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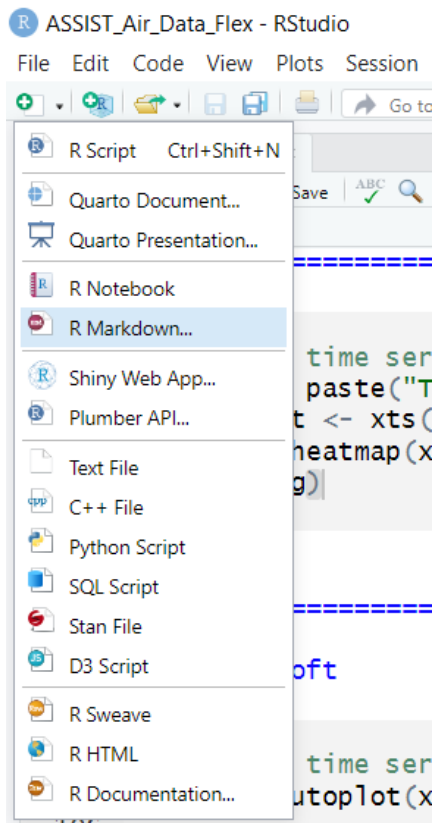
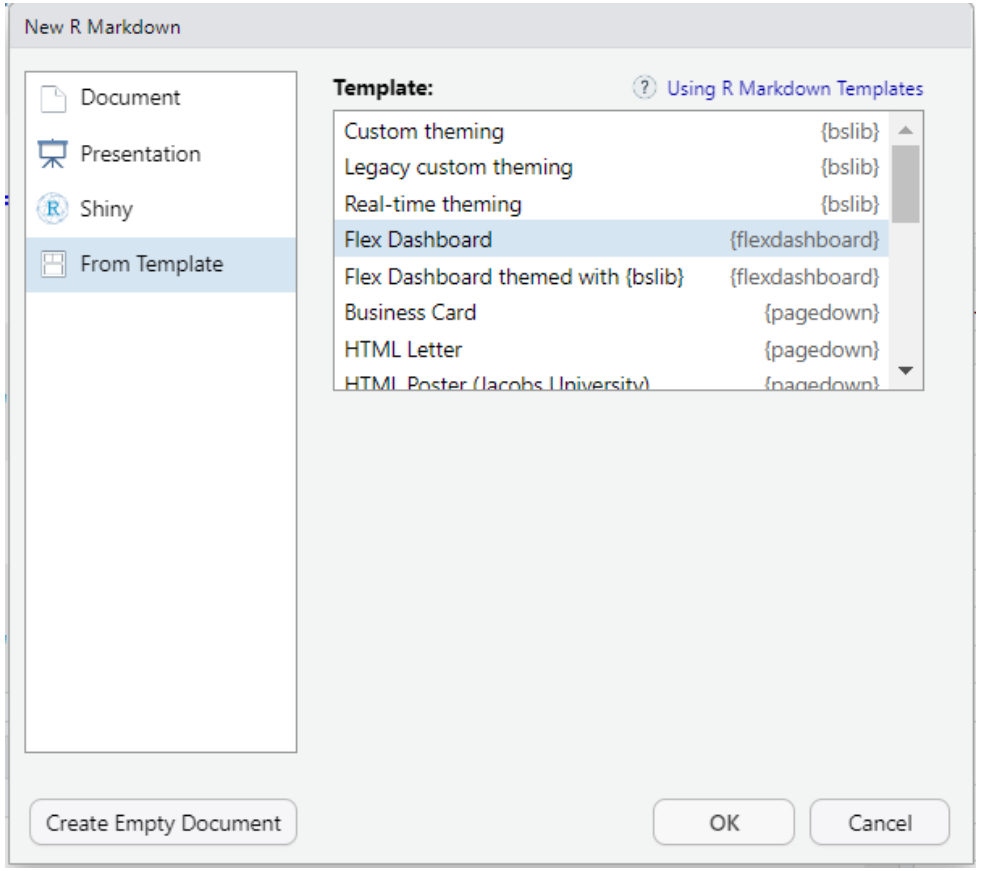
R flexdashboard for visuals

