
SHINY UI

Omayma Said

LEVELS OF ABSTRACTION

High-level functions

`fluidRow(..)`

htmltools tags

`div(class="row", ...)`

Raw HTML markup

`<div class = "row">...</div>`

htmltools TAGS

```
> tags$a(href = "www.rstudio.com", "Rstudio")
```

```
<a href = "www.rstudio.com">Rstudio</a>
```

htmltools TAGS

h1(...)

h2(...)

h3(...)

h4(...)

h5(...)

h5(...)

div(...)

span(...)

img(...)

iframe(...)

video(...)

embed(...)

b(...)

em(...)

i(...)

strong(...)

pre(...)

script(...)

And more...

htmltools TAGS

h1(...)

h2(...)

h3(...)

h4(...)

h5(...)

h5(...)

div(...)

span(...)

img(...)

iframe(...)

video(...)

embed(...)

b(...)

em(...)

i(...)

strong(...)

pre(...)

script(...)

> names(tags)

NESTED TAGS

```
tags$ul(  
  tags$li("item 1"),  
  tags$li("item 2"),  
  tags$li("item 3")  
)
```



```
<ul>  
  <li>item 1</li>  
  <li>item 2</li>  
  <li>item 3</li>  
</ul>
```

NESTED TAGS

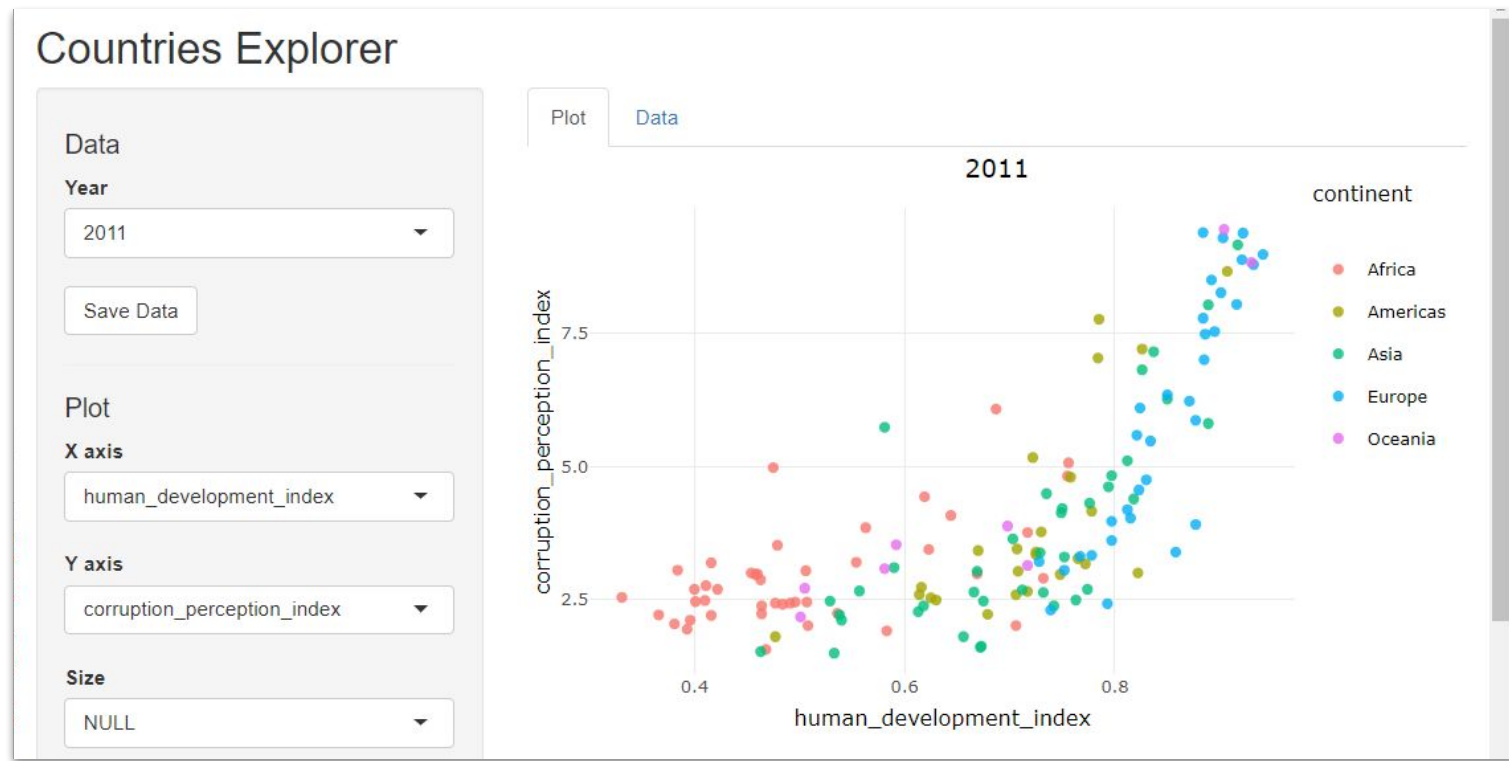
```
tags$p("Corruption Perception Index data source:",  
      tags$a("Transparency International",  
             href = "http://www.transparency.org"))
```



