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## Rstudio shiny ggvis tooltip on mouse hover



In the example below, I have an interactive shiny ggvis plot, but I added a `long` column that is a long string and for some reason, my hover pop-up shows `wt` and `mpg` but does not show `long`.

Also, if the list of elements in the legend is too long, they are hidden at the bottom right corner of the plot. Is there any way to stack these in several columns in the legend?

Any ideas?

```
# ui.R
library(ggvis)
shinyUI(pageWithSidebar(
  div(),
  sidebarPanel(
    sliderInput("n", "Number of points", min = 1, max = nrow(mtcars),
      value = 10, step = 1),
    uiOutput("plot_ui")
  ),
  mainPanel(
    ggvisOutput("plot"),
    tableOutput("mtc_table")
  )
))

# server.R
library(shiny)
library(ggvis)
shinyServer(function(input, output, session) {
  # A reactive subset of mtcars
  mtc <- reactive({
    data = mtcars[1:input$n, ]
    data$long = as.character(paste0("A car with ", data$cyl, " cylinders and ", data$gear,
  gears and ", data$carb, " carburetors"))
    data
  })
  # A simple visualisation. In shiny apps, need to register observers
  # and tell shiny where to put the controls
  mtc %>%
    ggvis(~wt, ~mpg) %>%
    layer_points(fill = ~factor(long)) %>%
    add_tooltip(function(data){paste0("Wt: ", data$wt, "<br>", "Mpg:
", as.character(data$mpg), "<br>", "String: ", as.character(data$long))}, "hover") %>%
    bind_shiny("plot", "plot_ui")

  output$mtc_table <- renderTable({
    mtc()[, c("wt", "mpg", "long")]
  })
})
```

r shiny ggvis

edited Jul 25 '14 at 15:57

asked Jul 25 '14 at 15:46

6-0150-179 719016  
270 KB/AI  
4 1560 APB  
3872 APB/ 900 5 20 64

### 1 Answer

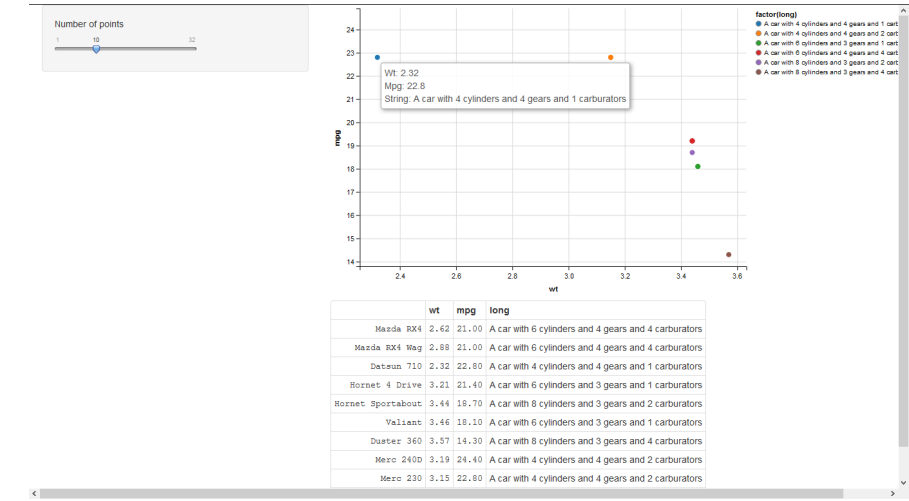
You need to add `long` as a key currently `data$long` is null in the anonymous function supplied to `add_tooltip`:

```
library(shiny)
library(ggvis)

runApp(list(ui = pageWithSidebar(
  div(),
  sidebarPanel(
    sliderInput("n", "Number of points", min = 1, max = nrow(mtcars),
      value = 10, step = 1),
    uiOutput("plot_ui")
  ),
  mainPanel(
    ggvisOutput("plot"),
```

```
tableOutput("mtc_table")
)
)
, server= function(input, output, session) {
  # A reactive subset of mtcars
  mtc <- reactive({
    data = mtcars[1:input$n, ]
    data$long = as.character(paste0("A car with ",data$cyl," cylinders and ",data$gear,"
gears and ",data$carb, " carburators"))
    data
  })
  # A simple visualisation. In shiny apps, need to register observers
  # and tell shiny where to put the controls
  mtc %>%
    ggvis(~wt, ~mpg, key:= ~long) %>%
    layer_points(fill = ~factor(long)) %>%
    add_tooltip(function(data){
      paste0("Wt: ", data$wt, "<br>", "Mpg: ",as.character(data$mpg), "<br>", "String: ",
as.character(data$long))
    }, "hover") %>%
    bind_shiny("plot", "plot_ui")

  output$mtc_table <- renderTable({
    mtc()[, c("wt", "mpg", "long")]
  })
})
)
```



answered Jul 25 '14 at 15:59

jdharison

14.2k 1 13 35

- what about if I want to add more columns to the tooltip? How do I add them to key ? – 719016 Jul 30 '14 at 13:52
- this doesn't work if long is not unique. the key must be unique – yahiaelgamal Dec 2 '14 at 8:15
- @20050-8519-21102-26896-16937 See note about adding an ID to the dataframe from which you want to pull more [data] cols. [rpackages.ianhowson.com/cran/ggvis/man/add\\_tooltip.html](http://rpackages.ianhowson.com/cran/ggvis/man/add_tooltip.html) – c.gutierrez Jan 19 at 23:26