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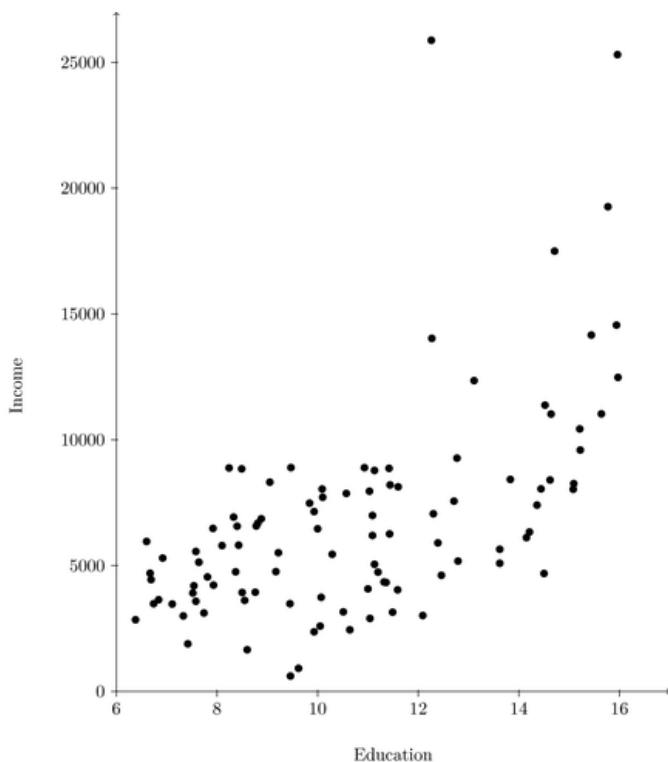- Weblog

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Example: Scatterplot

Published 2007-08-02 | Author: Ista Zahn
A scatterplot of the relationship between education and income. The plotted data is from the car R package by John Fox. Note that the data is released under the GPL 2 licence.

Author: Ista Zahn

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Do you have a question regarding this example, TikZ or LaTeX in general? Just ask in the **LaTeX Forum**.
Oder frag auf Deutsch auf TeXwelt.de.

```
% Author:  Ista Zahn
\documentclass{article}
\usepackage{tikz}
\begin{document}

\begin{tikzpicture}[only marks, y=.5cm]
    \draw plot[mark=*,xshift=-6cm] file {data/ScatterPlotExampleData.data};
    \draw[->,xshift=-6cm] (6,0) -- coordinate (x axis mid) (17,0);
    \draw[->,xshift=-6cm] (6,0) -- coordinate (y axis mid)(6,27);
```

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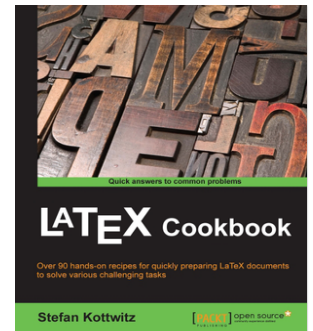Subscribe to the Ti*k*Z examples RSS feed

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```
    \foreach \x in {6,8,10,12,14,16}
        \draw [xshift=-6cm](\x cm,1pt) -- (\x cm,-3pt)
            node[anchor=north] {$\x$};
    \foreach \y/\ytext in {0/0,2.5/5000,5/10000,7.5/15000,10/20000,12.5/25000}
        \draw (1pt,\y cm) -- (-3pt,\y cm) node[anchor=east] {$\ytext$};
    \node[below=1cm] at (x axis mid) {Education};
    \node[left=2cm,rotate=90] at (y axis mid) {Income};
\end{tikzpicture}

\end{document}
```

Comments

- **#1** Claudio, May 7, 2010 at 4:50 p.m.
  The label on the y axis is not centered on the axis. The code in question is

  ```
  \node[left=2cm,rotate=90] at (y axis mid) {Income};
  ```

  [left=2cm] moves the reference point 2cm left from (y axis mid) and sets [anchor=east] which then by 90° rotation is positionned north.

  To fix it (even if not very intuitive):

  ```
  \node[rotate=90, above=2cm] at (y axis mid) {Income};
  ```

  The node is first rotated, then in the rotated environment moved 2cm "up" (left) and anchor is set to "south" (east).

  Best Claudio

- **#2** RolPasto, May 24, 2012 at 6:30 p.m.
  I think it would make sense to change the following line:

  \draw[->,xshift=-6cm] (6,0) -- coordinate (y axis mid)(6,27);

  for this one:

  \draw[->] (0,0) -- coordinate (y axis mid)(0,14);

  and remove the option of the tikzpicture "y=0.5cm"

  Bye

- **#3** MJ, June 9, 2013 at 11:48 p.m.
  How can i add a trend line in such a scatterplot?

Adding comments is currently not enabled.

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