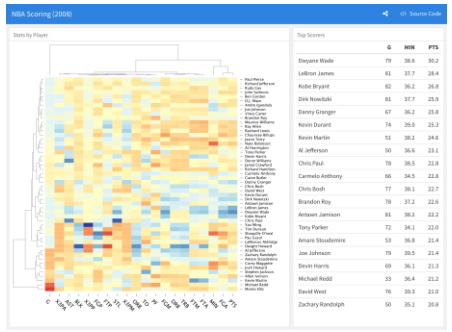
RStudio / File / R Markdown... / From Template / Flex Dashboard

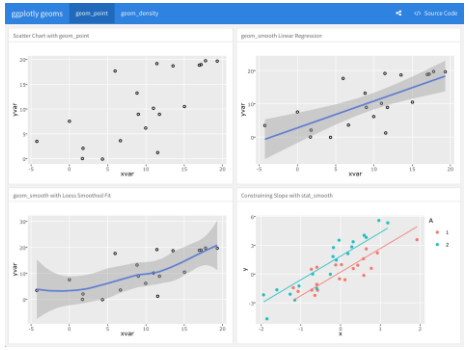


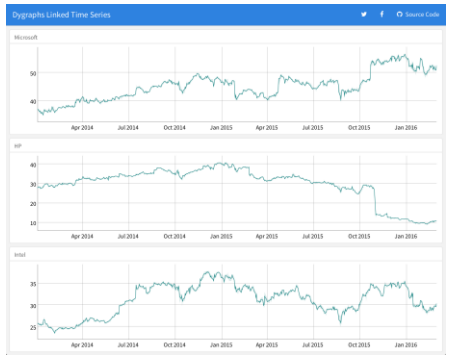


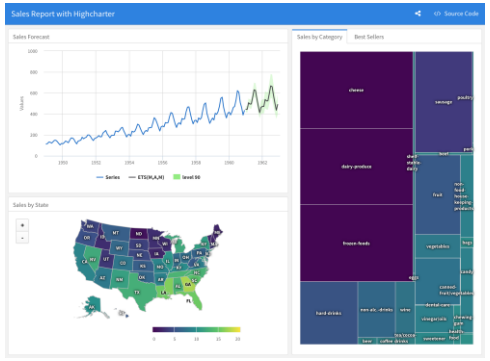
2 types of solutions are possible using R flexdashboard

