

Assignment_4 – Tidyverse skills – 10.5

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February 20, 2018

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1. How can you tell if an object is a tibble? (Hint: try printing mtcars, which is a regular data frame).

```
is_tibble(mtcars)
class(mtcars)
```

2. Compare and contrast the following operations on a data.frame and equivalent tibble. What is different? Why might the default data frame behaviors cause you frustration?

When using dataframes, the `df$x` command would give the same result as `df[, "xyz"]` column. When the `df[]` command is used, the result is a data frame with the same structure as the original data frame.

3. If you have the name of a variable stored in an object, e.g. `var <- "mpg"`, how can you extract the reference variable from a tibble?

```
"df[[var]]"
```

4. Practice referring to non-syntactic names in the following data frame by:

```
something <- tibble(
  `1` = 1:5,
  `2` = `1` * 2 + rnorm(length(`1`))
)
```

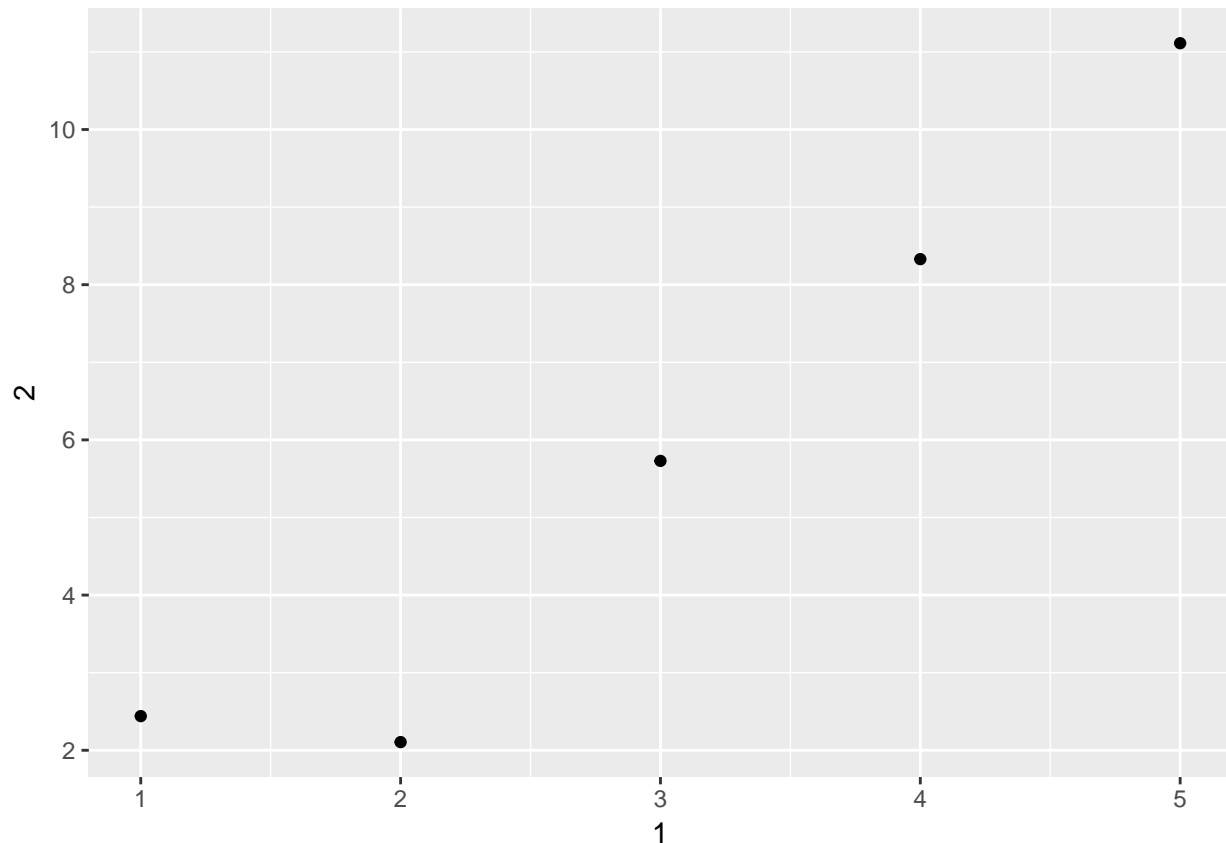
1. extracting the variable called 1

```
something[["1"]]
```

```
## [1] 1 2 3 4 5
```

2. Plotting a scatterplot of 1 vs 2.

```
ggplot(something, aes(x = `1`, y = `2`)) + geom_point()
```



3. Creating a new column 3 with is 2 divided by 1:

```
something[["3"]] <- something[["2"]] / something[["1"]]
```

4. Renaming the columns to one, two, and three:

```
something_great <- rename(something, one = `1`, two = `2`, three = `3`)
something_great
```

```
## # A tibble: 5 x 3
##   one    two three
##   <int> <dbl> <dbl>
## 1     1  2.44  2.44
## 2     2  2.11  1.05
## 3     3  5.73  1.91
## 4     4  8.33  2.08
## 5     5 11.1   2.22
```

5. What does `tibble::enframe()` do? When might you use it?

It converts named vectors to a data frame with names and values

it is used to combine vectors to dataframe with col names

6. What option controls how many additional column names are printed at the footer of a tibble?

The print function for tibbles is in `print.tbl_df`:

```
print(... , n_extra = ...)
```

we can use `n_extra` in the tibble print function to control the number of columns printed.