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0.1 Définition des nœuds

\draw (1,1) node[fill=red!20] {} ;			
Par défaut :	node[draw]	node[circle]	node[circle ,draw]

\node at (1,1) [fill=red!20] {} ;			
[fill=red!20]	[draw]	[circle ,fill=red!20]	[circle ,draw]

Autres types de nœuds voir page ??

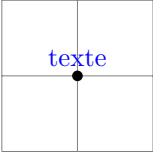
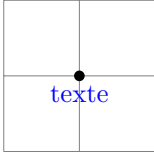
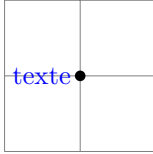
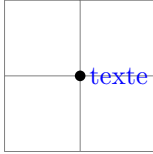
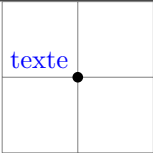
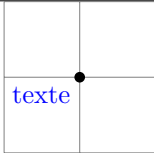
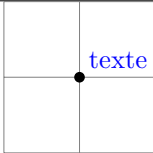
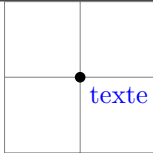
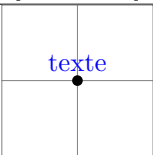
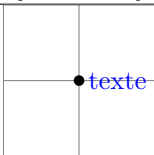
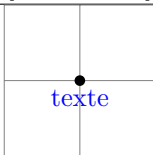
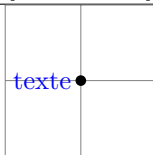
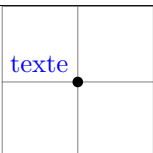
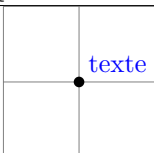
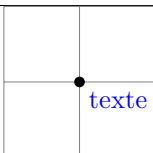
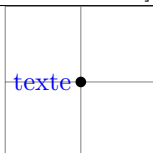
0.2 Liaisons

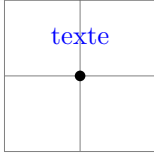
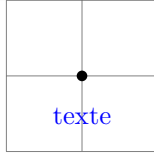
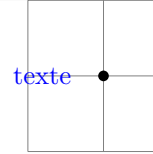
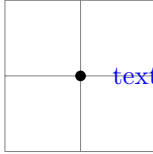
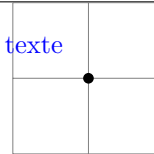
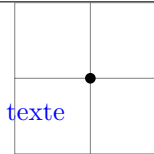
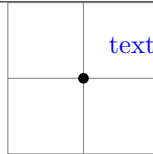
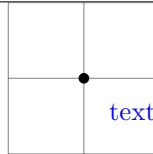
(A) - - (B)	(A) - (B)	(A) - (B)
(A) to [bend right] (B)	(A) to [bend left] (B)	(A) to [bend left=0] (B)
(A) to [bend left=120] (B)	(A) to [bend left=45] (B)	(A) to [bend left=90] (B)
(A) to [out=90] (B)	(A) to [out=30] (B)	(A) to [in=-90] (B)

<code>\draw (A) .. controls +(right :2cm) and +(down :2cm) .. (B);</code>	
<code>controls +(right :2cm) and +(down :2cm)</code>	<code>controls +(up :1cm) and +(left :1cm)</code>
<code>controls +(right :1cm) and +(right :2cm)</code>	<code>controls +(up :1cm) and +(right :2cm)</code>
<code>controls +(120 :2cm) and +(200 :1cm)</code>	<code>controls +(120 :2cm) and +(200 :1cm)</code>
<code>controls +(C) and +(D)</code>	<code>controls +(D)</code>

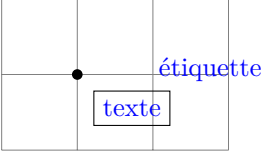
<code>\node[draw] (A) at (0,0) {A}</code> <code>\node[draw] (B) at (2,2) {B} edge [->] (A);</code> <div style="border: 1px solid red; padding: 2px; display: inline-block; color: red;">PGFmanual section : 17-12-1</div>		
<code>[->]</code>	<code>[red]</code>	<code>[dashed]</code>


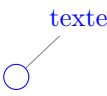

0.3 Étiquettes sur les nœuds

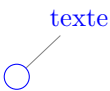

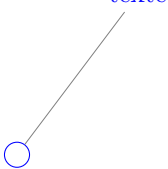
\fill(0,0) circle (2pt) node[above] {texte};			
			
[above]	[below]	[left]	[right]
			
[above left]	[below left]	[above right]	[below right]
			
[anchor=south]	[anchor=west]	[anchor=north]	[anchor=east]
			
