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st.write



Streamlit Version ▼

Write arguments to the app.

This is the Swiss Army knife of Streamlit commands: it does different things depending on what you throw at it. Unlike other Streamlit commands, `write()` has some unique properties:

1. You can pass in multiple arguments, all of which will be written.
2. Its behavior depends on the input types as follows.
3. It returns `None`, so its "slot" in the App cannot be reused.

```
st.write(*args, unsafe_allow_html=False, **kwargs)
```

Parameters

One or many objects to print to the App.

Arguments are handled as follows:

- `write(string)` : Prints the formatted Markdown string, with support for LaTeX expression, emoji shortcodes, and colored text. See docs for `st.markdown` for more.
- `write(dataframe)` : Displays any dataframe-like object in an interactive table.
- `write(dict)` : Displays dict-like in an interactive viewer.
- `write(list)` : Displays list-like in an interactive viewer.
- `write(error)` : Prints an exception specially.
- `write(func)` : Displays information about a function.
- `write(module)` : Displays information about a module.
- `write(class)` : Displays information about a class.
- `write(DeltaGenerator)` : Displays information about a DeltaGenerator.
- `write(mpl_fig)` : Displays a Matplotlib figure.
- `write(generator)` : Streams the output of a generator.
- `write(openai.Stream)` : Streams the output of an OpenAI stream.
- `write(altair)` : Displays an Altair chart.
- `write(PIL.Image)` : Displays an image.
- `write(keras)` : Displays a Keras model.
- `write(graphviz)` : Displays a Graphviz graph.
- `write(plotly_fig)` : Displays a Plotly figure.
- `write(bokeh_fig)` : Displays a Bokeh figure.
- `write(sympy_expr)` : Prints SymPy expression using LaTeX.
- `write(htmlable)` : Prints `_repr_html_()` for the object if available.
- `write(db_cursor)` : Displays DB API 2.0 cursor results in a table.
- `write(obj)` : Prints `str(obj)` if otherwise unknown.

`*args` (any)

Whether to render HTML within `*args`. This only applies to strings or objects falling back on `_repr_html_()`. If this is `False` (default), any HTML tags found in `body` will be escaped and therefore treated as raw text. If this is `True`, any HTML expressions within `body` will be rendered.

`unsafe_allow_html`
(bool)

Adding custom HTML to your app impacts safety, styling, and maintainability.

Note

If you only want to insert HTML or CSS without Markdown text, we recommend using `st.html` instead.

delete

`**kwargs` (any)

`**kwargs` is deprecated and will be removed in a later version. Use other, more specific Streamlit commands to pass additional keyword arguments.

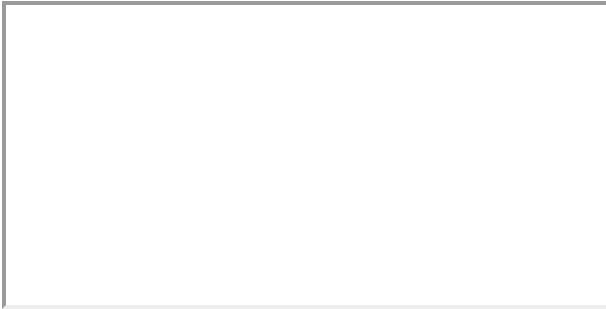
Keyword arguments. Not used.


Example

Its basic use case is to draw Markdown-formatted text, whenever the input is a string:

```
import streamlit as st

st.write("Hello, *World!* :sunglasses: ")
```

