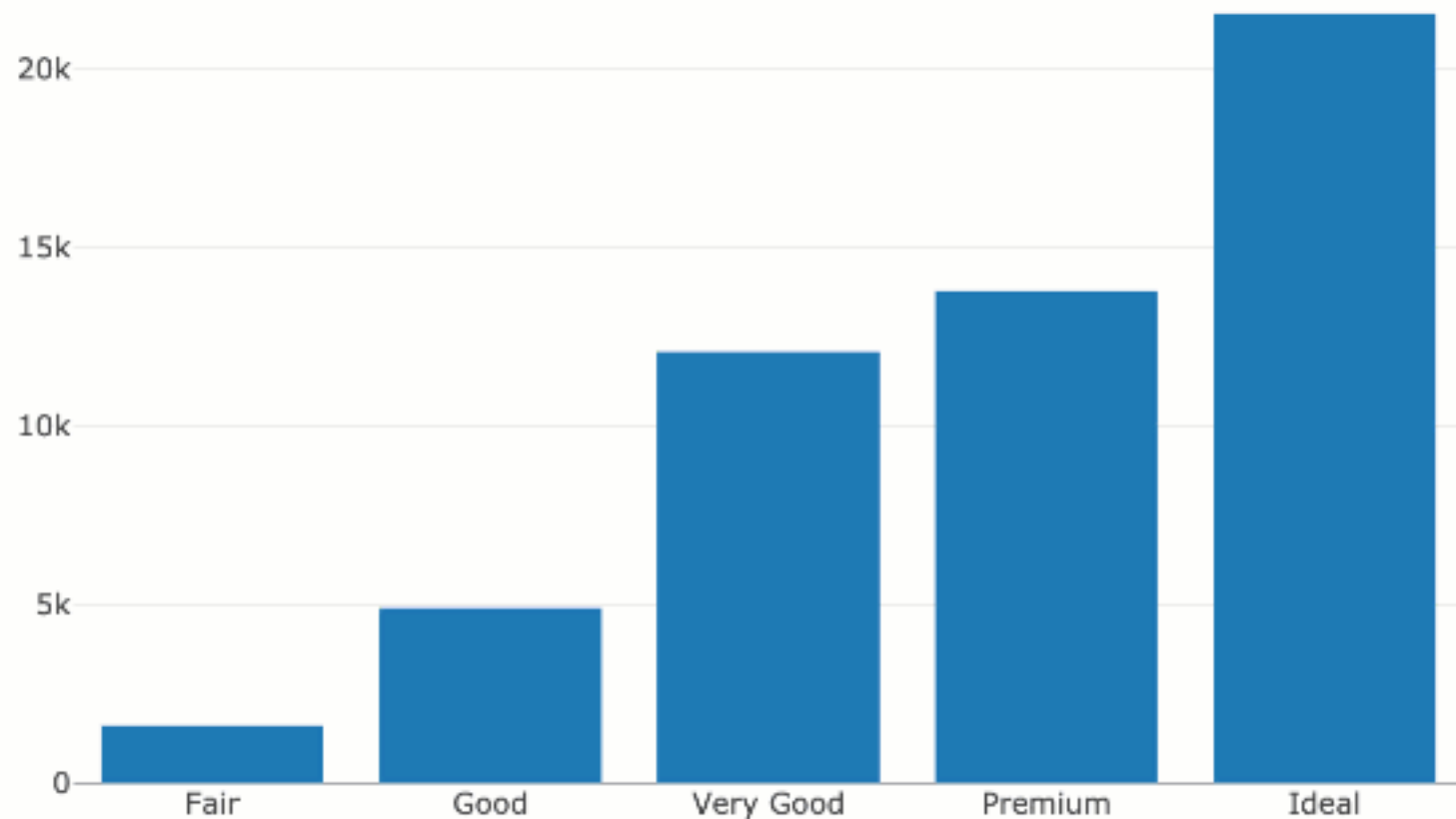


Shiny: Interactive webapps in R

- Easily turn your R code into an interactive GUI.
- Allow users to **quickly explore** different parameters, models/
algorithms, other information



