Where Shiny Shines and Dash Disappoints: How to get started with reactive web GUIs in python

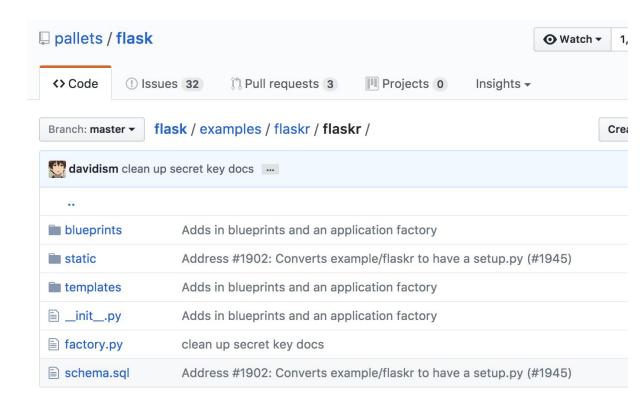
Kevin Mader/ CTO 4Quant https://github.com/4Quant/DashIntro

Why?

You build cool tools other people need to use them

Web GUIs

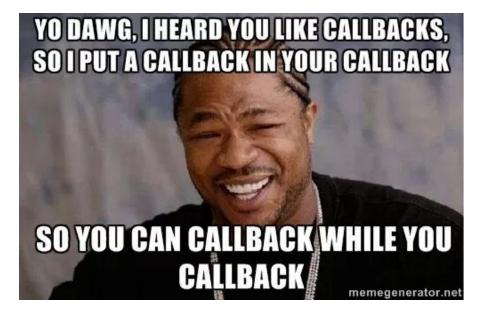
- 1. Server (backend)
 - a. Python
 - b. Flask
 - c. Django
 - d. Tornado
 - e. SimpleHTTPServer
- 2. Client (front-end)
 - a. Javascript
 - b. ReactJS
 - c. VueJS
 - d. New one every week



Web GUIs

- Callback hell
- 2. Add new button to website
- 3. Add new hook to backend
- 4. Add new template to code
- 5. Pull hair out making sure all names match input-var != input_var

6.



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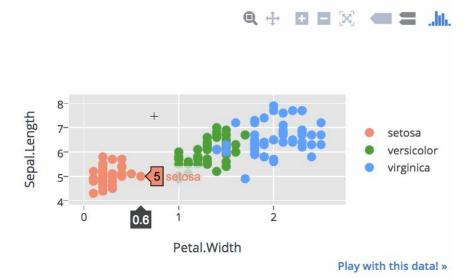
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Enter Shiny

https://www.showmeshiny.com/

Plotly in Shiny





Just use a DAG

https://shiny.rstudio.com/gallery/single-file-shiny-app.html

```
n <- 200
# Define the UI
ui <- bootstrapPage(</pre>
  numericInput('n', 'Number of obs', n),
  plotOutput('plot')
# Define the server code
server <- function(input, output) {</pre>
  output$plot <- renderPlot({</pre>
    hist(runif(input$n))
  })
# Return a Shiny app object
shinyApp(ui = ui, server = server)
```

Global variables can go here

Dash

https://www.showmeshiny.com/

