



Mine Çetinkaya-Rundel

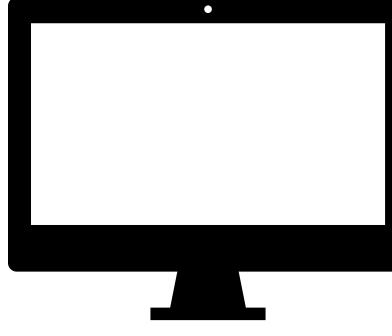
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gallery.shinyapps.io/un-women-dash



DEMO



Dashboards

- Built in layouts and UI elements
- Good venue for displaying automatically updating data
- May or may not be interactive



- Static:

- R code runs once and generates an HTML page
- Generation of this HTML can be scheduled

- Dynamic:

- Client web browser connects to an R session running on server
- User input causes server to do things and send information back to client
- Interactivity can be on client and server
- Can update data in real time
- User potentially can do anything that R can do



Building a dashboard



1. Set up the YAML

```
title: "UN Women Stats Explorer"
output:
  flexdashboard::flex_dashboard:
    orientation: rows
    social: menu
     SOURCE_code: https://github.com/mine-cetinkaya-rundel/rladies-phl-shiny/blob/master/01-flexdash/un-
women-dash.Rmd
runtime: shiny
```



Dashboard

Data





2. Pick a layout

```
2 title: "Row Orientation"
 3 output:
 4 flexdashboard::flex_dashboard:
      orientation: rows
 8 Row
11 ### Chart 1
12
13 ```{r}
15 ```
16
17 Row
19
20 ### Chart 2
22 ```{r}
23
24 · · · ·
26 ### Chart 3
28
29
30
31
```

Chart 1

Chart 2

Chart 3



3. Use R Markdown and/or Shiny code to add components

```
selectInput(inputId = "x", label = "X-axis",
 choices = c("Average number of hours spent on unpaid domestic
and care work"
             = "hrs_unpaid_dom_care_work",
          "Average number of hours spent on paid and unpaid
domestic and care work combined"
             = "hrs_dom_care_work",...),
 selected = "labor_force")
renderPlot({
 ggplot(data = sel_data(),
         mapping = aes_string(x = inputx, y = inputy, color = "region")
    geom_point(size = 2, alpha = 0.8) +
    theme_minimal() +
    labs(x = xlab(), y = ylab(), color = "Region")
  })
```

Your turn

- Open un-women-dash.Rmd
- Change the default selection of years to the min_year to 2014
- Run the app
- Select view mode in the drop down menu next to Run App to Preview in Viewer Pane
- Rerun the app





