

Data Visualization with R Shiny tutorial

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Hiding elements

Name the panels:

```
tabsetPanel(id = "theTabs",  
tabPanel( ... , value = "trend"),  
  ...  
)
```

Add a condition to show an UI element only if a tab is selected:

```
conditionalpanel(  
  condition = "input.theTabs == 'trend'",  
  checkboxInput( ... )  
)
```

Tables - Basic Shiny

In ui.R:

```
tableOutput("textDisplay")
```

In server.R

```
output$textDisplay = renderTable({  
  getMat = matrix(c( ... ), ncol = 2, byrow = TRUE)  
  colnames(getMat) = c("Value", "Class")  
  getMat  
})
```

Tables - With package DT (DataTable)

In ui.R:

```
dataTableOutput("countryTable")
```

In server.R

```
output$countryTable = renderDataTable({  
  dataTable(  
    ... ,  
    colnames = ... ,  
    caption = ... ,  
    filter = "top",  
    options = list(pageLength = 15,  
                    lengthMenu = c(10, 20, 50))  
  })
```

Reactive user interfaces

In ui.R:

```
uiOutput("yearSelectorUI")
```

In server.R

```
output$yearSelectorUI = renderUI(  
  selectedYears = ...  
  selectInput( ... , selectedYears)  
)
```

When the value in `selectedYears` change, the choice of years in the widget will also change.

Progress bar

If some computation in `server.R` can take a long time, it is useful to wrap the corresponding code inside the `Shiny withProgress()` function.

In `server.R`

```
withProgress(message = ... ,  
  detail = ' ... ', value = 0,  
  ... function code ...  
  incProgress(1/3)  
  ... function code ...  
  incProgress(1/3)  
  ... function code ...  
  incProgress(1/3)  
  ... function code ...  
})
```