

Shiny II (Reactive Programming, Lecture 11)

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Table of contents I

Do-pair-share: solution

Starting on the **UI-side**, add radio buttons

```
app_ui = ui.page_fluid(  
  ui.input_select(...),  
  ui.input_radio_buttons(id = 'outcome', label = 'Choose an  
  ↪ outcome:', choices = ["Cases", "Deaths"]), #new code  
  ui.output_plot('ts'),  
  ui.output_table("subsetting_data_table")  
)
```

Do-pair-share: solution

Then on **server-side**:

```
@render.plot
def ts():
    df = subsetting_data()
    if input.outcome() == "Cases": #begin new code
        series = df['cases']      #
    if input.outcome() == "Deaths":#
        series = df['deaths']     # end new code
    fig, ax = plt.subplots(figsize=(3,6))
    ax.plot(df['date'], series)
    ax.tick_params(axis = 'x', rotation = 45)
    ax.set_xlabel('Date')
    ax.set_ylabel(input.outcome())
    ax.set_title(f'COVID-19 {input.outcome()} in {input.state()}')
    ax.set_yticklabels(['{:,'.format(int(x)) for x in ax.get_yticks()])
    return fig
```

Do-pair-share: solution

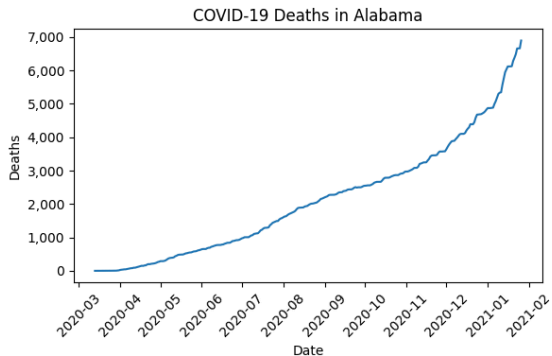
Choose a state:

Alabama ▼

Choose an outcome:

☐ Cases

☒ Deaths



date	state	fips	cases	deaths
2020-03-13	Alabama	1	6	0