Dash Framework Walkthrough

!! TL;DR – Dash is the original low-code framework for rapidly building data apps in Python. It is capable of developing localhost visualizations with dataframes, CSVs, and more.

----LINK TO GITHUB REPOSITORY----

Code Snippets

Imports

```
from dash import Dash, html, dcc
import pandas as pd
import plotly.express as px
import plotly.io as io
io.templates.default = 'plotly_dark'
```

- Dash components build the foundation for the site
- Pandas parses CSV into dataframe
- Plotly libraries institute plots and allow for stylizing of site

Initialization

```
df = pd.read_csv('NAME.csv')
app = Dash(__name__)
```

- Import data from CSV into Pandas dataframe
- Dash constructor to configure site
- Name ‘app.py’ is customary usage for Dash

Plotting

```
app.layout = html.Div([
    html.Div(dcc.Graph(figure=density), style={'display': 'inline-block'},),
    html.Div(dcc.Graph(figure=line), style={'display': 'inline-block'},),
    html.Div(html.P('COMPANY NAME'), style={ ... },),
    html.Div(dcc.Graph(figure=polar), style={'display': 'inline-block'},),
    html.Div(dcc.Graph(figure=scatter), style={'display': 'inline-block'},),
])
```

- Design layout of side through HTML divisions
- Plots displayed inline

- Central title stylized with CSS

Launching Localhost

```
if __name__ == '__main__':
    app.run_server(debug=True)
    print
```

- Runs site if script is called directly through command-line
- Export to localhost [http://127.0.0.1:8050/]
- Execute 'python app.py' in target directory to launch site

Further Reading

Dash in 20 Minutes Tutorial | Dash for Python Documentation | Plotly

Develop Data Visualization Interfaces in Python With Dash – Real Python

If __name__ == "__main__" for Python Developers