Choose a variable

cut

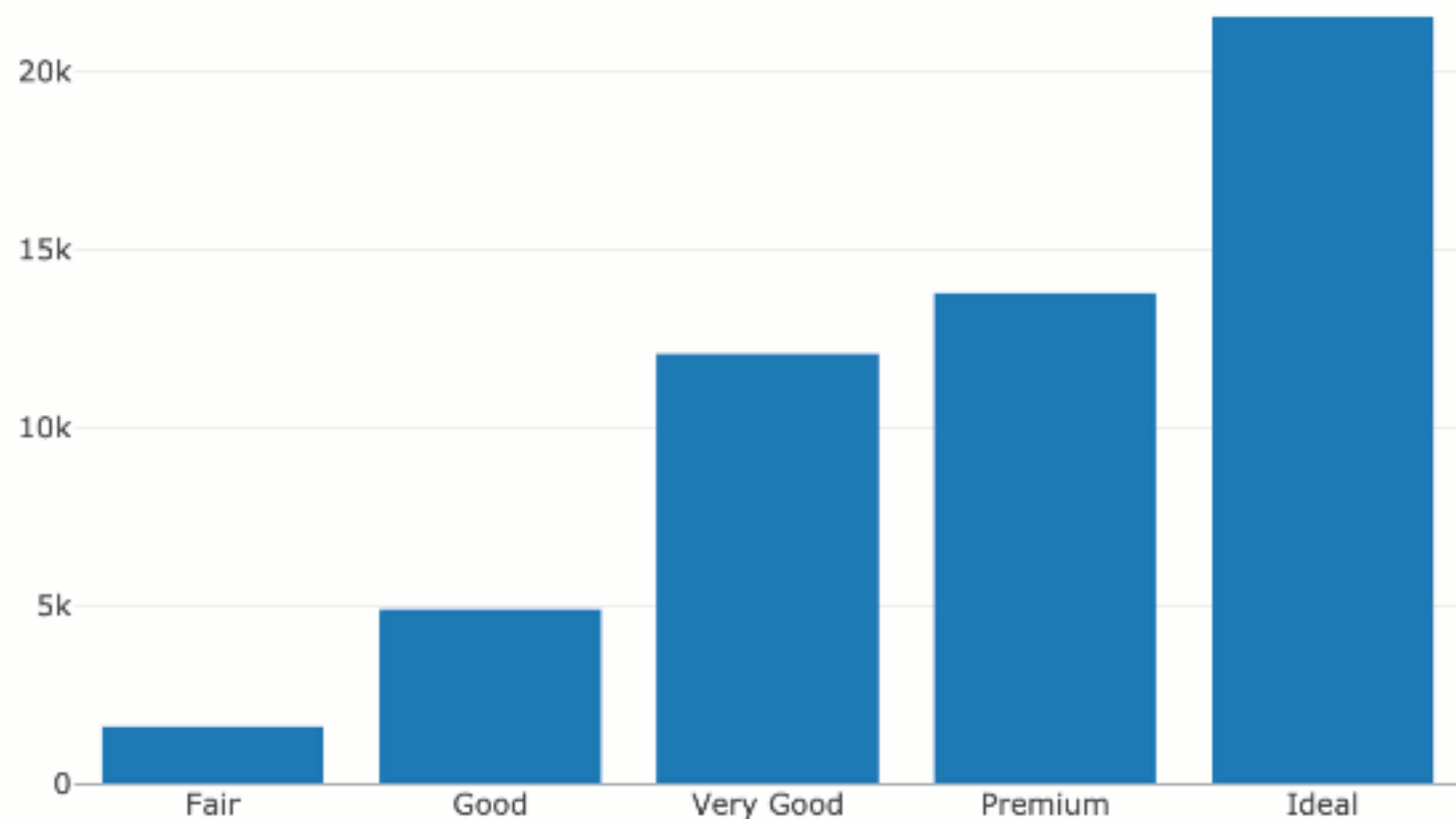
app.R

```
library(shiny)
library(plotly)

ui <- fluidPage(
  plotlyOutput("p"),
  selectInput(
    "x", "Choose a variable",
    choices = names(diamonds)
  )
)

server <- function(input, output) {
  output$p <- renderPlotly({
    plot_ly(x = diamonds[[input$x]])
  })
}

shinyApp(ui, server)
```



