Documentation

search

Search

• rocket launch

Get started

- <u>Installation</u> add
- Fundamentals add
- First steps add
- code

<u>Develop</u>

- Concepts add
- API reference

remove

- PAGE ELEMENTS
- Write and magic

add

- <u>Text elements</u> add
- Data elements add
- Chart elements

remove

- SIMPLE
- st.area chart
- st.bar chart
- st.line chart
- st.map
- st.scatter chart
- ADVANCED
- st.altair chart
- st.bokeh chart
- st.graphviz chart
- st.plotly chart
- st.pydeck chart
- st.pyplot
- st.vega lite chart
- Input widgets

add

Media elements

add

<u>Layouts and containers</u>

add

- Chat elements add
- Status elements add
- <u>Third-party components open in new</u>
- APPLICATION LOGIC
- Navigation and pages add
- Execution flow add
- Caching and state
- Connections and secrets add
- Custom components add
- <u>Utilities</u>add
- Configuration add
- TOOLS
- App testing add
- Command line add
- Tutorials add
- Quick reference add
- web asset

<u>Deploy</u>

- Concepts add
- <u>Streamlit Community Cloud</u> *add*
- Snowflake
- Other platforms
- <u>school</u>

Knowledge base

- o FAQ
- Installing dependencies
- Deployment issues
- Home/
- Develop/
- API reference/
- Chart elements/
- <u>st.pyplot</u>

st.pyplot

Streamlit Version Version 1.41.0

Display a matplotlib.pyplot figure.

Important

You must install matplotlib to use this command.

Function signature[source]

st.pyplot(fig=None, clear figure=None, use container width=True, **kwargs)

Parameters

The Matplotlib Figure object to render. See https://matplotlib.org/stable/gallery/index.html for examples.

fig (Matplotlib Figure)

Note

When this argument isn't specified, this function will render the global Matplotlib figure object. However, this feature is deprecated and will be removed in a later version.

clear_figure (bool)

If True, the figure will be cleared after being rendered. If False, the figure will not be cleared after being rendered. If left unspecified, we pick a default based on the value of fig.

- If fig is set, defaults to False.
- If fig is not set, defaults to True. This simulates Jupyter's approach to matplotlib rendering.

(bool)

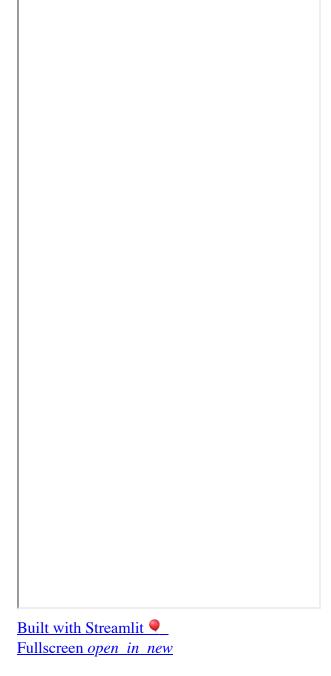
Whether to override the figure's native width with the width of the parent container. If use_container_width use container width is True (default), Streamlit sets the width of the figure to match the width of the parent container. If use container width is False, Streamlit sets the width of the chart to fit its contents according to the plotting library, up to the width of the parent container.

**kwargs (any)

Arguments to pass to Matplotlib's savefig function.

Example

```
import streamlit as st
import matplotlib.pyplot as plt
import numpy as np
arr = np.random.normal(1, 1, size=100)
fig, ax = plt.subplots()
ax.hist(arr, bins=20)
st.pyplot(fig)
```



Matplotlib supports several types of "backends". If you're getting an error using Matplotlib with Streamlit, try setting your backend to "TkAgg":

```
echo "backend: TkAgg" >> ~/.matplotlib/matplotlibrc
```

For more information, see https://matplotlib.org/faq/usage_faq.html. priority_high

Warning

Matplotlib <u>doesn't work well with threads</u>. So if you're using Matplotlib you should wrap your code with locks as shown in the snippet below. This Matplotlib bug is more prominent when you deploy and share your app apps since you're more likely to get concurrent users then.

Still have questions?

Our **forums** are full of helpful information and Streamlit experts.

HomeContact UsCommunity



© 2025 Snowflake Inc. Cookie policy

forum Ask Al