

# Streamlit Cheatsheet

---

## Basics

### Importing convention

```
import streamlit as st
```

### Running in command line

```
streamlit run code.py
```

## Elements Displayed on App

### Text

```
st.write("Most objects")
```

*Magic commands* When streamlit sees a variable or literal value on its own line, it automatically writes it to the app using `st.write()`

```
"Hello **world**!"  
my_variable
```

### Other text options

```
st.text("Fixed width text")  
st.markdown("_Markdown_") # see *  
st.latex(r"" e^{\i\pi} + 1 = 0 """)  
st.title("My title")  
st.header("My header")  
st.subheader("My sub")
```

## Interactive Widgets

```
st.checkbox(label)
st.toggle(label)
st.radio(label, options)
st.selectbox(label, options)
st.multiselect(label, options)
st.slider(label, min_value, max_value, value)
st.text_input(label)
st.number_input(label, min_value, max_value, value)
```

*Typically, interactive elements are assigned to a variable for later use in app*

```
choice = st.radio('Choose an option', ["yes","no"])
if choice == "yes":
    print("You chose yes")
```

## Charts

*From Plotly*

```
st.plotly_chart(fig)
```

*From Matplotlib and Seaborn*

```
st.pyplot(fig)
```

*Other Graphics Libraries*

```
st.altair_chart(chart)
st.bokeh_chart(fig)
st.graphviz_chart(fig)
st.pydeck_chart(chart)
```

## Data

```
st.dataframe(df)
```

## Containers

## Sidebar

```
with st.sidebar:  
    # sidebar contents
```

## Columns

```
col1, col2 = st.columns(2)  
  
with col1:  
    # column 1 contents  
  
with col2:  
    # column 2 contents
```

## Tabs

```
tab1, tab2 = st.tabs(["Tab 1", "Tab 2"])  
  
with tab1:  
    # tab 1 contents  
  
with tab2:  
    # tab 2 contents
```

## Expandable containers

```
expand = st.expander("Label")  
with expand:  
    # expander contents
```