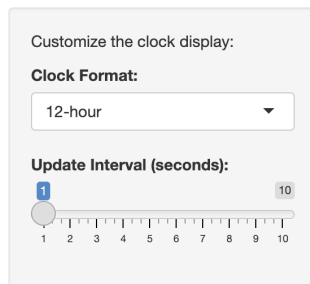


Challenge 8

Jaren Ong

2023-10-11

Customized Real-Time Clock with Date



Customize the clock display:

Clock Format:

12-hour

Update Interval (seconds):

1 2 3 4 5 6 7 8 9 10

07:50:20 PM

Wednesday, October 11, 2023

Figure 1: Modification of Example 11 in Shiny

```
# Code for the above screenshot

library(shiny)

# Define UI with customizations ----
ui <- fluidPage(
  titlePanel("Customized Real-Time Clock with Date"),
  sidebarLayout(
    sidebarPanel(
      p("Customize the clock display:"),
      selectInput("clock_format", "Clock Format:",
        choices = c("24-hour" = "%H:%M:%S", "12-hour" = "%I:%M:%S %p"), selected = "%H:%M:%S"),
      sliderInput("update_interval", "Update Interval (seconds):", min = 1, max = 10, value = 1)
    ),
    mainPanel(
      h1(textOutput("current_time", container = span)),
      h2(textOutput("current_date", container = span))
    )
  )
)

# Define server logic with customizations ----
server <- function(input, output, session) {
  output$current_time <- renderText({
    invalidateLater(input$update_interval * 1000, session)
    format(Sys.time(), input$clock_format)
  })
}
```

```
output$current_date <- renderText({  
  format(Sys.Date(), "%A, %B %d, %Y")  
})  
}  
  
# Create the Shiny app with customizations ----  
shinyApp(ui, server)
```