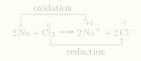


 $\gtrsim$  ငိုကဘ<del>ိုလျှ</del>ာဘက်ကျာင်*ကြ*. ငိုကဘို<del>လျှလျှ</del>က်ကုံ





## How can I reproduce this table with thick lines?

Ask Question

I'm trying to reproduce this table:

*	a	b	с	d	e
a	a	b	С	b	d
b	b	С	a	e	c
c	С	a	b	b	a
d	b	e	b	e	d
e	d	b	a	d	c

(apologies for the terrible cameraphone pic)

I don't know how to get the slightly thicker leftmost and topmost line.

Here's a minimal example of what I have so far:

Is there an easy way to make the leftmost and topmost lines thicker?

```
tables
         rules
        edited Feb 16 '13 at 15:36
             d lockstep
               187k • 50 • 578 • 713
        asked Jan 20 '12 at 18:24
               Harold
               709 • 1 • 6 • 16
  well your cam pic does have some
  nice colors! - flow Aug 28 '13 at 13:10
  @flow ... none of which appear on the
  page! Lovely, (: - Harold Aug 28 '13
  at 21:32 🖍
  Eh...finite groupoids! - MattAllegro
  Apr 26 '14 at 8:01
  Sorry, edit went in wrong place. -
```

## 2 Answers

You could define a thick version of \hline and a thick | as new column type as I did below. Both are based on the original code, only the thickness got changed from \arrayrulewidth to lpt.

Francis Davey Nov 10 '14 at 15:00 🎤

\end{tabular}									
\end{document}									
*	a	b	c	$\mid d \mid$	e				
a	a	b	c	b	d				
b	b	c	a	e	c				
c	c	a	b	b	$\overline{a}$				
d	b	e	b	e	d				
e	d	b	a	d	c				

\$e\$ & \$d\$ & \$b\$ & \$a\$ & \$d\$ & \$

On request here a definition of a thick version of \cline:

```
\newcommand{\thickcline}[1]{%
     \@thickcline #1\@nil%
}

\def\@thickcline#1-#2\@nil{%
   \omit
   \@multicnt#1%
   \advance\@multispan\m@ne
   \ifnum\@multicnt=\@ne\@firstofone
   \@multicnt#2%
   \advance\@multicnt-#1%
   \advance\@multispan\@ne
   \leaders\hrule\@height1pt\hfill
   \cr
   \noalign{\vskip-1pt}%
}
```

edited Apr 26 '14 at 7:50

answered Jan 20 '12 at 19:00



I truly love this answer, however, what if I want a thick line but from certain position on the table to another one (not coordinates, good idea anyway) like the usage of cline . — Hans Apr 25 '14 at 23:21

I mean partial horizontal thick lines. – Hans Apr 25 '14 at 23:34

2 @Hans: I added a definition for a \thickcline now. Note that if you mix it with normal \cline or \h1ine the lines will be top aligned, which doesn't look that good. —

Martin Scharrer ♦ Apr 26 '14 at 7:55

I'd really like to use this, but when I do there is a gap between the *leftmost* line and the left edge of the table and the *rightmost* line and the right edge of the table so the top line overhangs the lines going down and this looks terrible. What do I do to fix that? –

Francis Davey Nov 10 '14 at 15:01

2 @MartinScharrer Your definition of " gives me display problems when I try to place it as the left and right edge lines, e.g. \begin{tabular}{"c"c"} ... will make the horizontal lines go beyond the vertical ones at the edges. I made the following modification: \newcolumntype{[]}{@{\vrule width 1pt\hspace{6pt}}} \newcolumntype{]} {@{\hspace{6pt}\vrule width 1pt}} \newcolumntype{!} {@{\hskip\tabcolsep\vrule width 1pt\hskip\tabcolsep}} which seems to get rid of the problem used as \begin{tabular}{[c!c]} .... My! is the same as your ": for people using Kile the latter might be annoying. - Miguel Jul 21 '15 at 9:11

The package tabu provides such a modification by the optional arguments of the vertical line and the command \tabucline

*	a	$\mid b \mid$	c	$\mid d \mid$	$\mid e \mid$
$\overline{a}$	a	b	c	b	d
b	b	c	a	e	c
$\overline{c}$	c	a	b	b	a
$\overline{d}$	b	e	b	e	d
$\overline{e}$	d	b	a	d	c

However to produce nice tables avoid vertical lines and be spare with horizontal lines. For all this I recommend the package booktabs. Via google you will find a lot of examples.

answered Jan 20 '12 at 18:36



Marco Daniel

**77k** • 13 • 215 • 380

Thank you for the super-fast and cogent response. I'm going to be typesetting a fair number of these tables which define binary operations on finite sets. Can you elaborate on how you think the appearance could be improved? Should this be a separate question? — Harold Jan 20 '12 at 18:49

- This is possibly one case where rules may remain, as it's really a lattice and not a formal table. But I would avoid thick rules anyway. – egreg Jan 20 '12 at 18:56
  - @Harold: My note depends on normal tables. For your binary tables I would work in the same way but I would also increase the space between the cells.
  - Marco Daniel Jan 20 '12 at 21:18
  - @MarcoDaniel, good. Thanks. Harold Jan 20 '12 at 23:27

Dear @MarcoDaniel, how can I color one table box in tabu environment? Thanks for help, R. – user51937 Apr 7 '15 at 16:27