Reactive Functions

Output function	creates
`htmlOutput`	raw HTML
`imageOutput`	image
`plotOutput`	plot
`tableOutput`	table
`textOutput`	text
`uiOutput`	raw HTML
`verbatimTextOutput`	text

Rendering Functions

render function	creates
`renderImage`	images (saved as a link to a source file)
`renderPlot`	plots
`renderPrint`	any printed output
`renderTable`	data frame, matrix, other table like structures
`renderText`	character strings
`renderUI`	a Shiny tag object or HTML

Rendering Functions - Examples

- `renderPlot` - Renders a reactive plot that is suitable for assigning to an output slot. `expr` is an expression that generates a plot.

```
renderPlot(expr, width = "auto", height = "auto",.....)
```

- `renderTable` - Creates a reactive table that is suitable for assigning to an output slot.

```
renderTable(expr, ..., ......)
```

Communicating between Functions

- Output from `server.R` passed a list like object.

- Reactive Components of `ui.R` use this output

ui.R

```
shinyUI(fluidPage(
  titlePanel("censusVis"),
....
    mainPanel(
      textOutput("text1")
    )
  )
))
....
```

server.R

```
....
shinyServer(
  function(input, output) {

    output$text1 <- renderText({
      paste("You have selected", input$var)
    })

  }
)
....
```