Documentation

search

Search

• rocket launch

Get started

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

<u>Develop</u>

- Concepts add
- API reference

remove

- PAGE ELEMENTS
- Write and magic

add

- <u>Text elements</u> add
- <u>Data elements</u>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
- Command line add
- <u>Tutorials</u> add
- Quick reference add
- web asset

<u>Deploy</u>

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

Knowledge base

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

st.bar_chart

Streamlit Version Version 1.41.0	
Display a bar chart.	
3	air_chart. The main difference is this command uses the data's own column and indices As a result this is easier to use for many "just plot this" scenarios, while being less

If st.bar chart does not guess the data specification correctly, try specifying your desired chart using st.altair chart. Function signature source

st.bar_chart(data=None, *, x=None, y=None, x_label=None, y_label=None, color=None, horizontal=False, stack=None, width=None, height=None, use_container_width=True)

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data (Anything supported by Data to be plotted. st.dataframe)

x (str or None)

Column name or key associated to the x-axis data. If x is None (default), Streamlit uses the data index for the x-axis values.

y (str, Sequence of str, or None)

Column name(s) or key(s) associated to the y-axis data. If this is None (default), Streamlit draws the data of all remaining columns as data series. If this is a sequence of strings, Streamlit draws several series on the same chart by melting your wide-format table into a long-format table behind the scenes.

x_label (str or None)

The label for the x-axis. If this is None (default), Streamlit will use the column name specified in x if available, or else no label will be displayed.

y_label (str or None)

The label for the y-axis. If this is None (default), Streamlit will use the column name(s) specified in y if available, or else no label will be displayed.

color (str, tuple, Sequence of The color to use for different series in this chart. str, Sequence of tuple, or None)

For a bar chart with just one series, this can be:

- None, to use the default color.
- A hex string like "#ffaa00" or "#ffaa0088".
- An RGB or RGBA tuple with the red, green, blue, and alpha components specified as ints from 0 to 255 or floats from 0.0 to 1.0.

For a bar chart with multiple series, where the dataframe is in long format (that is, y is None or just one column), this can be:

- None, to use the default colors.
- The name of a column in the dataset. Data points will be grouped into series of the same color based on the value of this column. In addition, if the values in this column match one of the color formats above (hex string or color tuple), then that color will be used.

For example: if the dataset has 1000 rows, but this column only contains the values "adult", "child", and "baby", then those 1000 datapoints will be grouped into three

Function signature[source]

st.bar_chart(data=None, *, x=None, y=None, x_label=None, y_label=None, color=None, horizontal=False, stack=None, width=None, height=None, use_container_width=True)

series whose colors will be automatically selected from the default palette.

But, if for the same 1000-row dataset, this column contained the values "#ffaa00", "#f0f", "#0000ff", then then those 1000 datapoints would still be grouped into 3 series, but their colors would be "#ffaa00", "#f0f", "#0000ff" this time around.

For a bar chart with multiple series, where the dataframe is in wide format (that is, y is a Sequence of columns), this can be:

- None, to use the default colors.
- A list of string colors or color tuples to be used for each of the series in the chart. This list should have the same length as the number of y values (e.g. color=["#fd0", "#f0f", "#04f"] for three lines).

horizontal (bool)

Whether to make the bars horizontal. If this is False (default), the bars display vertically. If this is True, Streamlit swaps the x-axis and y-axis and the bars display horizontally.

Whether to stack the bars. If this is None (default), Streamlit uses Vega's default. Other values can be as follows:

stack (bool, "normalize", "center", "layered", or None)

- True: The bars form a non-overlapping, additive stack within the chart.
- False: The bars display side by side.
- "layered": The bars overlap each other without stacking.
- "normalize": The bars are stacked and the total height is normalized to 100% of the height of the chart.
- "center": The bars are stacked and shifted to center the total height around an axis.

width (int or None)

Desired width of the chart expressed in pixels. If width is None (default), Streamlit sets the width of the chart to fit its contents according to the plotting library, up to the width of the parent container. If width is greater than the width of the parent container, Streamlit sets the chart width to match the width of the parent container.

To use width, you must set use_container_width=False.

height (int or None)

Desired height of the chart expressed in pixels. If height is None (default), Streamlit sets the height of the chart to fit its contents according to the plotting library.

use_container_width (bool)

Whether to override width with the width of the parent container. If use_container_width is True (default), Streamlit sets the width of the chart to match the width of the parent container. If use_container_width is False, Streamlit sets the chart's width according to width.

