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st.selectbox



Streamlit Version ▼

Display a select widget.

Function signature[\[source\]](#)

```
st.selectbox(label, options, index=0, format_func=special_internal_function, key=None, help=None,
on_change=None, args=None, kwargs=None, *, placeholder="Choose an option", disabled=False,
label_visibility="visible")
```

Parameters

A short label explaining to the user what this select widget is for. The label can optionally contain GitHub-flavored Markdown of the following types: Bold, Italics, Strikethroughs, Inline Code, Links, and Images. Images display like icons, with a max height equal to the font height.

Unsupported Markdown elements are unwrapped so only their children (text contents) render. Display unsupported elements as literal characters by backslash-escaping them. E.g., "1\\. Not an ordered list".

See the body parameter of [st.markdown](#) for additional, supported Markdown directives.

For accessibility reasons, you should never set an empty label, but you can hide it with `label_visibility` if needed. In the future, we may disallow empty labels by raising an exception.

Labels for the select options in an `Iterable`. This can be a `list`, `set`, or anything supported by `st.dataframe`. If `options` is dataframe-like, the first column will be used. Each label will be cast to `str` internally by default.

Returns

(any) The selected option or `None` if no option is selected.

Function signature[\[source\]](#)

```
st.selectbox(label, options, index=0, format_func=special_internal_function, key=None, help=None, on_change=None, args=None, kwargs=None, *, placeholder="Choose an option", disabled=False, label_visibility="visible")
```

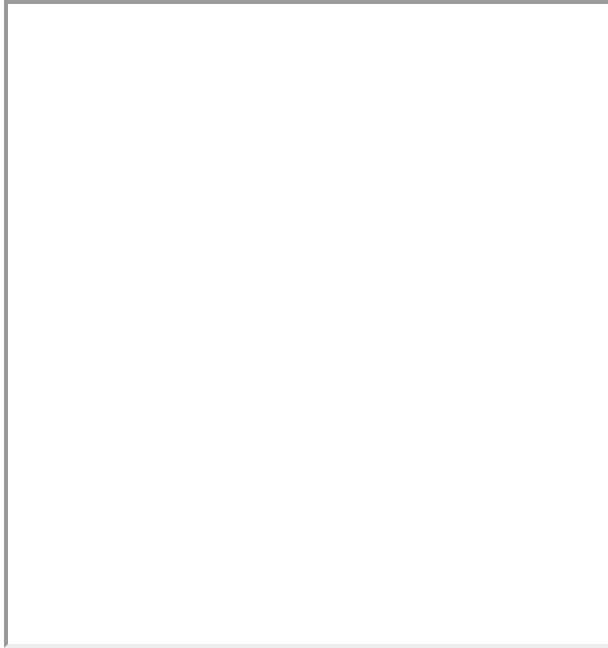
| | |
|--|--|
| index (int) | The index of the preselected option on first render. If <code>None</code> , will initialize empty and return <code>None</code> until the user selects an option. Defaults to 0 (the first option). |
| format_func (function) | Function to modify the display of the options. It receives the raw option as an argument and should output the label to be shown for that option. This has no impact on the return value of the command. |
| key (str or int) | An optional string or integer to use as the unique key for the widget. If this is omitted, a key will be generated for the widget based on its content. No two widgets may have the same key. |
| help (str) | An optional tooltip that gets displayed next to the widget label. Streamlit only displays the tooltip when <code>label_visibility="visible"</code> . |
| on_change (callable) | An optional callback invoked when this selectbox's value changes. |
| args (tuple) | An optional tuple of args to pass to the callback. |
| kwargs (dict) | An optional dict of kwargs to pass to the callback. |
| placeholder (str) | A string to display when no options are selected. Defaults to "Choose an option". |
| disabled (bool) | An optional boolean that disables the selectbox if set to <code>True</code> . The default is <code>False</code> . |
| label_visibility ("visible", "hidden", or "collapsed") | The visibility of the label. The default is <code>"visible"</code> . If this is <code>"hidden"</code> , Streamlit displays an empty spacer instead of the label, which can help keep the widget aligned with other widgets. If this is <code>"collapsed"</code> , Streamlit displays no label or spacer. |
| Returns | |
| (any) | The selected option or <code>None</code> if no option is selected. |

