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김대희

2015년 7월

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2015년 7월

기본 그리기 명령 : draw

Draw \draw (_ , _) -- (_ , _) ;

```
\text{draw} ( \_, \_) -- ( \_, \_) ;
\text{draw} [\text{verythin}, \text{red}] ( \_, \_) -- ( \_, \_) ;
```

선 굵기

- 1 very thin
- 2 very thick
- 3 ultra thin
- 4 ultra thick
- 5 thin
- 6 thick
- 7 semithick

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└─기본 그리기 명령 : draw

기본 그리기 명령 : path

```
Path \begin{array}{c} \text{Path} \\ \text{path (a,b)} \\ \text{path (}\alpha\text{ : rim )} \\ \alpha\text{ : angle} \\ \text{rim : radius} \end{array}
```

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└─기본 그리기 명령 : path

기본 그러기 명령 : path

| path (a, b) |
| \path (a i rim) |
| rim : radius

기본 그리기 명령 : path [line]

Path [line]

Example

```
\label{eq:line} $$ \left\{ \lim_{t \to \infty} - \text{latex} \right\} $$ \left\{ \lim_{t \to \infty} (0,0) - (1,0); \right\} $$ \left\{ \text{tikzpicture} \right\} $$
```

Example

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└─기본 그리기 명령 : path [line]

기본 그리기 명령 : path [line]

Example \tikzstyle{line} = [draw , -late \begin{tikzpicture}

Example

기본 그리기 명령

```
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지본그리기 명령

Example

| begin (thepiture)
| Status the points of a regular pentagon | (path ((0)) coordinate ((P)); | (path ((P''')) : long) coordinate ((P')); | (path ((P''')) : long) coordinate ((P)); | (path ((P'')) : long) coordinate ((P)); | (path ((P)) : long) coordinate
```

기본 그리기 명령



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└─기본 그리기 명령

기본 그리기 명명 Example

기본 그리기 명령 : node

node

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61- 	sade	

기본 그리기 명령 : node[block]

```
| \tikzstyle \{block\} = [\text{ rectangle, draw, text width=6em, text height=1em}] \\ \tikzstyle \{line\} = [\text{ draw , -latex}] \\ \text{begin} \{tikzpicture\} [\text{node distance} = 8em and 2em, auto] \\ \text{node [block] (b0) 0000} \\ \text{node [block, left of=b0] (b1) 1111} \\ \text{node [block, right of=b0] (b2) 1111} \\ \text{node [block, below of=b0] (b3) 1111} \\ \text{node [block, below of=b3] (b4) 1111} \\ \text{path [line] (b0) -- (b1)} \\ \text{path [line] (b0) -- (b2)} \\ \text{path [line] (b0) -- (b3)} \\ \text{path [line] (b3) -- (b4)} \\ \text{end} \{ \text{tikzpicture} \} \end{\text{tikzpicture}}
```

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└─기본 그리기 명령 : node[block]

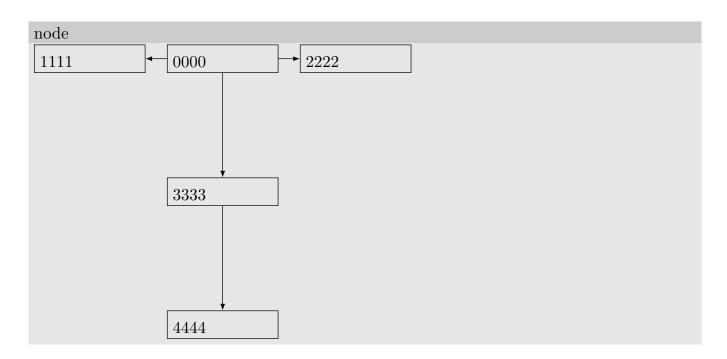
기본 그리기 명령 : node[block]

mode

\tikaxyle (block) = [rectangle, draw, text width—6cm, text height—1cm]
\tikaxyle(lime) = [draw ...dated]
\tikaxyle(lime) = [draw ...date

- 1. block스타일 정의에서 넓이
- 2. block스타일 정의에서 높이
- 3. line의 -retex의 의미
- 4. block의 배치
 - left
 - right
 - below
 - above
- 5. distance의 8 과 2의 의미

기본 그리기 명령





기본 그리기 명령 : node[block]

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음 		

node distance

node distance

 $\label{eq:begin} $$\left(tikzpicture \right) [node\ distance = 8em\ and\ 2em,\ auto] $$$

