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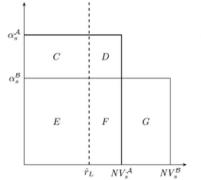
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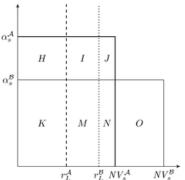
Example: Asymmetric information

Published 2009-02-14 | Author: Rasmus Pank Roulund

An illustration inspired by a figure in Bebczuk, Ricardo N. (2003). <u>Asymmetric Information in Financial Markets: Introduction and Applications. Cambridge University Press</u>.

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

```
% Author: Rasmus Pank Roulund
% Inspired by figure in:
% Bebczuk, Ricardo N. (2003). Asymmetric Information in Financial
% Markets: Introduction and Applications. Cambridge University Press.
\documentclass{minimal}
\usepackage{tikz}
\usetikzlibrary{arrows,calc}
\tikzset{
%Define standard arrow tip
>=stealth',
%Define style for different line styles
help lines/.style={dashed, thick},
axis/.style={<->},
important line/.style={thick},
connection/.style={thick, dotted},
}
\newcommand\A{\ensuremath{\mathcal{A}}}
\newcommand\B{\ensuremath{\mathcal{B}}}}
\begin{document}
 \begin{tikzpicture}[scale=1.2]
    %Draw axis
    \coordinate (y) at (0,5);
```

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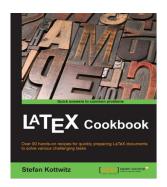
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```
\coordinate (x) at (5,0);
  \draw[axis] (y) -- (0,0) -- (x);
  %Important coordinates. These are used in both figures and can be
  %moved to a seperate settings files
  % These coordinates deside where boxes start on the y axis
  \coordinate (alphaas) at (\$0.8*(y)\$);
  \coordinate (alphabs) at (\$0.533*(y)\$);
  %% These coordinates deside where boxes end on the x axis
 \coordinate (cfas) at (\$.6*(x)\$);
  \coordinate (cfbs) at (\$.9*(x)\$);
  %These sets the interest rate lines
  \coordinate (rl) at (\$(cfas)-.2*(x)\$);
  \coordinate (rla) at (\$(rl)-.1*(x)\$);
 \coordinate (rlb) at (\$(rl)+.1*(x)\$);
  $$$$$$$$$$$$$$$$$$$$$$$$
  %We makes some boxes and connect some coordinates
  %First, let us draw a line connecting alpha^\A s og NV^\A s
  \draw[important line] let \pl=(alphaas), \p2=(cfas) in
  (\p1) \ node[left] {$\alpha_s^A$} -| (\x2, \y1) -| (\p2)
 node[below] {$\mathit{NV^\A_s}$};
  %Second, let us connect alpha^\B s og NV^B s
  \draw[] let \p1=(alphabs), \p2=(cfbs) in
  (\p1) node[left] { \left| s^{\ } - \right| (\ x2, \ y1) - \right| (\ p2) }
  node[below] {$\mathit{NV^\B s}$};
  %A line seperating the boxes.
  \draw[help lines] let <math>p1=(rl), p2=(y) in
  (\p1) \ node[below] \ \{\hat\{r\} \ L\$\} \ -- \ (\x1, \y2);
  %The small boxes will be assinged letter
  \draw let p1=(s(alphaas)-(alphabs)s), p2=(rl), p3=(alphabs) in
  (\$(.5*\x2, .5*\y1+\y3)\$) node \{\$C\$\};
 %%D
  \draw let \p1=((alphaas)-(alphabs)), \p2=((cfas)-(rl)),
  p3=(alphabs), p4=(rl) in
  (\$(.5*\x2+\x4, .5*\y1+\y3)\$) node \{\$D\$\};
 %%E
  \draw let \p1=(alphabs), \p2=(rl) in
  (\$(.5*\x2, .5*\y1)\$) node \{\$E\$\};
  \draw let \p1=(alphabs), \p2=((cfas)-(rl)), \p3=(rl) in
  (\$(.5*\x2+\x3, .5*\y1)\$) node \{\$F\$\};
  \draw let \p1=(alphabs), \p2=((cfbs)-(cfas)), \p3=(cfas) in
  (\$(.5*\x2+\x3, .5*\y1)\$) node \{\$G\$\};
\end{tikzpicture}
\begin{tikzpicture}[scale=1.2]
 %Axis
  \coordinate (y) at (0,5);
  \coordinate (x) at (5,0);
  \draw[axis] (y) -- (0,0) -- (x);
  %Important coordinates. These are used in both figures and can be
  %moved to a seperate settings files
 %% These coordinates deside where boxes start on the y axis
  \coordinate (alphaas) at (\$0.8*(y)\$);
  \coordinate (alphabs) at (\$0.533*(y)\$);
  %% These coordinates deside where boxes end on the x axis
 \coordinate (cfas) at (\$.6*(x)\$);
  \coordinate (cfbs) at (\$.9*(x)\$);
 %These sets the interest rate lines
  \coordinate (rl) at (\$(cfas)-.2*(x)\$);
  \coordinate (rla) at (\$(rl)-.1*(x)\$);
  \coordinate (rlb) at (\$(rl)+.1*(x)\$);
```

