**Introduction**: Before choosing a dashboard we must know it's strengths and weaknesses. Here a comparision between Plotly **Dash,Panel,Streamlit and Voilá** is being presented.

| | **Dash** | **Panel** | **Streamlit** | **Voila**' |
|---|---|---|---|---|
| **Primary Objective** | 2 different versions of the Dash framework available on the market today — 'Dash Open Source' and 'Dash Enterprise'.It have the power of plotly.js and React.js | Panel is a fully open source.<br><br>Jupyter server, or normal web server,<br><br>It is also possible to export your application as a typical HTML webpage .<br><br>Panel comes with the power of HoloViz family of tools.<br><br>Maintained by Anaconda developers. | Full open source<br><br>"The fastest way to build and share data apps" | Maintained by Jupyter community of developers. Primary objective is transition from exploratory phase of data analysis to visual representaion on webserver and communication of resulting data insight. |
| **Multipage** | yes | Yes | no | no |
| **Language** | python,R,Julia | Python | python | python,c++,Julia |
| **Simultaneous Users** | Perfect | supports-well | No | dont support good |
| **Big data set** | yes | yes | No | No |
| **File type Support** | .py and .ipynb | .py and .ipynb | .py | .ipynb |
| **Optimal use cases** | Perfect in all case | perfect when working with geo spatial data | when data set is small | when we have to present our python notebook on web |
| **Development — Advantages + Disadvantages** | Each Dash app is composed of 2 parts — the application layout, and application callbacks which permit interactivity https://dash.plotly.com/layout<br><br>Create your own Dash components using JavaScript and React.js | Panel's main strength is its extensive API.<br><br>There are multiple ways of doing the same thing .<br><br>Panel applications are built of 3 main components: Widgets, Panes, and Panels .<br>Panel User Guide | quick and easy development flow<br><br>application will update to reflect these changes in the browser.<br><br>Streamlit prides itself on its simplicity, | |
| **Deployment — Options, Advantages + Disadvantages** | It is possible to deploy your Dash application to AWS, Azure, Google Cloud Platform, and many other cloud providers.<br>Dash offer Dash Deployment Server.<br>ContainDS Dashboard.<br>Can be deployed on Apache Webserver and also on an Nginx webserver. | Panel apps are supported by Jupyter, Bokeh, and Voilà servers,<br><br>Recommend way is to deploy panel app on bokeh server and then deploy it to production environment.<br><br>Panel app can be deployed on bokeh server, heroku, google cloud, Microsoft Azure, and DigitalOcean.<br>MyBinder is another option to deploy panel app | https://discuss.streamlit.io/t/streamlit-deployment-guide-wiki/5099<br><br>Streamlit sharing is another option to deploy the dasboard. | Binder,Heroku,google app engine. |

References:reflist

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Last update: **2022/07/04 11:47**