[anchor=south east]	[anchor=south west]	[anchor=north west]	[anchor=north east]

\fill(0,0) circle (2pt) node[above=.3cm] {texte};			
			
[above=.3cm]	[below=.3cm]	[left=.3cm]	[right=.3cm]
			
[above left=.3cm]	[below left=.3cm]	[above right=.3cm]	[below right=.3cm]

$\backslash\text{shorthandoff}\{ : \}$ ¹ $\backslash\text{node}[\text{draw},\text{label}=\text{right} : \text{texte}] \{ \}$ $\backslash\text{shorthandon}\{ : \}$				
\square texte	texte \square	texte \square	\square texte	texte \square
label=right	label=left	label=above	label=below	label=45

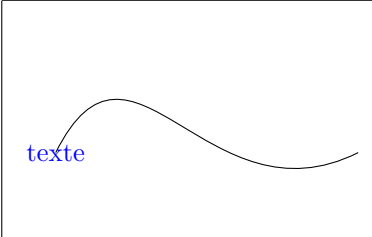
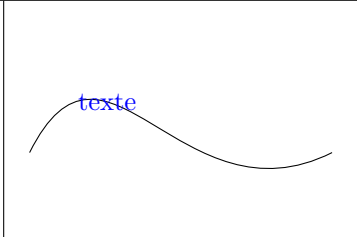
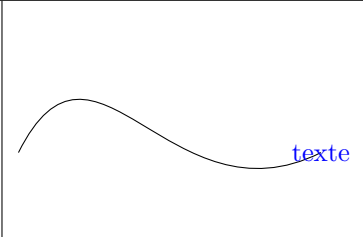
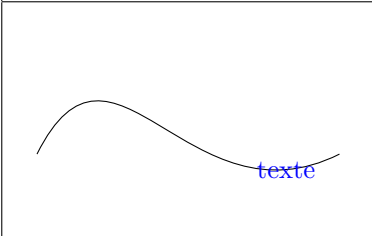
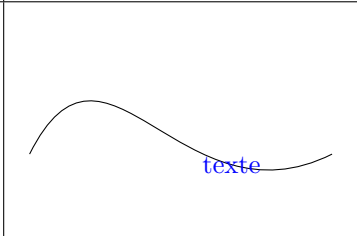
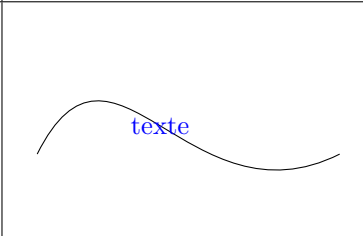
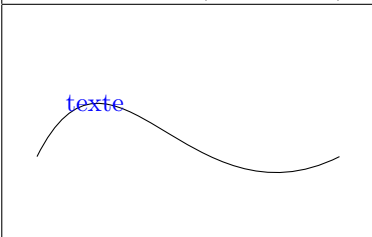
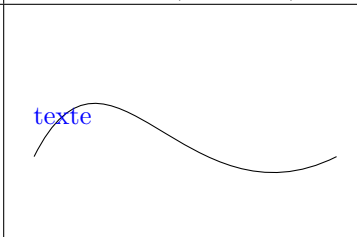
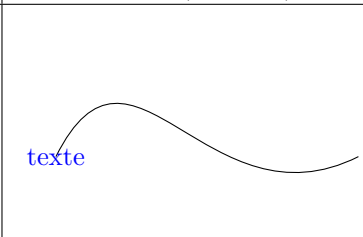
$\backslash\text{fill}(0,0)$ circle (2pt) node[below right=.3cm,draw,label=45 :étiquette] {texte};				
				

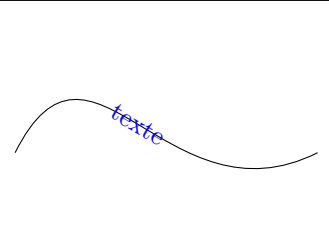
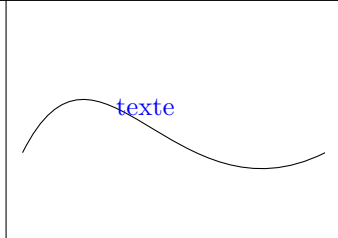
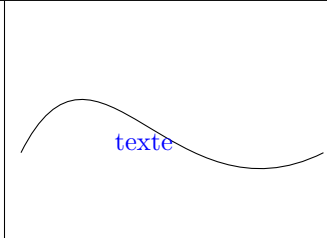
$\backslash\text{shorthandoff}\{ : \}$ $\backslash\text{node}[\text{circle},\text{draw},\text{blue},\text{pin}=\text{texte}] \{ \}$; $\backslash\text{shorthandon}\{ : \}$ ¹		
		