Example

```
import streamlit as st

option = st.selectbox(
    "How would you like to be contacted?",
    ("Email", "Home phone", "Mobile phone"),
)

st.write("You selected:", option)
```



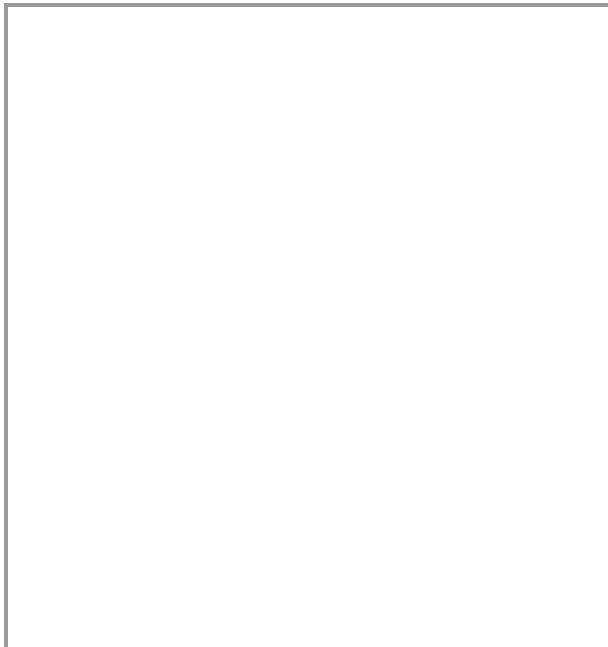
[Built with Streamlit !\[\]\(8af806fb1314382d09bc5ec5b767526c_img.jpg\)](#)
[Fullscreen open in new](#)

To initialize an empty selectbox, use `None` as the index value:

```
import streamlit as st

option = st.selectbox(
    "How would you like to be contacted?",
    ("Email", "Home phone", "Mobile phone"),
    index=None,
    placeholder="Select contact method...",
)

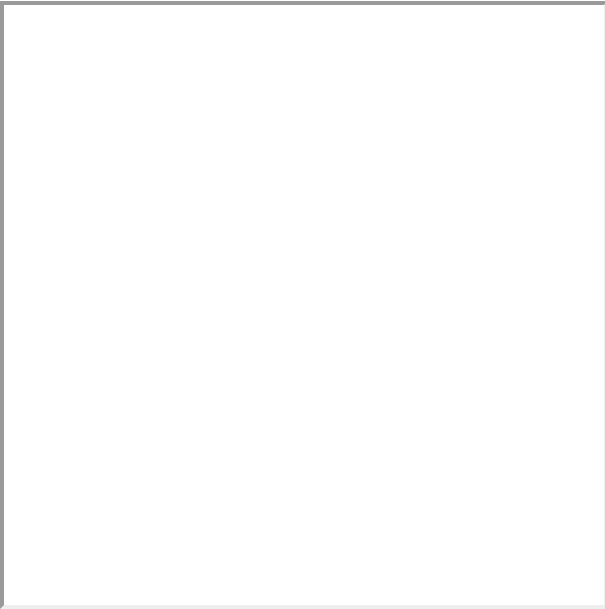
st.write("You selected:", option)
```




[Built with Streamlit !\[\]\(74d4806277d7e73349d8e8c0897931e9_img.jpg\)](#)
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Select widgets can customize how to hide their labels with the `label_visibility` parameter. If "hidden", the label doesn't show but there is still empty space for it above the widget (equivalent to `label=""`). If "collapsed", both the label and the space are removed. Default is "visible". Select widgets can also be disabled with the `disabled` parameter:

```
import streamlit as st # Store the initial value of widgets in session state if "visibility" not in
st.session_state: st.session_state.visibility = "visible" st.session_state.disabled = False coll, col2
= st.columns(2) with coll: st.checkbox("Disable selectbox widget", key="disabled") st.radio( "Set
selectbox label visibility 🖱️ ", key="visibility", options=["visible", "hidden", "collapsed"], ) with
col2: option = st.selectbox( "How would you like to be contacted?", ("Email", "Home phone", "Mobile
phone"), label_visibility=st.session_state.visibility, disabled=st.session_state.disabled, )
```



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