Advanced Programming with Python. Session 7

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https://slides.com/pepegar/app-7/live

Dash

https://dash.plot.ly

Dash is a library for creating data visualizations

Dash. Layout

We can create HTML layouts directly in Python with Dash import dash_core_components as dcc import dash_html_components as html html.Div(children = [html.H1("title"), dcc.Dropdown(id="district", options=districts, multi=True. value=[districts[0]["value"]] 1)

Dash. Graphs

```
import dash_core_components as dcc
import dash_html_components as html
dcc.Graph(
    id='first-graph',
    figure={
        'data': [
            {'x': [1, 2, 3], 'y': [4, 1, 2], 'type': 'bar'
            {'x': [1, 2, 3], 'y': [2, 4, 5], 'type': 'bar'
        ],
        'layout': {
            'title': 'Dash Data Visualization'
```

Practice

see session-7/example-1

Dash. Callbacks

def update(districts):

pass

callbacks make our Dash applications interactive. They're

Practice

let's see

 $example-2-callbacks/simple_callback.py$

Practice

But, callbacks can do much more than that, they can modify graphs whenever some component value is changed by the user

let's see

example-3-callbacks/more_callbacks.py

Dash. More interesting example

All the examples we've seen so far fairly simple, let's see a more interesting example in

example-3/server.py

Exercise

Modify example-3 so that it filters by accident type (**TIPO ACCIDENTE**) too