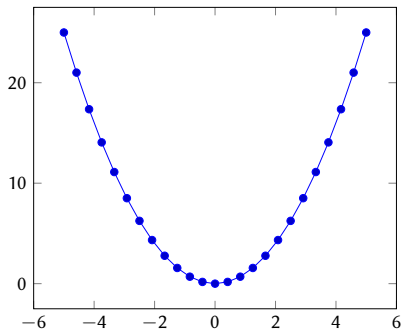


Simple pgfplots examples

2014-09-20 22:34

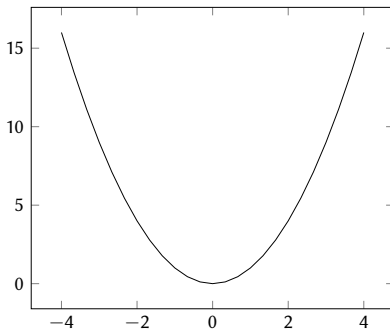
Only one graph

```
\begin{tikzpicture}[scale=0.7]
  \begin{axis}
    \addplot {x^2};
  \end{axis}
\end{tikzpicture}
```



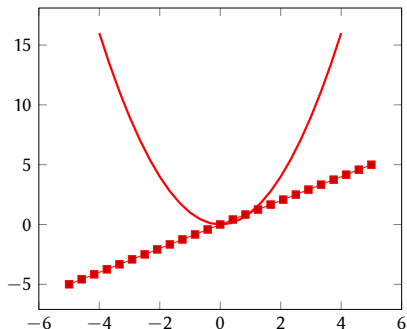
Setting the domain

```
\begin{tikzpicture}[scale=0.7]  
  \begin{axis}  
    \addplot[domain=-4:4] {x^2};  
  \end{axis}  
\end{tikzpicture}
```



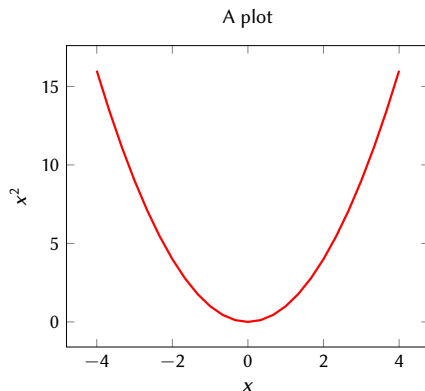
Two graphs, one with attributes

```
\begin{tikzpicture}[scale=0.7]
  \begin{axis}
    \addplot[domain=-4:4,red,very thick] {x^2};
    \addplot {x};
  \end{axis}
\end{tikzpicture}
```



Labels to the plot

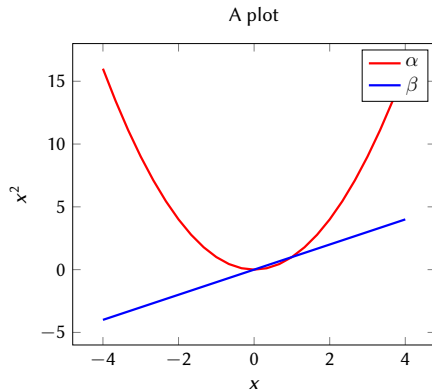
```
\begin{tikzpicture}[scale=0.7]
  \begin{axis}[title=A plot,xlabel={\(\x\)},ylabel={\(\x^2\)})]
    \addplot[domain=-4:4,red,very thick] {x^2};
  \end{axis}
\end{tikzpicture}
```



```

\begin{tikzpicture}[scale=0.7]
  \begin{axis}[title=A plot,xlabel={\(\x\)},ylabel={\(\x^2\)},
    legend entries={\(\alpha\),\(\beta\)})]
    \addplot[domain=-4:4,red,very thick] {x^2};
    \addplot[domain=-4:4,blue,very thick] {x};
  \end{axis}
\end{tikzpicture}

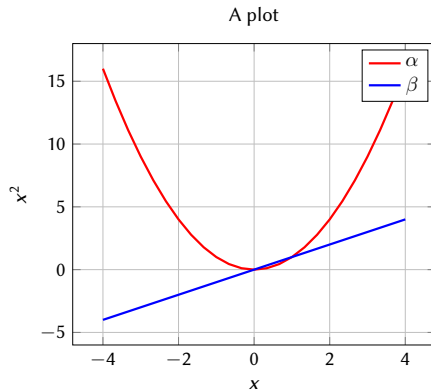
```



```

\begin{tikzpicture}[scale=0.7]
  \begin{axis}[title=A plot,xlabel={\(\x\)},ylabel={\(\x^2\)},
    legend entries={\(\alpha\),\(\beta\)},grid=major]
    \addplot[domain=-4:4,red,very thick] {x^2};
    \addplot[domain=-4:4,blue,very thick] {x};
  \end{axis}
\end{tikzpicture}

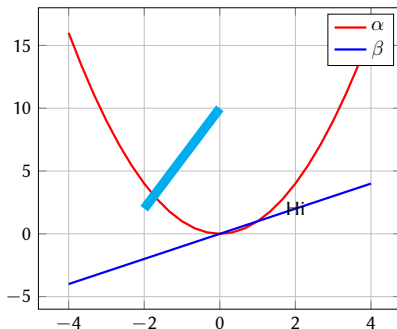
```



```

\begin{tikzpicture}[scale=0.7]
  \begin{axis}[legend entries={\(\alpha\),\(\beta\)},grid=major]
    \addplot[domain=-4:4,red,very thick] {x^2};
    \addplot[domain=-4:4,blue,very thick] {x};
    \node at (2,2) {Hi};
    \draw[cyan,line width=5pt] (-2,2) -- (0,10);
  \end{axis}
\end{tikzpicture}

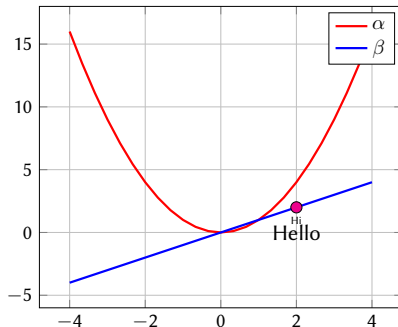
```




```

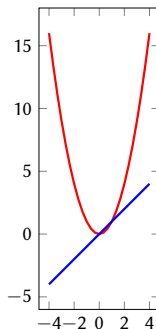
\begin{tikzpicture}[scale=0.7]
  \begin{axis}[legend entries={\(\alpha\),\(\beta\)},grid=major]
    \addplot[domain=-4:4,red,very thick] {x^2};
    \addplot[domain=-4:4,blue,very thick] {x};
    \draw[fill=magenta] (2,2) circle (3pt);
    \node at (2,1) {\tiny Hi};
    \node at (2,0) {\large Hello};
  \end{axis}
\end{tikzpicture}

```



Same scale on both axis, with axis equal image.

```
\begin{tikzpicture}[scale=0.7]
  \begin{axis}[axis equal image]
    \addplot[domain=-4:4,red,very thick] {x^2};
    \addplot[domain=-4:4,blue,very thick] {x};
  \end{axis}
\end{tikzpicture}
```



Nice axis, with axis lines=middle.

```
\begin{tikzpicture}[scale=0.7]
  \begin{axis}[axis lines=middle]
    \addplot[domain=-4:4,red,very thick] {x^2-2};
    \addplot[domain=-4:4,blue,very thick] {x};
  \end{axis}
\end{tikzpicture}
```

