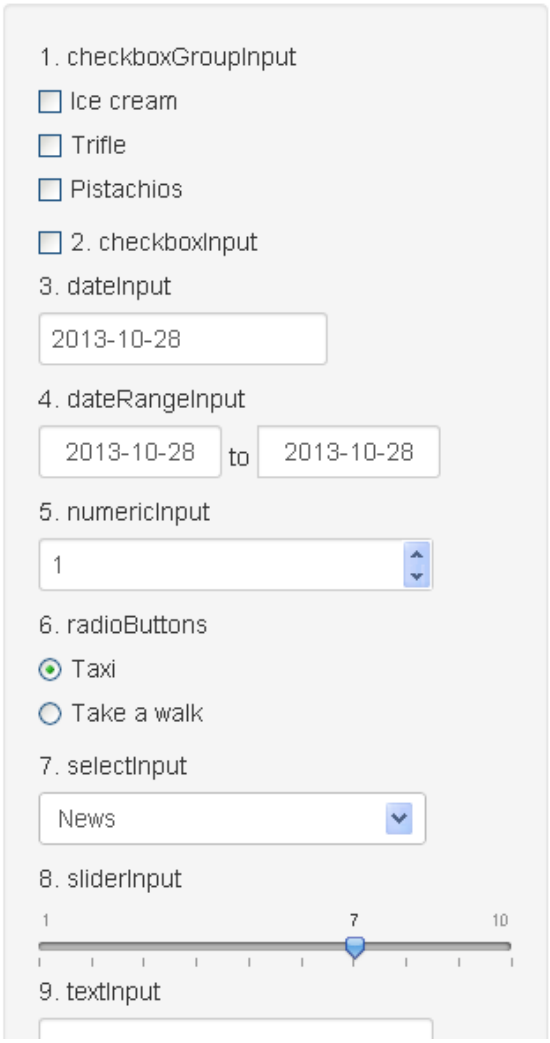
Chris Beeley : Demo to show widget types, return values and data types in Shiny

- http://chrisbeeley.net/
- https://gist.github.com/ChrisBeeley/6571951

- Inputs in the Side Panel
- Inputs and Class of Inputs returned in Table on Main Panel

Widget values and data types



Output and data type

	Value	Class
1		NULL
2	FALSE	logical
3	2013-10-28	Date
4	2013-10-28 2013-10-28	Date
5	1	numeric
6	Taxi	character
7	News	character
8	7	numeric
9		character

Widgets - ui.R (1)

```
library(shiny)

shinyUI(pageWithSidebar(

  headerPanel("Widget values and data types"),

  sidebarPanel(

    checkboxGroupInput(inputId = "checkGroup",
         label = "1. checkboxGroupInput",
         choices = list("Ice cream" = "IC", "Trifle" = "Trifle",
              "Pistachios" = "Pist")),

    checkboxInput(inputId = "boxInput",
                  label = "2. checkboxInput"),

    dateInput(inputId = "theDate",
              label = "3. dateInput"),

    dateRangeInput(inputId = "dateRange",
                   label = "4. dateRangeInput"),

    numericInput(inputId = "pickNumber",
                 label = "5. numericInput",
                 min = 1, max = 10, value = 1),

    radioButtons(inputId = "pickRadio",
                 label = "6. radioButtons",
                 choices = list("Taxi" = "Taxi",
                     "Take a walk" = "Walk")),

    selectInput(inputId = "comboBox",
                label = "7. selectInput",
                choices = list("News" = "News",
                   "Situation comedy" = "Sitcom",
                   "Film" = "Film")),

    sliderInput(inputId = "slider",
                label = "8. sliderInput",
                min = 1, max = 10, value = 7, step = 1),

    textInput(inputId = "comment",
              label = "9. textInput",
              value = "")

  ),

  mainPanel(
    h3("Output and data type"),
    tableOutput("textDisplay")
  )
))
```

