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## LAYOUTS AND CONTAINERS

## COMPLEX LAYOUTS

Streamlit provides several options for controlling how different elements are laid out on the screen.

 [screenshot](#)

## **Columns**

[Insert containers laid out as side-by-side columns.](#)

```
col1, col2 = st.columns(2) col1.write("this is column 1") col2.write("this is column 2").
```

 [screenshot](#)

## **Container**

[Insert a multi-element container.](#)

```
c = st.container() st.write("This will show last") c.write("This will show first") c.write("This will show second").
```

 [screenshot](#)

## **Modal dialog**

[Insert a modal dialog that can rerun independently from the rest of the script.](#)

```
@st.dialog("Sign up") def email_form(): name = st.text_input("Name") email = st.text_input("Email").
```

 [screenshot](#)

## **Empty**

[Insert a single-element container.](#)

```
c = st.empty() st.write("This will show last") c.write("This will be replaced") c.write("This will show first").
```

 [screenshot](#)

## **Expander**

[Insert a multi-element container that can be expanded/collapsed.](#)

```
with st.expander("Open to see more"): st.write("This is more content").
```

 [screenshot](#)

## **Popover**

[Insert a multi-element popover container that can be opened/closed.](#)

```
with st.popover("Settings"): st.checkbox("Show completed").
```

 [screenshot](#)

## **Sidebar**

[Display items in a sidebar.](#)

```
st.sidebar.write("This lives in the sidebar") st.sidebar.button("Click me!").
```

 [screenshot](#)

## **Tabs**

[Insert containers separated into tabs.](#)

```
tab1, tab2 = st.tabs(["Tab 1", "Tab2"]) tab1.write("this is tab 1") tab2.write("this is tab 2")
```

Third-party components



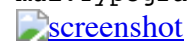
These are featured components created by our lovely community. For more examples and inspiration, check out our [Components Gallery](#) and [Streamlit Extras](#)!



## [Streamlit Elements](#)

Create a draggable and resizable dashboard in Streamlit. Created by [@okls](#).

```
from streamlit_elements import
elements, mui, html with
elements("new_element"):
mui.Typography("Hello world")
```



## [Pydantic](#)

[Auto-generate Streamlit UI from Pydantic Models and Dataclasses](#). Created by [@lukasmasuch](#).

```
import streamlit_pydantic as sp
sp.pydantic_form(key="my_form",
model=ExampleModel)
```



## [Streamlit Pages](#)

[An experimental version of Streamlit Multi-Page Apps](#). Created by [@blackary](#).

```
from st_pages import Page,
show_pages, add_page_title
show_pages([
Page("streamlit_app.py", "Home",
"🏠"),
Page("other_pages/page2.py", "Page
2", ":books:"), ])
```

[←Previous: Media elements](#)[Next: st.columns→](#)  
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## Still have questions?

Our [forums](#) are full of helpful information and Streamlit experts.

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