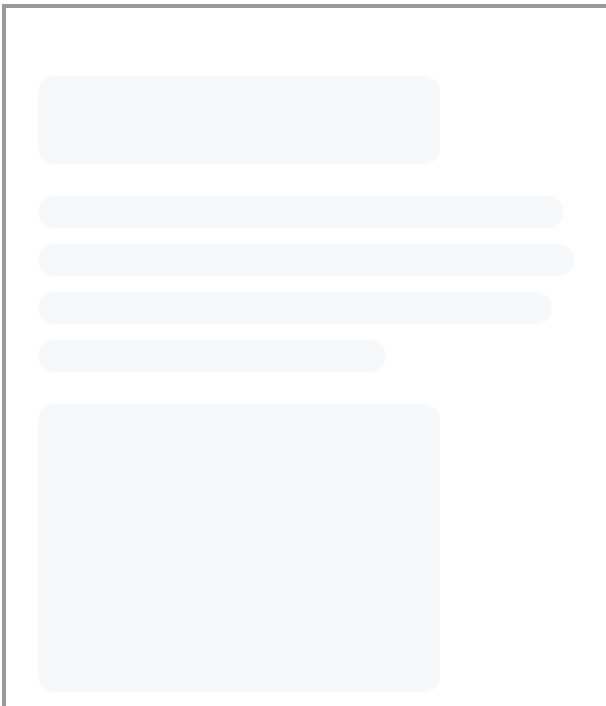



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As mentioned earlier, `st.write()` also accepts other data formats, such as numbers, data frames, styled data frames, and assorted objects:

```
import streamlit as st
import pandas as pd

st.write(1234)
st.write(
    pd.DataFrame(
        {
            "first column": [1, 2, 3, 4],
            "second column": [10, 20, 30, 40],
        }
    )
)
```

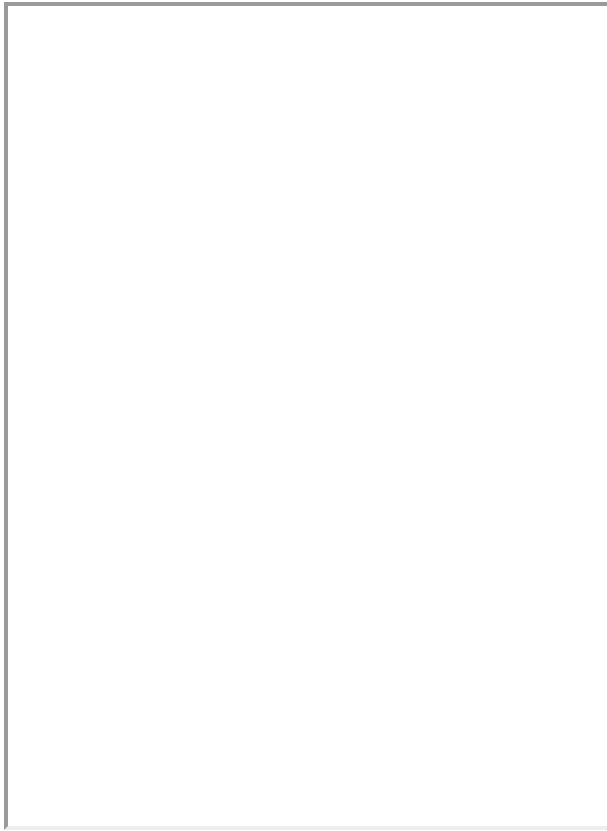


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Finally, you can pass in multiple arguments to do things like:

```
import streamlit as st
```

```
st.write("1 + 1 = ", 2)
st.write("Below is a DataFrame:", data_frame, "Above is a dataframe.")
```



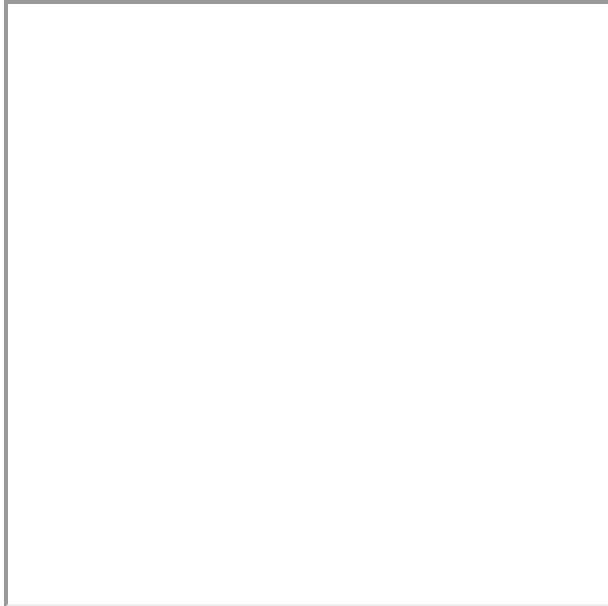
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Oh, one more thing: `st.write` accepts chart objects too! For example:

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

df = pd.DataFrame(np.random.randn(200, 3), columns=["a", "b", "c"])
c = (
    alt.Chart(df)
    .mark_circle()
    .encode(x="a", y="b", size="c", color="c", tooltip=["a", "b", "c"])
)

st.write(c)
```



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Featured video

Learn what the [st.write](#) and [magic](#) commands are and how to use them.



[←Previous: Write and magic](#)[Next: st.write stream→](#)
forum

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