

Stack Overflow is a community of 4.7 million programmers, just like you, helping each other.

Join them; it only takes a minute:

Sign up

Join the Stack Overflow community to:

Ask programming questions

Answer and help your peers

Get recognized for your expertise

Set specific fill colors in ggplot2 by sign



Hi wanted to adjust the following chart so that the values below zero are filled in red and the ones above are in dark blue. How can I do this with ggplot2?

```
mydata = structure(list(Mealtime = "Breakfast", Food = "Rashers", `2002` = 9.12,
  `2003` = 9.5, `2004` = 2.04, `2005` = -20.72, `2006` = 18.37,
  `2007` = 91.19, `2008` = 94.83, `2009` = 191.96, `2010` =
-125.3,
  `2011` = -18.56, `2012` = 63.85), .Names = c("Mealtime",
"Food", "2002", "2003", "2004", "2005", "2006", "2007", "2008", "2009", "2010", "2011",
"2012"), row.names = 1L, class = "data.frame")
x=ggplot(mydata) +
  aes(x=colnames(mydata)
[3:13],y=as.numeric(mydata[1,3:13]),fill=sign(as.numeric(mydata[1,3:13]))) +
  geom_bar(stat='identity') + guides(fill=F)
print(x)
```

r graphics formatting ggplot2

asked Oct 16 '12 at 8:13

Tahnoon Pasha
1,232 2 19 45

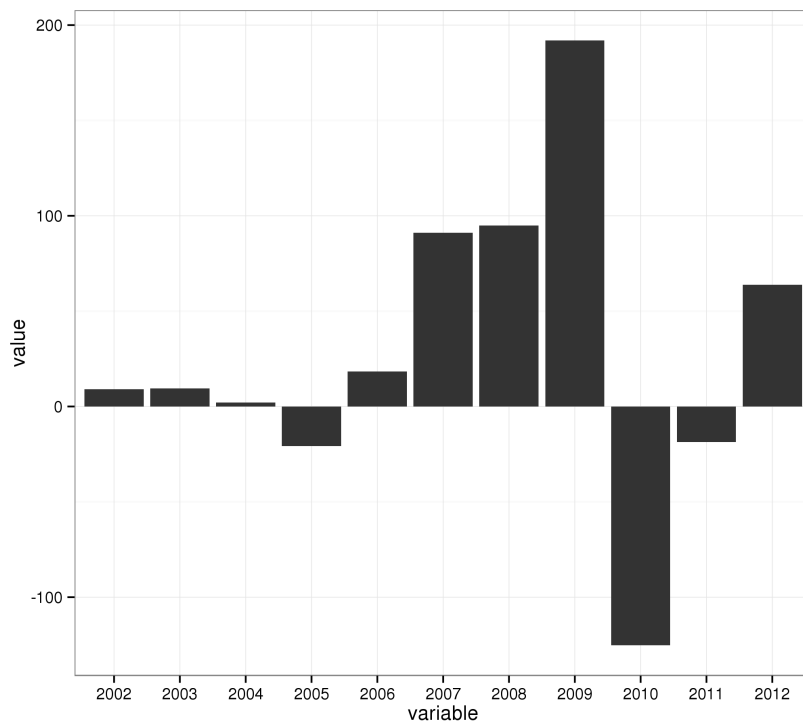
1 Answer

The way you structure your data is not how it should be in ggplot2 :

```
require(reshape)
mydata2 = melt(mydata)
```

Basic barplot:

```
ggplot(mydata2, aes(x = variable, y = value)) + geom_bar()
```

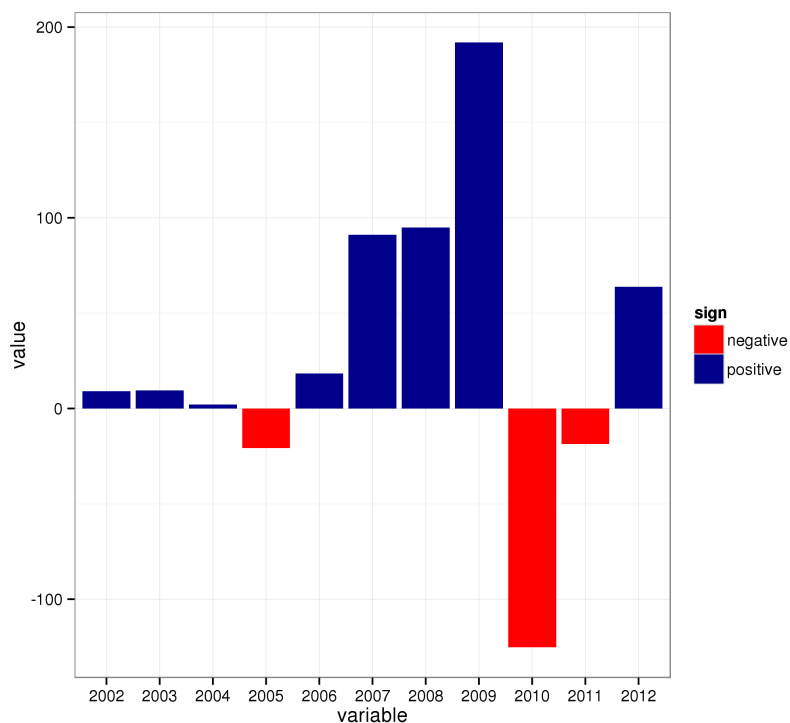


The trick now is to add an additional variable which specifies if the value is negative or positive:

```
mydata2[["sign"]] = ifelse(mydata2[["value"]] >= 0, "positive", "negative")
```

..and use that in the call to `ggplot2` (combined with `scale_fill_*` for the colors):

```
ggplot(mydata2, aes(x = variable, y = value, fill = sign)) + geom_bar() +  
  scale_fill_manual(values = c("positive" = "darkblue", "negative" = "red"))
```



edited Oct 16 '12 at 8:55

answered Oct 16 '12 at 8:50



Paul Hiemstra

35.3k 8 58 93

1 Brilliant. Thank you. `scale_fill_manual` was what I was looking for. I take your point about melting and recasting the data. I was being lazy with the `dput()`. This still works with my clunkier code + `scale_fill_manual(values=c("1" = "dark blue", "-1" = "red"))` but makes for much less accessible analysis. – [Tahnoon Pasha](#) Oct 16 '12 at 10:10

You normally do not use vectors as aesthetics. Aesthetics are a mapping of your variables (columns in a data.frame) to axes in the plot. – [Paul Hiemstra](#) Oct 16 '12 at 10:21