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node distance

| Some distance | Income | Incom

positing 라이버러리 사용

```
node distance

\node [block, below of=b0 ] (b3) { 3333 };

\node [block, below=2em of b0 ] (b3) { 3333 };
```

```
xshift, yshift xshift = -2em yshift = -2em
```



Placing Nodes

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Placing Nodes

Placing Nodes

```
Placing Nodes Using at syntax
\[ \node at ( - , - ) \]

Placing Nodes Using Relative Placement
\[ \node [below of=--] (b3) \{ 3333 \};
\[ \node [above of=--] (b3) \{ 3333 \};
\[ \node [left of=--] (b3) \{ 3333 \};
\[ \node [right of=--] (b3) \{ 3333 \};
\[ \node [right of=--] (b3) \{ 3333 \};
\]

Placing Nodes Using Anchors
\[ \node [anchor=north west] (b3) \{ 3333 \};
\[ \node [anchor=north east] (b3) \{ 3333 \};
\[ \node [anchor=west] (b3) \{ 3333 \};
\[ \node [anchor=west] (b3) \{ 3333 \};
\[ \node [anchor=east] (b3) \{ 3333 \};
\[ \node [base] (b3) \{ 3333 \};
\[ \node [base] (b3) \{ 3333 \};
\]
```

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Placing Nodes

Placing Nodes

Placing Nodes Using at syntax

\node at (-, -)

Placing Nodes Using Relative Placement

\node Relow of -- \((1.0) \) (3333 \};

\node \(\text{lore to d} -- \((1.0) \) (3333 \};

\node \(\text{lore to d} -- \((1.0) \) (3333 \};

\node \(\text{lore to d} -- \((1.0) \) (3333 \};

\node \(\text{lore to d} -- \((1.0) \) (3333 \};

\node \(\text{lore to d} -- \((1.0) \) (3333 \};

\node \(\text{lore to d} \) \node \(\text{lore to d} \) (3333 \};

\node \(\text{lore to do to do

Tikz Style

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Tikz Style

영역 색깔로 채우기

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영역 색깔로 채우기

Tikz Style

```
Tikz Style

\tikzstyle \{block\} = [rectangle, draw, text width=6em, text height=1em]
\tikzstyle \{line\} = [draw, -latex]

width, height

text width = 6em
text height = 6em
minimum width = 6em
minimum height = 6em

shape

rectangle
trapezium
diamond
```



Tikz Style

Tikz Style round corners text centered draw=black fill=red!30

Tikz Style

Tikz Style

Tikz Style

Tikz Style

Tikz Style

Tikz Style : trapezium

trapezium

trapezium left angle=70 trapezium right angle=110

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 \sqsubseteq Tikz Style : trapezium

Γikz Style : trapezium

trapezium left angle=70

1.

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Text

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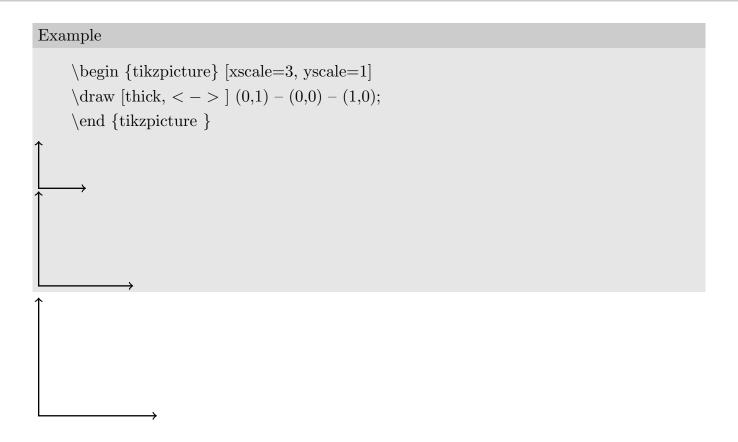
Text