ui.R (2)

```
library(shiny)

shinyUI(pageWithSidebar(

  headerPanel("Widget values and data types"),

  sidebarPanel(

    checkboxGroupInput(inputId = "checkGroup",
         label = "1. checkboxGroupInput",
         choices = list("Ice cream" = "IC", "Trifle" = "Trifle",
              "Pistachios" = "Pist")),

    checkboxInput(inputId = "boxInput",
                  label = "2. checkboxInput"),

    dateInput(inputId = "theDate",
              label = "3. dateInput"),

    dateRangeInput(inputId = "dateRange",
                   label = "4. dateRangeInput"),

    numericInput(inputId = "pickNumber",
                 label = "5. numericInput",
                 min = 1, max = 10, value = 1),

    radioButtons(inputId = "pickRadio",
                 label = "6. radioButtons",
                 choices = list("Taxi" = "Taxi",
                     "Take a walk" = "Walk")),

    selectInput(inputId = "comboBox",
                label = "7. selectInput",
                choices = list("News" = "News",
                   "Situation comedy" = "Sitcom",
                   "Film" = "Film")),

    sliderInput(inputId = "slider",
                label = "8. sliderInput",
                min = 1, max = 10, value = 7, step = 1),

    textInput(inputId = "comment",
              label = "9. textInput",
              value = "")

  ),

  mainPanel(
    h3("Output and data type"),
    tableOutput("textDisplay")
  )
))
```

server.R (1)

```
library(shiny)

shinyServer(function(input, output) {

  output$textDisplay <- renderTable({

  getMat = matrix(c(paste(
             #----------------------------------#
             #Input 1 and 2
             input$checkGroup, collapse=','),
             class(input$checkGroup),
             input$boxInput, class(input$boxInput),
             #----------------------------------#
             # Input 3 and 4
             as.character(as.Date(input$theDate,
                origin = "1970-01- 01")), class(input$theDate),
             paste(as.character(as.Date(input$dateRange[1],
                origin = "1970-01-01")),
             as.character(as.Date(input$dateRange[2],
                origin = "1970- 01-01")), collapse = ','),
             class(input$dateRange),
             #----------------------------------#
             # Inputs 5 to 9
             input$pickNumber, class(input$pickNumber),
             input$pickRadio, class(input$pickRadio),
             input$comboBox, class(input$comboBox),
             input$slider, class(input$slider),
             input$comment, class(input$comment)
             ), ncol=2, byrow = TRUE)

    colnames(getMat) = c("Value", "Class")

    getMat

  })
})
```

server.R (2)

```
library(shiny)

shinyServer(function(input, output) {

  # renderTable command used to construct output table


  output$textDisplay <- renderTable({

  # Normal R Code - just setting up a "data frame" style matrix

  getMat = matrix(c(paste(#----------------------------------#
            #Input 1 and 2
            input$checkGroup, collapse=','),
            class(input$checkGroup),
            input$boxInput, class(input$boxInput),
            #----------------------------------#
            # Input 3 and 4
            as.character(as.Date(input$theDate,
               origin = "1970-01- 01")), class(input$theDate),
            paste(as.character(as.Date(input$dateRange[1],
               origin = "1970-01-01")),
            as.character(as.Date(input$dateRange[2],
               origin = "1970- 01-01")), collapse = ','),
            class(input$dateRange),
            #----------------------------------#
            # Inputs 5 to 9
            input$pickNumber, class(input$pickNumber),
            input$pickRadio, class(input$pickRadio),
            input$comboBox, class(input$comboBox),
            input$slider, class(input$slider),
            input$comment, class(input$comment)
            ), ncol=2, byrow = TRUE)

    colnames(getMat) = c("Value", "Class")

    getMat

  })
})
```

server.R (2)

```
library(shiny)

shinyServer(function(input, output) {

  output$textDisplay <- renderTable({

  getMat = matrix(c(paste(
            input$checkGroup, collapse=','),
            class(input$checkGroup),
            input$boxInput, class(input$boxInput),

            as.character(as.Date(input$theDate,
               origin = "1970-01- 01")), class(input$theDate),
            paste(as.character(as.Date(input$dateRange[1],
               origin = "1970-01-01")),

            as.character(as.Date(input$dateRange[2],
               origin = "1970- 01-01")), collapse = ','),
            class(input$dateRange),

            input$pickNumber, class(input$pickNumber),
            input$pickRadio, class(input$pickRadio),

            input$comboBox, class(input$comboBox),
            input$slider, class(input$slider),

            input$comment, class(input$comment)
            ), ncol=2, byrow = TRUE)

    colnames(getMat) = c("Value", "Class")

    getMat

  })
})
```