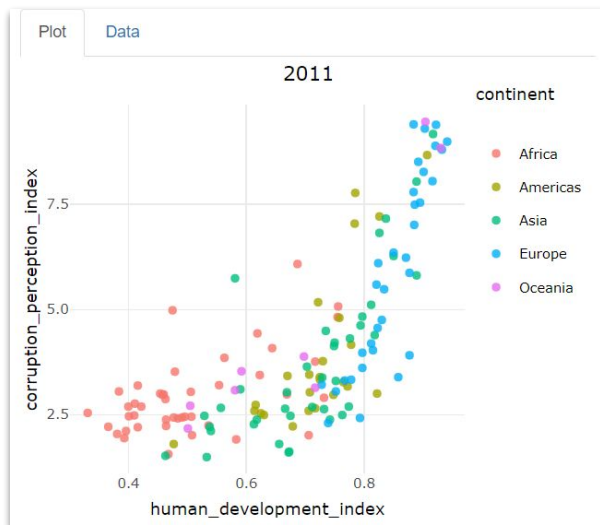
```
<p>  
  Corruption Perception Index data source:  
  <a href="http://www.transparency.org">Transparency International</a>  
</p>
```

TABS

countries-18.R



```
tabsetPanel(type = "tabs",
  tabPanel(title = "Plot",
    plotlyOutput(outputId = "countries_scatter")),
  tabPanel(title = "Data",
    DT::dataTableOutput(outputId = "countries_table"))
)
```



Plot Data

Show 10 entries Search:

continent	gdp_median	life_exp_median
Africa	1344.18	59.53
Americas	6986.05	73.95
Asia	5562.48	73.13
Europe	24985.25	80.44
Oceania	3942.05	70.99

Showing 1 to 5 of 5 entries Previous 1 Next

EXERCISE

- Open **countries-18.R**.
- Add a new tab with info about the app.

