

# A Shiny Application

- The shiny application pitched in this presentation is [here](#)
- The Shiny app source code is [here](#)

## What does the app do?

- Allows you to visualise the areas of US states in square miles using the US State Facts and Figures dataset.
- You can use sliders to select an area range to display and checkboxes to show different regions
- The output is an interactive map of the US showing the states that satisfy the selected criteria.

## Under the hood

- A data frame called `states` was created using the vectors from the US Facts and Figures Dataset.
- A fourth column (`hover`) was added for the interactivity of the map.

```
head(states)
```

##	state.name	state.area	state.region	hover
## 1	Alabama	51609	South	Alabama: 51609 square miles
## 2	Alaska	589757	West	Alaska: 589757 square miles
## 3	Arizona	113909	West	Arizona: 113909 square miles
## 4	Arkansas	53104	South	Arkansas: 53104 square miles
## 5	California	158693	West	California: 158693 square miles
## 6	Colorado	104247	West	Colorado: 104247 square miles

# Output

- The slider values and checkbox values are used to filter the dataset using the `state.name` and `state.region` columns before creating the map.
- The output is a googlevis interactive map.
- The states turn green when they satisfy the selected criteria (slider and checkboxes)
- When each green state is hovered over, the name and area of the state is displayed.