```
%We makes some boxes and connect some coordinates
   %First, let us draw a line connecting alpha^\A s og NV^\A s
    \draw[important line] let \p1=(alphaas), \p2=(cfas) in
    (\p1) node[left] \{alpha s^\A\} -| (\x2, \y1) -| (\p2)
    node[below] {$\phantom{N}\mathit{NV^\A s}$};
   %Second, let us connect alpha^\B s og NV^B s
   \draw[] let \plus p1=(alphabs), \plus p2=(cfbs) in
    (p1) node[left] {$\alpha_s^B$} -| (\x2, \y1) -| (\p2)
    node[below] {$\mathit{NV^\B s}$};
   %Here we need two lines seperating the large boxes
    \draw[help lines] let \pl=(rla), \p2=(y) in
    (\p1) node[below] \{r^{A_L}\} -- (x1, y2);
    \draw[connection] let \pl=(rlb), \pl=(y) in
    (\p1) node[below] \{ r^\ B L \} -- (x1, y2);
    %The small boxes will be assinged letter
    \det \mathfrak{p}=(s(alphaas)-(alphabs)s), \mathfrak{p}=(rla), \mathfrak{p}=(alphabs) in
    (\$(.5*\x2, .5*\y1+\y3)\$) node \{\$H\$\};
    \draw let \p1=((alphaas)-(alphabs)), \p2=((rlb)-(rla)),
    p3=(alphabs), p4=(rla) in
    (\$(.5*\x2+\x4, .5*\y1+\y3)\$) node \{\$I\$\};
   %%J
    \draw let p1=(\$(alphaas)-(alphabs)\$), p2=(\$(cfas)-(rlb)\$),
    p3=(alphabs), p4=(rlb) in
    (\$(.5*\x2+\x4, .5*\y1+\y3)\$) node \{\$J\$\};
   %%K
    \draw let \p1=(alphabs), \p2=(rla) in
    (\$(.5*\x2, .5*\y1)\$) node \{\$K\$\};
    \draw let p1=(alphabs), p2=(\$(rlb)-(rla)\$), p3=(rla) in
    (\$(.5*\x2+\x3, .5*\y1)\$) node \{\$M\$\};
   %%N
    \draw let p1=(alphabs), p2=($(cfas)-(rlb)$), p3=(rlb) in
    (\$(.5*\x2+\x3, .5*\y1)\$) node \{\$N\$\};
   %%0
   \draw let p1=(alphabs), p2=($(cfbs)-(cfas)$), p3=(cfas) in
    (\$(.5*\x2+\x3, .5*\y1)\$) node \{\$0\$\};
  \end{tikzpicture}
\end{document}
%% Local Variables:
%% mode: latex
%% TeX-master: t
%% End:
```

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