1) simple generated .html = static result

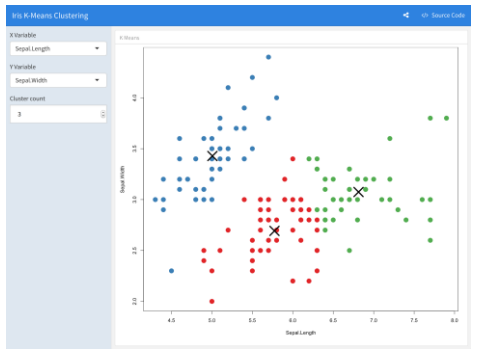


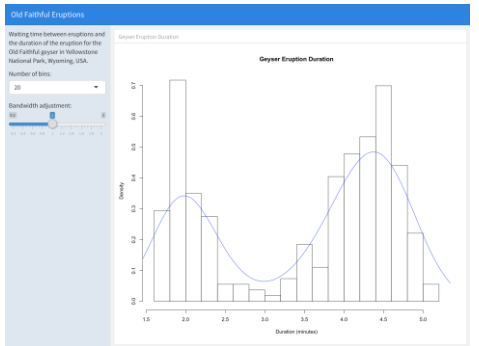


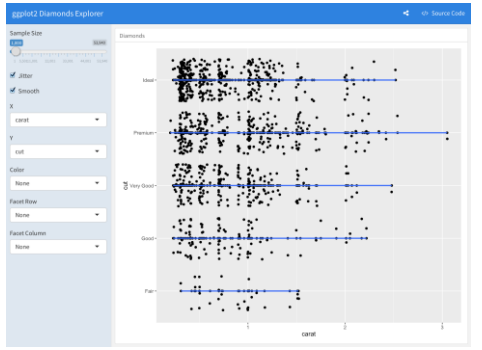


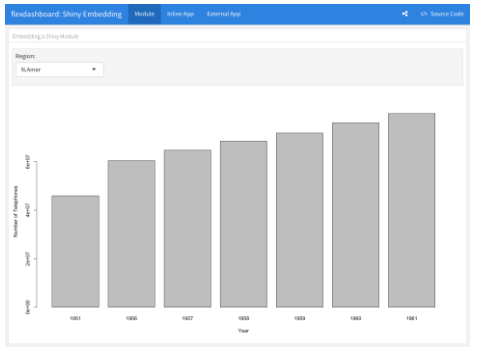


2) Shiny App = a lot more interactivity









Examples: https://pkgs.rstudio.com/flexdashboard/articles/examples.html

- 1st type: simple generated .html = static result
  - NBA scoring with d3heatmap – https://testing-apps.shinyapps.io/flexdashboard-d3heatmap/
  - ggplotly: ggplot2 geoms – https://testing-apps.shinyapps.io/flexdashboard-ggplotly/
  - Linked time-series with dygraphs – https://testing-apps.shinyapps.io/flexdashboard-dygraphs/
  - Sales report with highcharter – https://testing-apps.shinyapps.io/flexdashboard-highcharter/

- 2nd type: Shiny App = a lot more interactivity
  - Shiny: kmeans clustering – https://testing-apps.shinyapps.io/flexdashboard-shiny-kmeans/
  - Shiny: Old faithful eruptions – https://testing-apps.shinyapps.io/flexdashboard-shiny-eruptions/
  - Shiny: Diamonds explorer – https://testing-apps.shinyapps.io/flexdashboard-shiny-ggplot2-diamonds/
  - Shiny: Embedding – https://testing-apps.shinyapps.io/flexdashboard-shiny-embedding/

Sample layouts: Chart Stack (Fill)

```
---
title: "Chart Stack"
output: flexdashboard::flex_dashboard
---

### Chart 1

```{r}

```

Chart 2

```{r}

```
```

Sample layouts: Chart Stack (Scrolling)

```
---
title: "Chart Stack (Scrolling)"
output:
  flexdashboard::flex_dashboard:
    vertical_layout: scroll
---

### Chart 1

```{r}
```

Chart 2

```{r}
```

Chart 3

```{r}
```
```

Sample layout: Focal Chart (Top)

```
---
title: "Focal Chart (Top)"
output:
  flexdashboard::flex_dashboard:
    orientation: rows
---

Row {data-height=650}
-------------------------------------

### Chart 1

