

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

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

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