))
```

Thick axis `\draw[thickaxis]`
(for screencasts etc only)



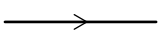
Arc `\draw[arc,-arcarrow]`

Vector `\draw[vector]`

Force `\draw[force]`

Acceleration `\draw[acceleration]`

Mapping `\draw[mapping]`



Network `\draw[network]`

Dimension `\draw[dimension]`

Dimension with markers `\draw[dimensionmark]`

Compass North `\draw[-compassarrow]`

Miscellaneous

Point marker


```
\draw (0,0) node[point, label=right:{$P$}]{};
```

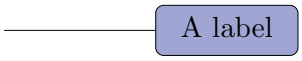
Square point


```
\draw (0,0) node[sqrpoint, label=right:{$Q$}]{};
```

Open/closed points


```
\draw (0,0) node[open]{} -- (1,0) node[closed]{};
```

Tag/label

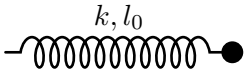



```
\draw[thin] (0,0) -- (1,0) node[tag, fill=M337bluefill, anchor=west]{A label};
```

Cloud

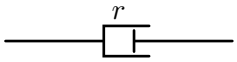

```
\draw (1,0) node[oucloud, fill=M337bluefill](cloudname){A label};
\draw[thin] (cloudname) edge (0,0);
```

Spring




```
\draw[MST210spring] (0,0) -- (2,0) node[pos=0.5,above=4]{$k,l_0$}  node[point]{\phantom{a}};
```

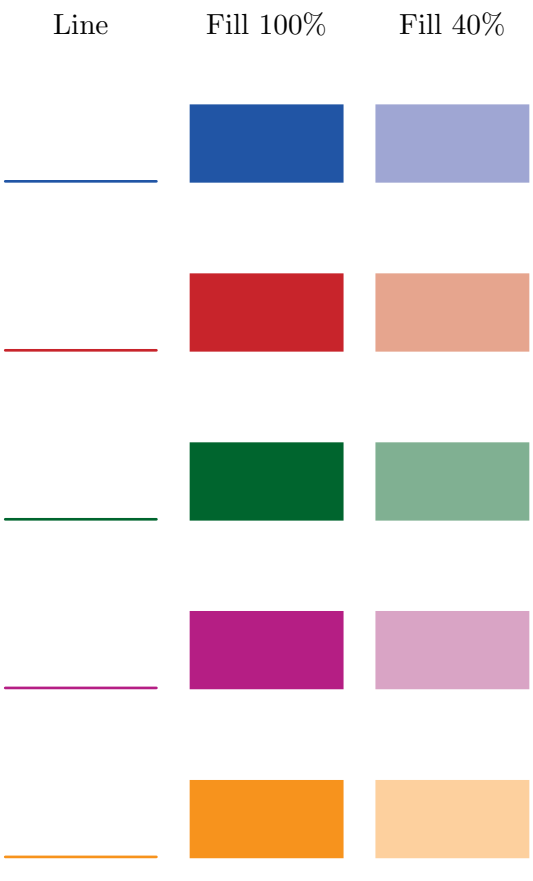
Damper




```
\draw[MST210damper] (0,0) -- (2,0) node[pos=0.5,above=4]{$r$};
```

Colours

M337 line colours (for example)



Blue

```
\draw[M337blue]
\draw[M337blue,fill=M337blue]
\draw[M337bluefill,fill=M337bluefill]
```

Red

```
\draw[M337red]
\draw[M337red,fill=M337red]
\draw[M337redfill,fill=M337redfill]
```

Green

```
\draw[M337green]
\draw[M337green,fill=M337green]
\draw[M337greenfill,fill=M337greenfill]
```

Purple

```
\draw[M337purple]
\draw[M337purple,fill=M337purple]
\draw[M337purplefill,fill=M337purplefill]
```

Orange

```
\draw[M337orange]
\draw[M337orange,fill=M337orange]
\draw[M337orangefill,fill=M337orangefill]
```

Structured content colours

`figurebox`:
(for figure backgrounds)

`greenbox`

`buffbox`

`bluebox`

Figure containing boxes

(Drawn with buff background to improve visability!)
Of course, individuals may have their own preferred way of achieving the same effects.

Single figures

