



Star 24,429



Introducing Plotly Cloud — The easiest way to publish your Dash apps. [Learn more.](#)



# Dash Python User Guide

Dash is the original low-code framework for rapidly building data apps in Python.

## Quickstart

[Installation](#)[A Minimal Dash App](#)



**Dash in 20 Minutes Tutorial**

## Dash Fundamentals



**Layout**



**Basic Callbacks**



**Interactive Graphing and Crossfiltering**



**Sharing Data Between Callbacks**



**Publishing Your App**

# Dash Callbacks



**Advanced Callbacks**



**Clientside Callbacks**



**Pattern-Matching Callbacks**



**Partial Property Updates**



**Background Callbacks**



**Flexible Callback Signatures**

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# Open Source Component Libraries



**Dash Core Components**



**Dash HTML Components**



**Dash AG Grid**



**Dash DataTable**



**Dash Bio**



**Dash DAQ**

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# Enterprise Libraries



**Dash Design Kit**



**Snapshot Engine**



**Dash Embedded**



**Dash Notes**



**Dash Enterprise Auth**

## Databricks Integration



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[Connecting to a Databricks SQL Warehouse from Dash](#)



[Executing Databricks Jobs using Plotly Dash](#)

## Third-Party Libraries



[Parallel Computing with Dash and Dask](#)



[HoloViews](#)



[Dash Bootstrap \(Community Component\)](#)



[Dash Leaflet \(Community Component\)](#)



**Dash Mantine (Community Component)**



**Dash Vega-Altair (Community Component)**

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## Creating Your Own Components



**React for Python Developers**



**Build Your Own Components**



**All-in-One Components**



**Writing Dash Plugins using Dash Hooks**



## Integrating D3.js into Dash Components



## Dash 3 for Component Developers

# Beyond the Basics



## Dash in Jupyter Environments



## Performance



## Live Updates



## Adding CSS & JS and Overriding the Page-Load Template





**Multi-Page Apps and URL Support**



**Persisting User Preferences & Control Values**

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## Production Capabilities



**Dash Enterprise Guide**



**Add Authentication to Your Dash App**



**Embed Your Dash App in Other Websites**



**Job Queue**



**Dash Enterprise App Workspaces**



**Jupyter Notebooks in Workspaces**

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## Getting Help



**FAQs**



**The Dash Community Forum**



**Project Maintenance**



**Dash R, Julia, Matlab, and F# docs have been retired**



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