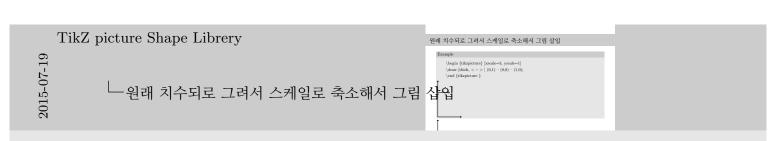
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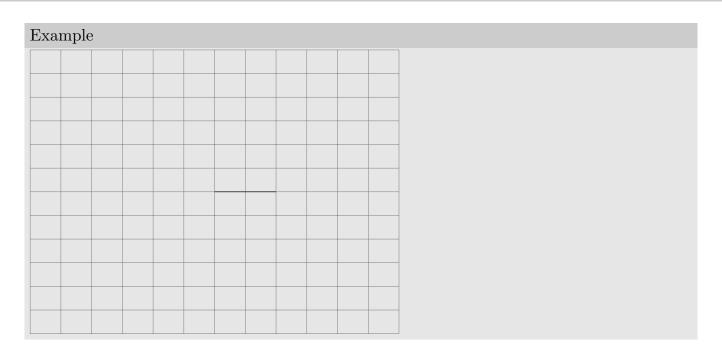
Text 배치

TikZ picture Shape Librery	Text 배치	
61 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1		

원래 치수되로 그려서 스케일로 축소해서 그림 삽입

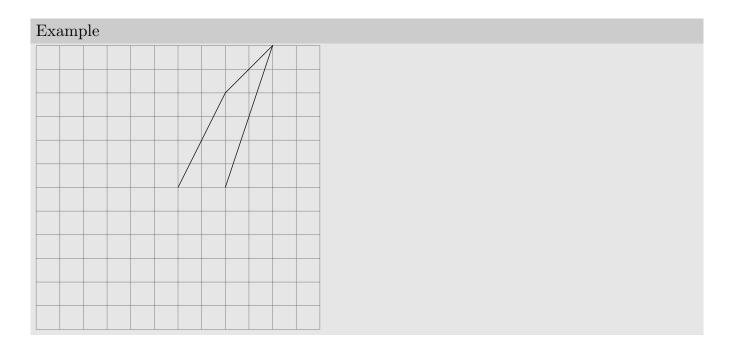


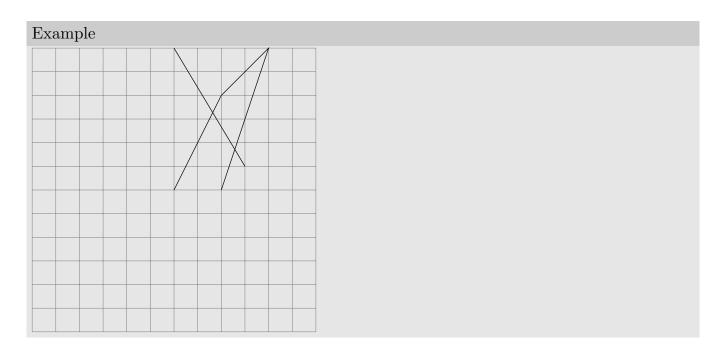




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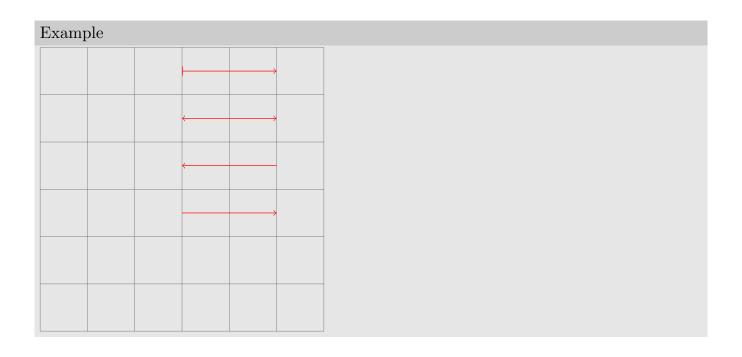
예제 001