countries-19.R

Countries Explorer

Data

Year

2011 ▼

Save Data

Plot

X axis

human_development_index ▼

Y axis

corruption_perception_index ▼

Plot

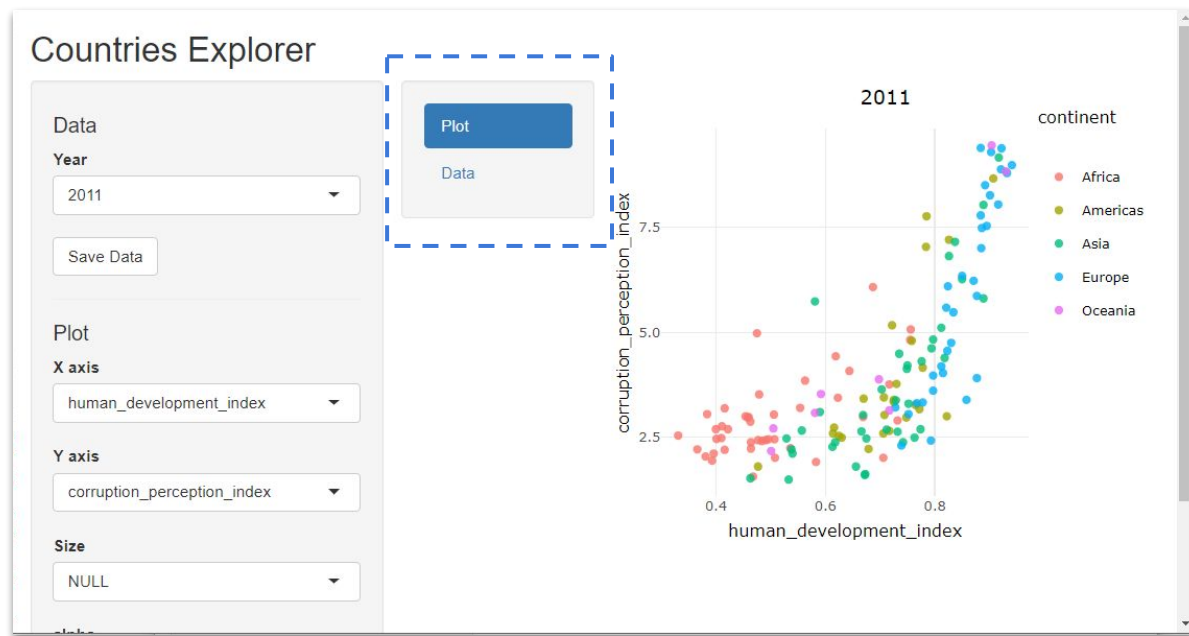
Data

Info

Corruption Perception Index data source: [Transparency International](#)

```
navlistPanel(
  ...
  ...
)
```

