

# Subsetting tibbles works differently than dataframes

```
df <- tibble(  
  x = runif(5),  
  y = rnorm(5)  
)  
  
# Extract by name  
df$x  
#> [1] 0.7330 0.2344 0.6604 0.0329 0.4605  
df[["x"]]  
#> [1] 0.7330 0.2344 0.6604 0.0329 0.4605  
  
# Extract by position  
df[[1]]  
#> [1] 0.7330 0.2344 0.6604 0.0329 0.4605
```

Compared to a `data.frame`, tibbles are more strict: they never do partial matching, and they will generate a warning if the column you are trying to access does not exist.

# Tibbles are “better behaved” than data frames

## **A tibble never:**

- Changes the type of the inputs (e.g. it never converts strings to factors!)
- Changes the names of variables
- Creates row names