shinyscript

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# Shiny App
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# JSC
# shinyApp is r package that builds interactive web apps( not page).
# uses R coding and interactiveness of web to create a reactive experience.
# ui : user interface: this is the controls and layout/appearance of the app. This is what the user wil
# server: the coding instructions for the shiny app
# control widgets: web elements that users will interact with.
# library(shiny)
# #Define UI ----
# ui <- fluidPage(
# titlePanel(""),
# sidebarLayout(
    sidebarPanel(
#
#
    ),
#
    mainPanel(
#
#
# )
# #Define server ----
# server <- function(input,output){</pre>
# }
# #Run the app ----
# shinyApp(ui=ui,server = server)
library(shiny)
ui <- fluidPage(
  # add a title to shiny App
 titlePanel("This is a Test shiny"),
  # create sidebar for interactive elements
  sidebarLayout(position ="left",
                # add sidebar panel
                sidebarPanel(
                  # add a header in side panel
                  h1("This is my first Header"),
                  h2("second"),
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h3("third"),
                  # add in widgets. widgets allow user to change elements
                  # selectInput requires: name, label, choices)
                  selectInput("X",label = "X", names(trees)),
                  selectInput("Y", label = "Y", names(trees))),
                mainPanel(
                  # add a header in main panel as well
                  h1("header"),
                  # bold text
                  h2(strong("Header 2")),
                  # add a paragraph
                  p("This is a paragraph about my graph. It's a plot of how many x are in a square. Use
                  # add line breaks
                  br(),
                  # add an image
                  img(src = "ant.jpg",height = 75, width = 75),
                  # insert the "output", the main reactive element
                  plotOutput("TreePlot")
 )
server <- function(input,output){</pre>
  # combine the selected variables into new data frame
  selectedData <- reactive({</pre>
    trees[,c(input$X,input$Y)]
 })
  # use render plot to add to reactive element
  output$TreePlot <- renderPlot({</pre>
    \# basic plot function thats built into r
    plot(selectedData(),
# type refers how the data is shown: p - points, l - lines, b - both
         type = "p",
# change point:using pch values stored in 'plot' function. 21.25 - color and fill points, 19 - solid ci
         pch = 21.25,
         col = "black",
         bg = "blue",
# add a main title to graph
         main = "This is the main title of the Graph",
```

Shiny applications not supported in static R Markdown documents