countries-20.R



countries-20.R

Countries Explorer

Data

Year

2011

Save Data

Plot

X axis

human_development_index

Y axis

corruption_perception_index

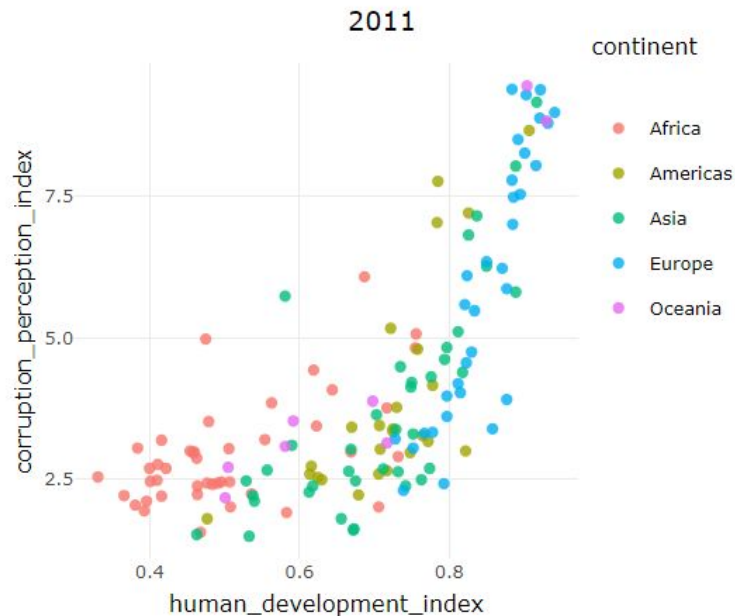
Size

NULL

Plot

Data

Info



countries-21.R

Countries Explorer

Data

Year

2011 ▼

Save Data

Plot

X axis

human_development_index ▼

Y axis

corruption_perception_index ▼

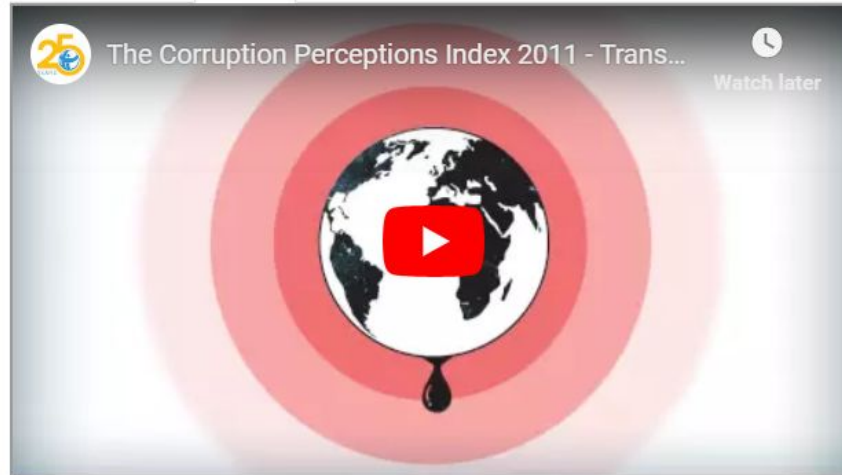
Size

NULL ▼

Plot

Data

Video



countries-22.R

Countries Explorer

Data

Year

2011 ▼

Save Data

Plot

X axis

human_development_index ▼

Y axis

corruption_perception_index ▼

Size

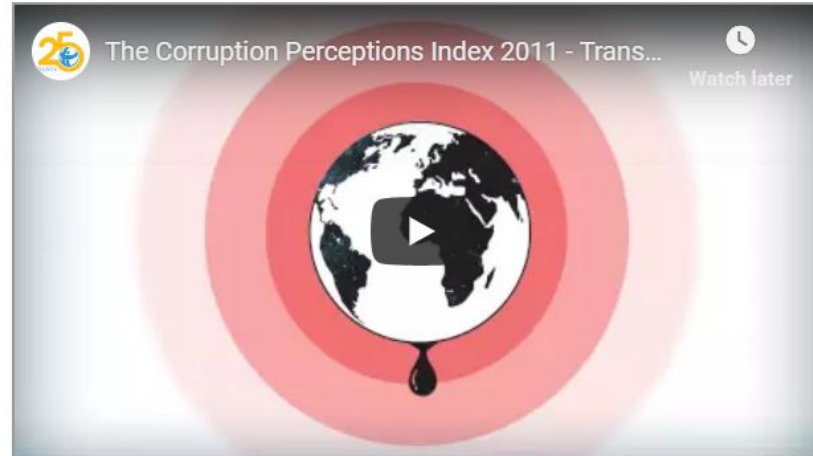
NULL ▼

Plot

Data

Video

Corruption Perceptions Index 2011



Video by Transparency International

SHINY THEMES

SHINY THEMES

Cerulean

Navbar 1 Plot Table

File Input:

Text Input:

Slider Input:

Default action button:

actionButton with CSS class:

Tab 1 Tab 2 Tab 3

Table

speed	dist
4.00	2.00
4.00	10.00
7.00	4.00
7.00	22.00

Verbatim text output

general, 10, 1000

Header 1
Header 2
Header 3
Header 4
Header 5

Cosmo

Navbar 1 Plot Table

File Input:

Text Input:

Slider Input:

Default action button:

actionButton with CSS class:

Tab 1 Tab 2 Tab 3

Table

speed	dist
4.00	2.00
4.00	10.00
7.00	4.00
7.00	22.00

Verbatim text output

general, 10, 1000

Header 1
Header 2
Header 3
Header 4
Header 5

Cyborg

Navbar 1 Plot Table

File Input:

Text Input:

Slider Input:

Default action button:

actionButton with CSS class:

Tab 1 Tab 2 Tab 3

Table

speed	dist
4.00	2.00
4.00	10.00
7.00	4.00
7.00	22.00

Verbatim text output

general, 10, 1000

Header 1
Header 2
Header 3
Header 4
Header 5

Darkly

Navbar 1 Plot Table

File Input:

Text Input:

Slider Input:

Default action button:

actionButton with CSS class:

Tab 1 Tab 2 Tab 3

Table

speed	dist
4.00	2.00
4.00	10.00
7.00	4.00
7.00	22.00

Verbatim text output

general, 10, 1000

Header 1
Header 2
Header 3
Header 4
Header 5

Flatly

Navbar 1 Plot Table

File Input:

Text Input:

Slider Input:

Default action button:

actionButton with CSS class:

Tab 1 Tab 2 Tab 3

Table

speed	dist
4.00	2.00
4.00	10.00
7.00	4.00
7.00	22.00

Verbatim text output

general, 10, 1000

Header 1
Header 2
Header 3
Header 4
Header 5

JOURNAL

Navbar 1 Plot Table

File Input:

Text Input:

Slider Input:

Default action button:

actionButton with CSS class:

Tab 1 Tab 2 Tab 3

Table

speed	dist
4.00	2.00
4.00	10.00
7.00	4.00
7.00	22.00

Verbatim text output

general, 10, 1000

Header 1
Header 2
Header 3
Header 4
Header 5

<https://rstudio.github.io/shinythemes/>

```
ui <- fluidPage(  
  themeSelector(), ...  
)
```

Countries Explorer