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예제 001





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예제 : 선의 두께

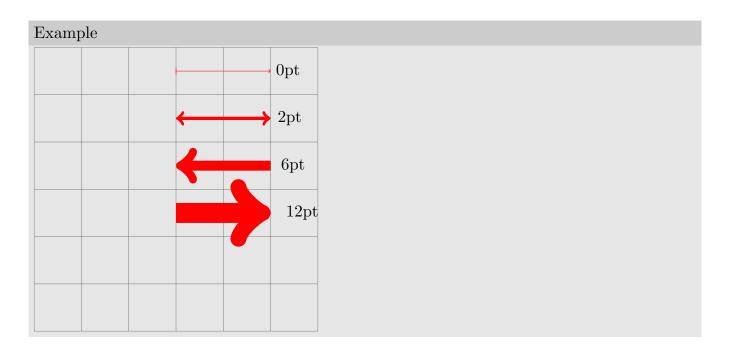


예제 : 선의 두께

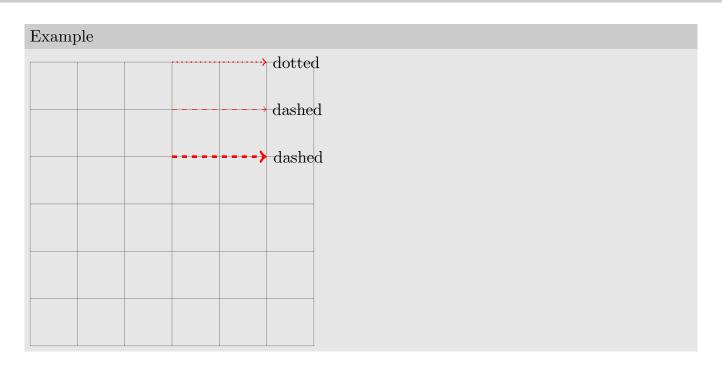
선의 두께 종류 ultra thin very thin thin semithick thick very thick ultra thick

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예제 : 선의 두께 : 사용자 정의

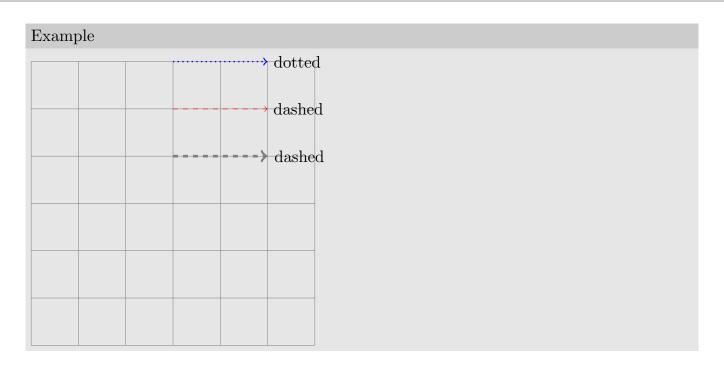


예제 : 선의 종류 : 데쉬와 도트

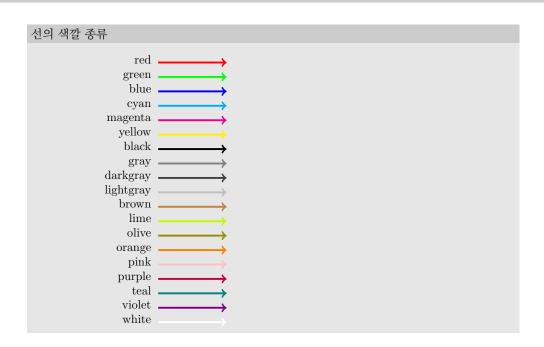


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예제 : 선의 색깔



예제 : 선의 색깔

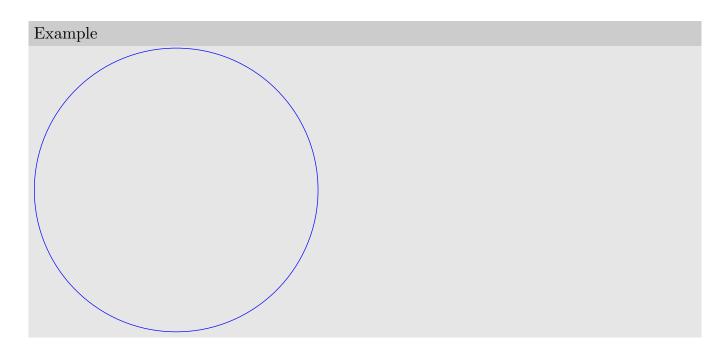


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예제 : 사각형 그리기 예제



예제 : 원 그리기 예제



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예제 : 호 그리기 예제

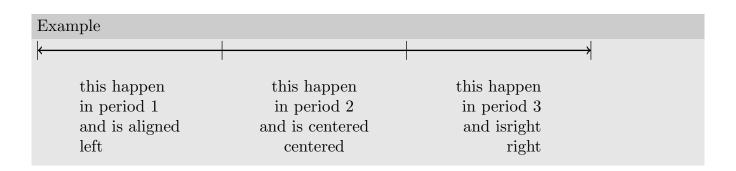


예제 : rounded corners



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예제 001



Example

above below

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예제 003

Example