```{r}
```

Row {data-height=350}

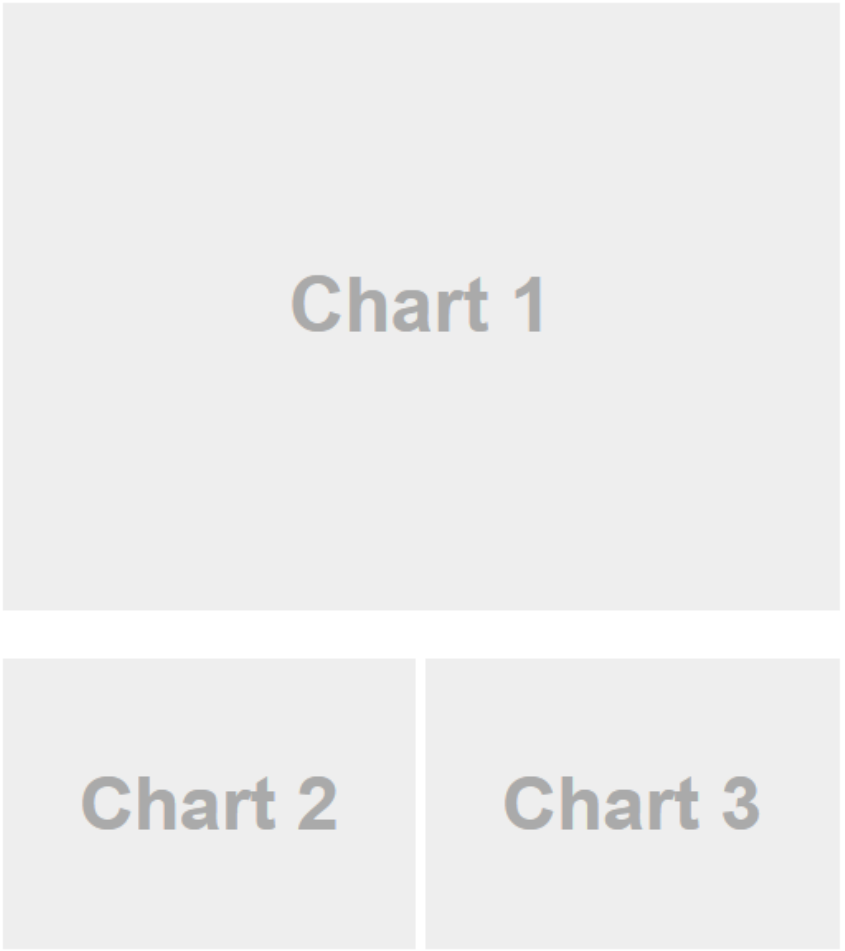
Chart 2

```{r}
```

Chart 3

```{r}
```

```



# Sample layout: Tabset Row

```
---
title: "Tabset Row"
output:
  flexdashboard::flex_dashboard:
    orientation: rows

Row

Chart 1

```{r}
```

Row {.tabset .tabset-fade}

Chart 2

```{r}
```

Chart 3

```{r}
```

```

# Sample layout: Multiple Pages

Source Visual

```
---
title: "Multiple Pages"
output: flexdashboard::flex_dashboard

Page 1
=====================================

Page 2 {data-orientation=rows}
=====================================

Row {data-height=600}

Chart 1

