










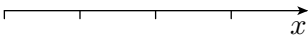
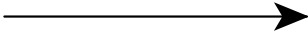









OU Tikz styles

As defined in outikz.sty

Lines

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

Lines with arrows

Axis <code>\draw[axis]</code>	
Axis with ticks (0.5pt by 3pt) and label <code>\draw[axis] ... node[xlab]{\$x\$}</code> Tick need to be fixed length, independent of scaling: <code>\coordinate (t1) at (x,y);</code> <code>\draw[ticks, reset cm] (t1)--++(0,-\ticklength)</code>	
Thick axis <code>\draw[thickaxis]</code> (for screencasts etc only)	
Arc <code>\draw[arc,-arcarrow]</code>	
Vector <code>\draw[vector]</code>	
Force <code>\draw[force]</code>	
Acceleration <code>\draw[acceleration]</code>	
Mapping <code>\draw[mapping]</code>	
Network <code>\draw[network]</code>	
Dimension <code>\draw[dimension]</code>	
Dimension with markers <code>\draw[dimensionmark]</code>	
Compass North <code>\draw[-compassarrow]</code>	

Miscellaneous

Point marker

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

• P

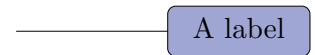
Open/closed points

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



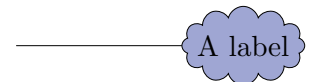
Tag/label

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



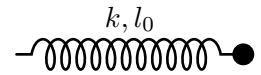
Cloud

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



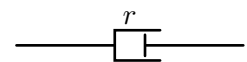
Spring

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


















Damper

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



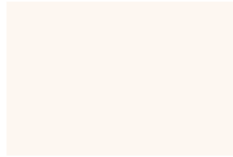
Colours

M337 line colours (for example)

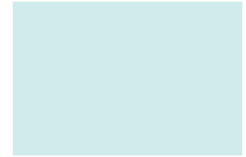
	line	fill 100%	fill 40%
Blue			
<pre>\draw[M337blue]</pre>			
<pre>\draw[M337blue,fill=M337blue]</pre>			
<pre>\draw[M337bluefill,fill=M337bluefill]</pre>			
Red			
<pre>\draw[M337red]</pre>			
<pre>\draw[M337red,fill=M337red]</pre>			
<pre>\draw[M337redfill,fill=M337redfill]</pre>			
Green			
<pre>\draw[M337green]</pre>			
<pre>\draw[M337green,fill=M337green]</pre>			
<pre>\draw[M337greenfill,fill=M337greenfill]</pre>			
Purple			
<pre>\draw[M337purple]</pre>			
<pre>\draw[M337purple,fill=M337purple]</pre>			
<pre>\draw[M337purplefill,fill=M337purplefill]</pre>			
Orange			
<pre>\draw[M337orange]</pre>			
<pre>\draw[M337orange,fill=M337orange]</pre>			
<pre>\draw[M337orangefill,fill=M337orangefill]</pre>			

Structured content colours

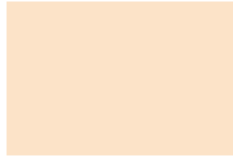
figurebox:
(for figure backgrounds)



greenbox



buffbox



bluebox



Figure containing boxes

(Drawn with buff background to improve visibility!)

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}

```