```
\begin{outikzfig}[<colour>]{<width>}     <colour> = one of figurebox/bluebox/buffbox/greenbox
\begin{tikzpicture}                      <width>  = one of figure/margin/solution/fullwidth
...
\end{tikzpicture}
\end{outikzfig}
```

Standard figure width = 360pt

Solution figure width = 240pt

Margin figure width = 144pt

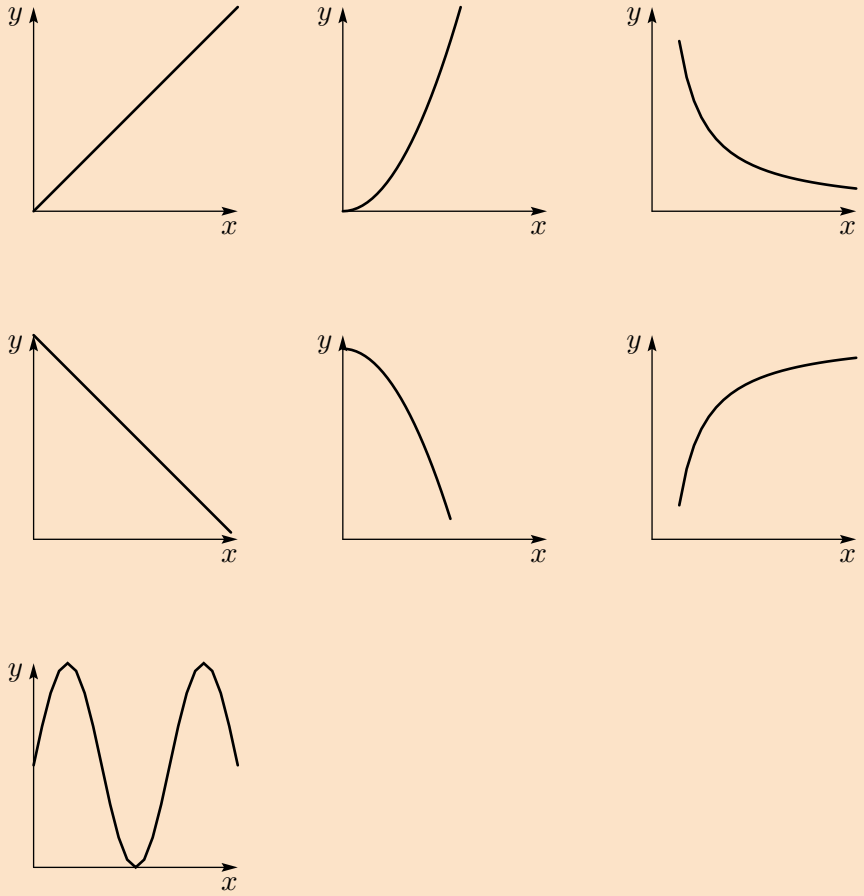
Full width figure = 516pt

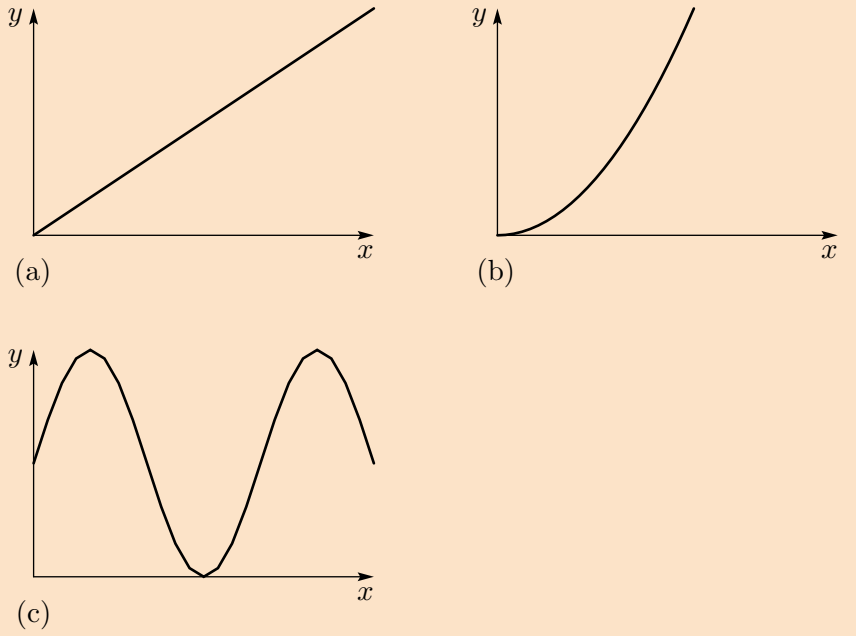
Multiple figures

```
\begin{outikzmultifig}[<colour>]{<width>}{<number>}  % <colour> = as above
                                                     % <width>  = as above
                                                     % <number> = number columns
\ousubfig                              % use \ousubfignum to number the figures
\begin{tikzpicture}
...
\end{tikzpicture}

\ousubfig
\begin{tikzpicture}
...
\end{tikzpicture}

...
\end{outikzmultifig}
```


y
x
y
x
y
x
y
x
y
x
y
x
y
x


y
x
(a)
y
x
(b)
y
x
(c)