```{r}
```

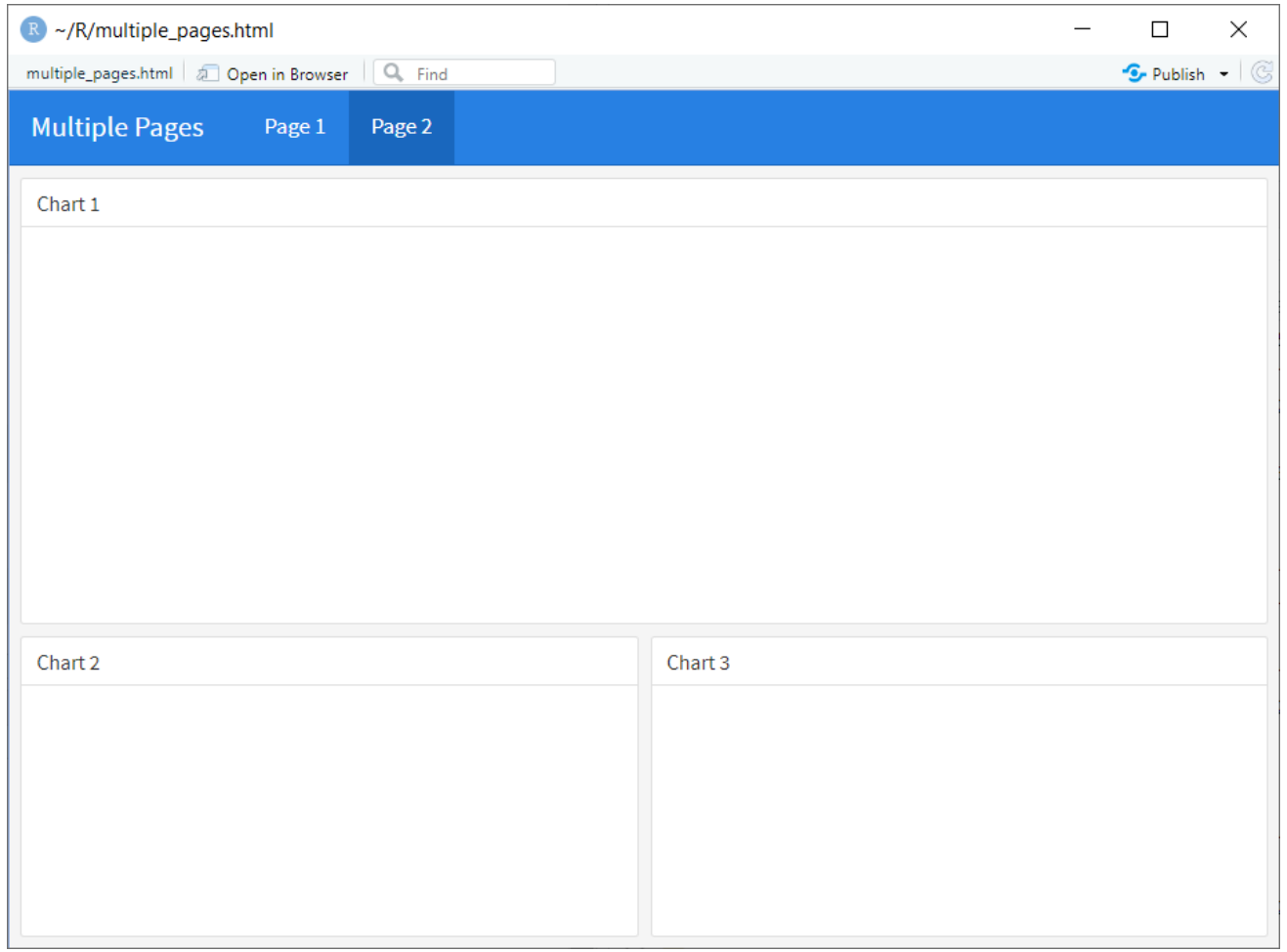
Row {data-height=400}

Chart 2

```{r}
```

Chart 3

```{r}
```
```



Comparison of popular dashboard solutions in R and Python

Language	Python, R	R	Python	R, Python	Python, R	Python	Python	Python	Python	Python	Python	Python
Solution	Jupyter Notebook	flexdashboard	jupyter-flex	Shiny	Dash	Panel	Streamlit	Gradio	Solara	Taipy	Mesop	NiceGUI
Hosting	.html, ngrok	.html, shinyapps.io, Hugging Face	.html, Gihub + Binder	shinyapps.io, Hugging Face	Render	.html, Render, Hugging Face	ngrok, Streamlit Cloud, Render, Hugging Face	Render, Hugging Face	ngrok, Panel, Ploomber Cloud	Taipy Cloud, Python Anywhere	Render, Google Cloud Run	Render, fly.io, Traefik

Panel vs. Dash – https://panel.holoviz.org/explanation/comparisons/compare_dash.html

Panel vs. Streamlit – https://panel.holoviz.org/explanation/comparisons/compare_streamlit.html

Streamlit vs. Taipy – https://blog.dailydoseofds.com/p/why-taipy-must-always-be-your-go

Streamlit vs. Mesop – https://google.github.io/mesop/comparison/
https://medium.com/google-cloud/did-google-just-kill-streamlit-76f719d9e275

Thank you for attention

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