[circle,pin=texte]	[circle,pin=60 :texte]	[circle,pin=right :texte]

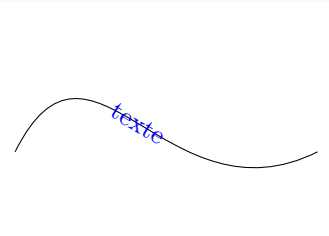
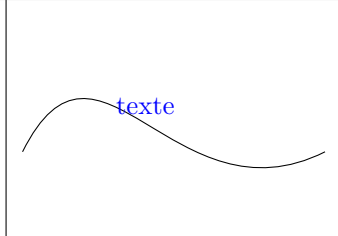
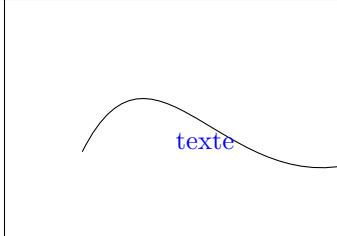
$\backslash\text{tikz}[\text{pin position}=60] \backslash\text{node}[\text{circle},\text{pin}=\text{texte}] \{ \}$;		
		
[pin position=60]	[pin distance=0 cm]	[pin distance=2 cm]
Par défaut : : above	Par défaut : : 3 ex	

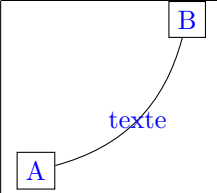
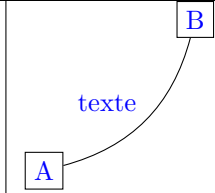
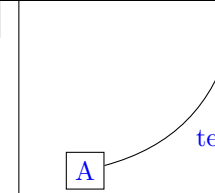
¹désactivation et ré-activation de « : »conflict entre les modules Tikz et Babel en français

0.4 Nœuds sur un chemin

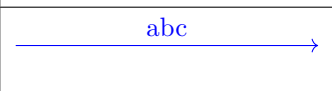
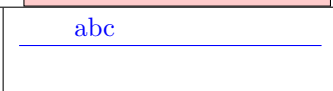
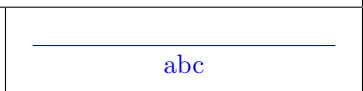
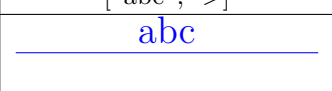
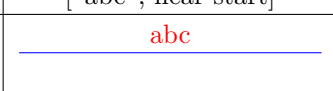
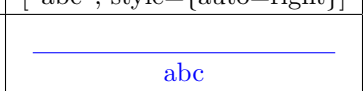
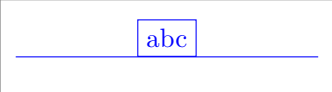
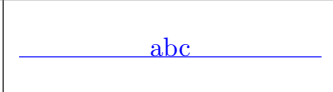
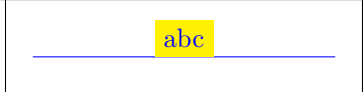
<code>\draw(0,0) .. controls (1,2) and (2,-1) .. (4,0) node[at end] {texte} ;</code>		
		
pos=0	pos=.33	at end (pos=1)
		
very near end (pos=0.875.)	near end (pos=0.75)	midway (pos=0.5)
		
near start (pos=0.25)	very near start (pos=0.125)	at start (pos=0)

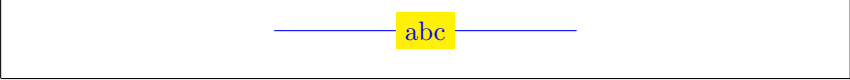
<code>\draw(0,0) .. controls (1,2) and (2,1) .. (4,0) node[sloped,midway] {texte} ;</code>		
		
sloped	above	below

<code>\draw(0,0) .. controls (1,2) and (2,1) .. (5,0) node[sloped,midway,allow upside down] {texte} ;</code>		
		
sloped	above	below


\draw(A to [bend right] node [bend right] {texte} (B);		
		
[bend right]	[auto,bend right]	[auto,swap,bend right]






0.5 Nœuds sur un “edge”

\draw(0,0) edge ["abc", ->] (4,0);		
PGFmanual section : 17-12-2		
		
["abc", ->]	["abc", near start]	["abc", style={auto=right}]
		
[font=\Large,"abc"]	["abc" color=red]	["abc" ']
		
["abc" draw]	["abc" inner sep=0pt]	["abc" fill ,fill=yellow]