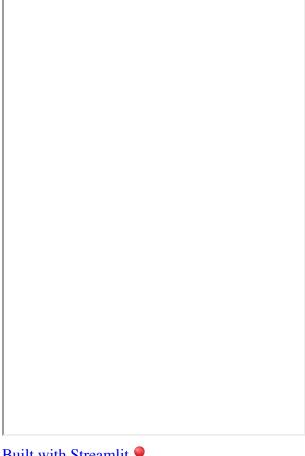
Examples

```
import streamlit as st
import pandas as pd
import numpy as np

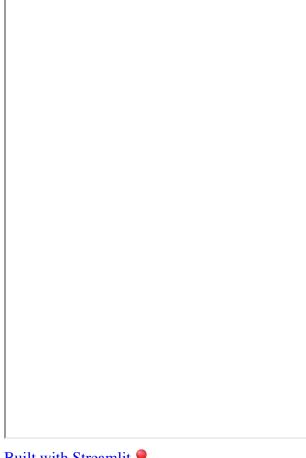
chart_data = pd.DataFrame(np.random.randn(20, 3), columns=["a", "b", "c"])
```



You can also choose different columns to use for x and y, as well as set the color dynamically based on a 3rd column (assuming your dataframe is in long format):



If your dataframe is in wide format, you can group multiple columns under the y argument to show multiple series with different colors:

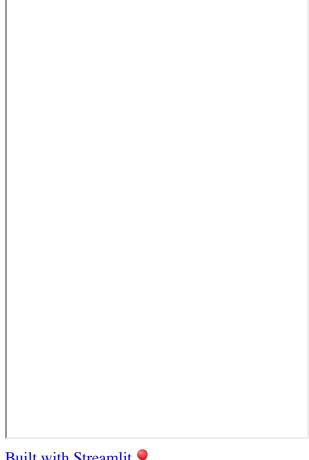


You can rotate your bar charts to display horizontally.

```
import streamlit as st
from vega_datasets import data

source = data.barley()

st.bar_chart(source, x="variety", y="yield", color="site", horizontal=True)
```

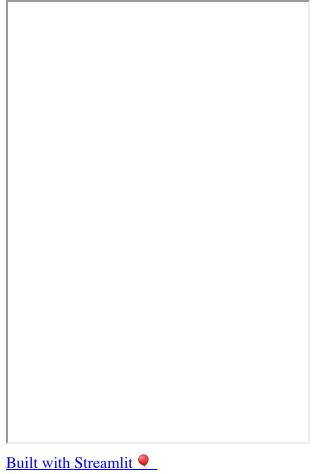


You can unstack your bar charts.

```
import streamlit as st
from vega_datasets import data

source = data.barley()

st.bar_chart(source, x="year", y="yield", color="site", stack=False)
```



Fullscreen open in new

element.add_rows



Streamlit Version Version 1.41.0 ~

Concatenate a dataframe to the bottom of the current one.

Function signature source

element.add_rows(data=None, **kwargs)

Parameters

data (pandas.DataFrame, pandas.Styler, pyarrow.Table, numpy.ndarray, pyspark.sql.DataFrame, snowflake.snowpark.dataframe.DataFrame, Iterable, dict, or None)

Table to concat. Optional.

**kwargs (pandas.DataFrame, numpy.ndarray, Iterable, dict, or None)

The named dataset to concat. Optional. You can only pass in 1 dataset (including the one in the data parameter).

Example

import streamlit as st import pandas as pd import numpy as np

```
df1 = pd.DataFrame(
         np.random.randn(50, 20), columns=("col %d" % i for i in range(20))
     my table = st.table(df1)
     df2 = pd.DataFrame(
         np.random.randn(50, 20), columns=("col %d" % i for i in range(20))
     my table.add rows(df2)
     # Now the table shown in the Streamlit app contains the data for
     # df1 followed by the data for df2.
     You can do the same thing with plots. For example, if you want to add more data to a line chart:
     # Assuming df1 and df2 from the example above still exist...
     my chart = st.line chart(df1)
     my chart.add rows(df2)
     # Now the chart shown in the Streamlit app contains the data for
     # df1 followed by the data for df2.
     And for plots whose datasets are named, you can pass the data with a keyword argument where the key is the
     name:
     my chart = st.vega lite chart(
         {
              "mark": "line",
              "encoding": {"x": "a", "y": "b"},
              "datasets": {
                  "some_fancy_name": df1, # <-- named dataset
              "data": {"name": "some fancy name"},
         }
     )
     my_chart.add_rows(some_fancy_name=df2) # <-- name used as keyword</pre>
←Previous: st.area chartNext: st.line chart→
```

Still have questions?

Our <u>forums</u> are full of helpful information and Streamlit experts.

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