

# How can I fix the error “data must be a data frame, or other object coercible by fortify(), not a numeric vector”?

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## RECOMMENDED CITATION

stats writer (2024). *How can I fix the error “data must be a data frame, or other object coercible by fortify(), not a numeric vector”?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=155688>

This error typically occurs when a numeric vector is used instead of a data frame or another object that can be converted by the "fortify()" function. To fix this error, the numeric vector must be converted into a data frame or a compatible object before using it with the "fortify()" function. This can be done by using the "as.data.frame()" function or by creating a new data frame with the numeric vector as a column. Once the data is in the correct format, the "fortify()" function should be able to process it without any errors.

## **Fix Error: `data` must be a data frame, or other object coercible by `fortify()`, not a numeric vector**

**One error you may encounter in R is:**

**Error: `data` must be a data frame, or other object coercible by `fortify()`, not a numeric vector**

**This error occurs when you attempt to use ggplot2 to plot variables in a data frame, but you reference a vector instead of a data frame for the data argument.**

**This tutorial shares exactly how to fix this error.**

**How to Reproduce the Error**

**Suppose we have the following data frame in R:**

```
#create data frame
```

```
df <- data.frame(x=c(1, 2, 3, 4, 5, 6, 7, 8),
```

```
y=c(4, 8, 14, 19, 14, 13, 9, 9))
```

```
#view data frame
```

```
df
```

```
x y
```

```
1 1 4
```

```
2 2 8
```

```
3 3 14
```

```
4 4 19
```

```
5 5 14
```

```
6 6 13
```

```
7 7 9
```

```
8 8 9
```

Now suppose we attempt to create a scatter plot to visualize the x and y variables within the data frame:

```
library(ggplot2)#attempt to create scatter plot  
ggplot(df$x, aes(x=x, y=y)) +  
geom_point()
```

**Error: `data` must be a data frame, or other object coercible by `fortify()`, not a numeric vector**

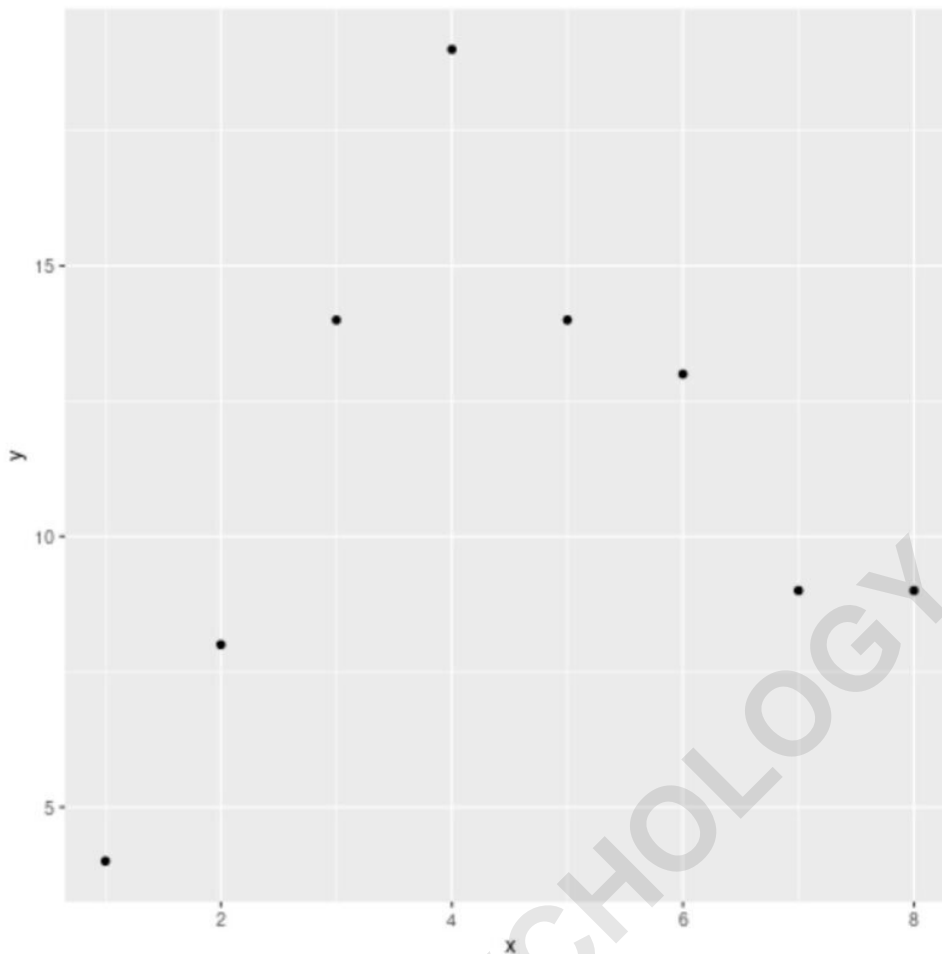
**We receive an error because we referenced a numeric vector (df\$x) within the data argument of the ggplot() function instead of a data frame.**

### **How to Fix the Error**

**The way to fix this error is to reference a data frame for the data argument within the ggplot() function.**

**In our example, we should use df instead of df\$x for the data argument:**

```
library(ggplot2)#create scatter plot  
ggplot(df, aes(x=x, y=y)) +  
geom_point()
```



**Notice that we're able to create the scatter plot successfully without any error this time.**

### **Additional Resources**

**[How to Fix: ggplot2 doesn't know how to deal with data of class uneval](#)**