

Sitemap | Boosted by PHPBoost 4.0

Generate some data

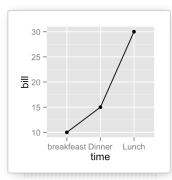
```
## time bill
## 1 breakfeast 10
## 2 Lunch 30
## 3 Dinner 15
```

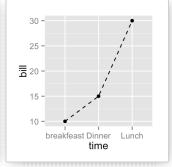
Create line plots and change line types

The argument **linetype** is used to change the line type :

```
library(ggplot2)
# Basic line plot with points
ggplot(data=df, aes(x=time, y=bill, group=1)) +
    geom_line()+
    geom_point()

# Change the line type
ggplot(data=df, aes(x=time, y=bill, group=1)) +
    geom_line(linetype = "dashed")+
    geom_point()
```





Line plot with multiple groups

Create some data

```
## sex time bill
## 1 Female breakfeast 10
## 2 Female Lunch 30
## 3 Female Dinner 15
## 4 Male breakfeast 13
## 5 Male Lunch 40
```



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6 Male Dinner 17

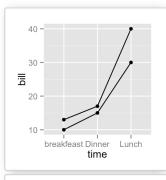
Change globally the appearance of lines

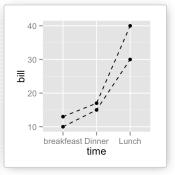
In the graphs below, line types, colors and sizes are the same for the two groups :

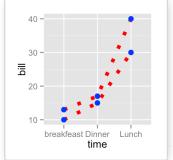
```
library(ggplot2)
# Line plot with multiple groups
ggplot(data=df2, aes(x=time, y=bill, group=sex)) +
    geom_line()+
    geom_point()

# Change line types
ggplot(data=df2, aes(x=time, y=bill, group=sex)) +
    geom_line(linetype="dashed")+
    geom_point()

# Change line colors and sizes
ggplot(data=df2, aes(x=time, y=bill, group=sex)) +
    geom_line(linetype="dotted", color="red", size=2)+
    geom_point(color="blue", size=3)
```









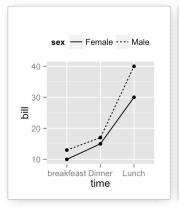
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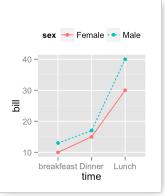
Change automatically the line types by groups

In the graphs below, line types, colors and sizes are changed automatically by the levels of the variable *sex*:

```
# Change line types by groups (sex)
ggplot(df2, aes(x=time, y=bill, group=sex)) +
  geom_line(aes(linetype=sex))+
  geom_point()+
  theme(legend.position="top")
# Change line types + colors
```

```
ggplot(df2, aes(x=time, y=bill, group=sex)) +
geom_line(aes(linetype=sex, color=sex))+
geom_point(aes(color=sex))+
theme(legend.position="top")
```





Change manually the appearance of lines

The functions below can be used :

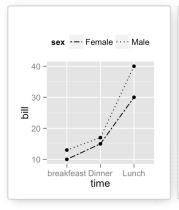
- scale_linetype_manual() : to change line types
- scale_color_manual() : to change line colors
- scale_size_manual() : to change the size of lines

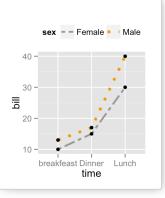
```
# Set line types manually
ggplot(df2, aes(x=time, y=bill, group=sex)) +
geom_line(aes(linetype=sex))+
geom_point()+
scale_linetype_manual(values=c("twodash", "dotted"))+
theme(legend.position="top")

# Change line colors and sizes
ggplot(df2, aes(x=time, y=bill, group=sex)) +
geom_line(aes(linetype=sex, color=sex, size=sex))+
geom_point()+
scale_linetype_manual(values=c("twodash", "dotted"))+
scale_color_manual(values=c('#9999999','#E69F00'))+
scale_size_manual(values=c(1, 1.5))+
theme(legend.position="top")
```



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Infos