\draw[every edge quotes/.style={fill=yellow}] (0,0) edge ["abc"] (4,0);


1 A Voir

module de base TikZ :		
nom	A insérer dans le préambule	documentation ¹
tikz	<code>\usepackage{tikz}</code>	pgfmanual.pdf 

Autres modules		
nom	voir page	documentation ²
animate	??	animate.pdf 
tikz-optics	??	tikz-optics.pdf 
pgfplots	??	pgfplots.pdf 
tikzpeople	??	tikzpeople.pdf 
tkz-tab	??	tkz-tab-screen.pdf 







Compléments optionnels (documentation : pgfmanual.pdf)		
nom	voir page	A insérer dans le préambule
angles	??	<code>\usetikzlibrary{angles}</code>
arrows.meta	??	<code>\usetikzlibrary{arrows.meta}</code>
bending	??	<code>\usetikzlibrary{bending}</code>
backgrounds	??	<code>\usetikzlibrary{backgrounds}</code>
calc	??	<code>\usetikzlibrary{calc}</code>
circuits.ee.IEC	??	<code>\usetikzlibrary{circuits.ee.IEC}</code>
circuits.logic.IEC	??	<code>\usetikzlibrary{circuits.logic.IEC}</code>
circuits.logic.US	??	<code>\usetikzlibrary{circuits.logic.US}</code>
circuits.logic.CDH	??	<code>\usetikzlibrary{circuits.logic.CDH}</code>
fit	??	<code>\usetikzlibrary{fit}</code>
decorations.footprints	??	<code>\usetikzlibrary{decorations.footprints}</code>
decorations.fractals	??	<code>\usetikzlibrary{decorations.fractals}</code>
decorations.markings	??	<code>\usetikzlibrary{decorations.markings}</code>
decorations.pathmorphing	??	<code>\usetikzlibrary{decorations.pathmorphing}</code>
decorations.pathreplacing	??	<code>\usetikzlibrary{decorations.pathreplacing}</code>
decorations.shapes	??	<code>\usetikzlibrary{decorations.shapes}</code>
decorations.text	??	<code>\usetikzlibrary{decorations.text}</code>
fadings	??	<code>\usetikzlibrary{fadings}</code>
intersections	??	<code>\usetikzlibrary{intersections}</code>
patterns	??	<code>\usetikzlibrary{patterns}</code>
plotmarks	??	<code>\usetikzlibrary{plotmarks}</code>
scopes	??	<code>\usetikzlibrary{scopes}</code>
shadings	??	<code>\usetikzlibrary{shadings}</code>
shapes.arrows	??	<code>\usetikzlibrary{shapes.arrows}</code>
shapes.callouts	??	<code>\usetikzlibrary{shapes.callouts}</code>
shapes.geometric	??	<code>\usetikzlibrary{shapes.geometric}</code>
shapes.misc	??	<code>\usetikzlibrary{shapes.misc}</code>
shapes.multipart	??	<code>\usetikzlibrary{shapes.multipart}</code>
shapes.symbols	??	<code>\usetikzlibrary{shapes.symbols}</code>
trees	??	<code>\usetikzlibrary{trees}</code>

¹voir dans le répertoire : `\texlive\2016\tesmf-dist\doc\generic\pgf`

²chercher dans le répertoire : `\texlive\2016\tesmf-dist\doc\latex`

dans une prochaine mise à jour	
automata	PGFmanual section : 41
babel	PGFmanual section : 42
calendar	PGFmanual section : 45
chains	PGFmanual section : 46
circular graph drawing library	PGFmanual section : 32
curvilinear library	PGFmanual section : 103-4-7
datavisualization library	PGFmanual section : 75
datavisualization.formats.functions library	PGFmanual section : 76-4
datavisualization.polar library	PGFmanual section : 80
er	PGFmanual section : 49
examples graph drawing library	PGFmanual section : 35-8
external	PGFmanual section : 50
fixedpointarithmetic	PGFmanual section : 53
folding	PGFmanual section : 59
force graph drawing library	PGFmanual section : 31
fpu	PGFmanual section : 54
graph.standard library	PGFmanual section : 19-10
graphdrawing library	PGFmanual section : 27
graphs library	PGFmanual section : 19
layered graph drawing library	PGFmanual section : 30
lindenmayersystems	PGFmanual section : 55
matrix	PGFmanual section : 57
mindmap	PGFmanual section : 58
petri	PGFmanual section : 61
phylogenetics graph drawing library	PGFmanual section : 33
plotters	PGFmanual section : 62
positioning	PGFmanual section : 17-5-3
profiler	PGFmanual section : 64
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