Choose a variable

cut

app.R

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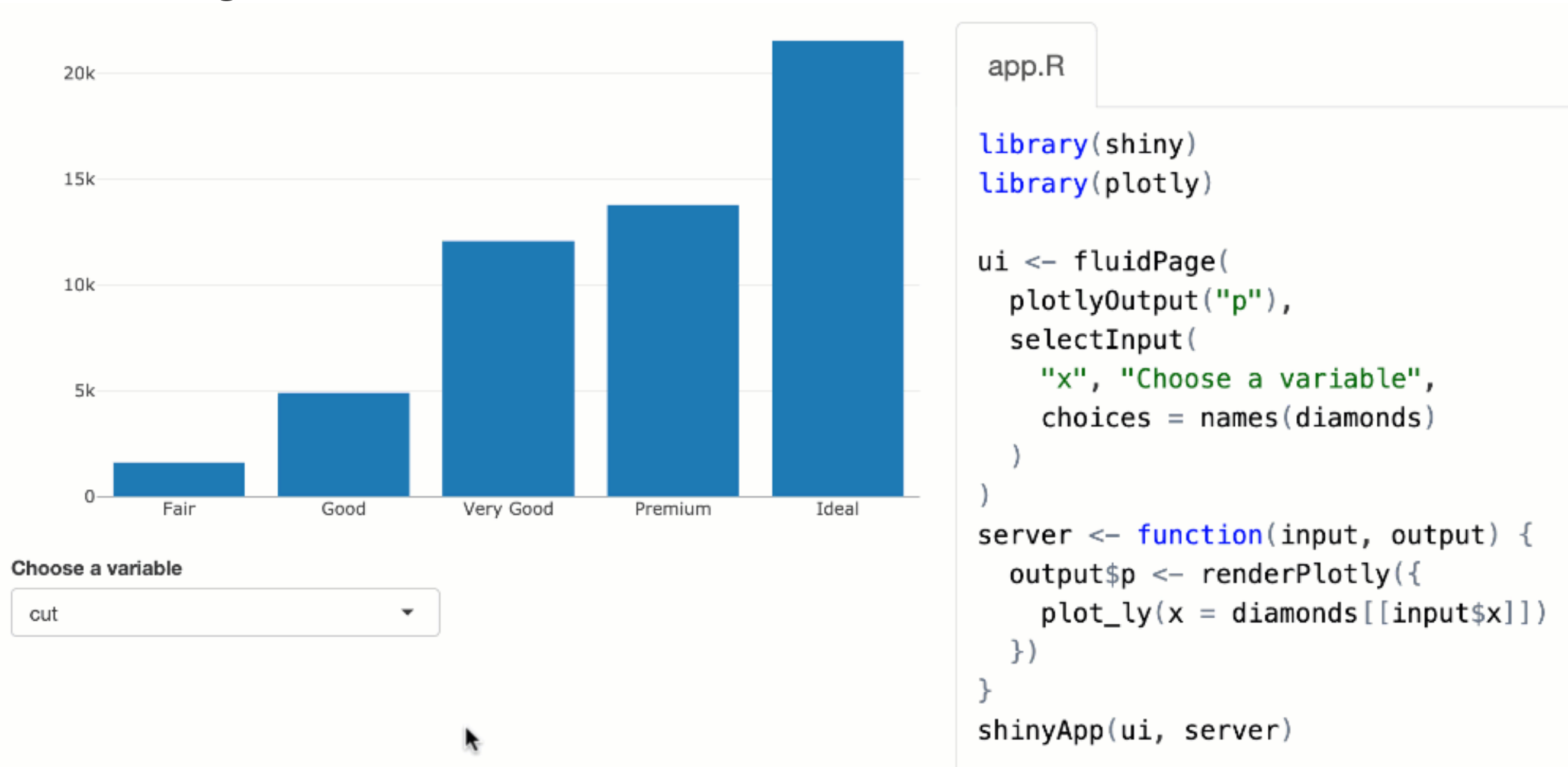
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Interactivity is great, but **reproducibility suffers**

- Reproducing results is *possible* by replicating user events (or bookmarking), but results are **locked behind a GUI**
- Even if you can view the app's source code, the **domain logic is intertwined** with Shiny code
 - Methodology is less transparent
 - Harder to verify results are 'correct'