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st.multiselect



Streamlit Version ▼

Display a multiselect widget.

The multiselect widget starts as empty.

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

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

Parameters

| | |
|--------------------|--|
| | <p>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.</p> <p>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".</p> <p>See the <code>body</code> parameter of st.markdown for additional, supported Markdown directives.</p> <p>For accessibility reasons, you should never set an empty label, but you can hide it with <code>label_visibility</code> if needed. In the future, we may disallow empty labels by raising an exception.</p> |
| label (str) | |
| options (Iterable) | <p>Labels for the select options in an <code>Iterable</code>. This can be a <code>list</code>, <code>set</code>, or anything supported by <code>st.dataframe</code>. If <code>options</code> is dataframe-like, the first column will be used. Each label will be cast</p> |
| Returns | |
| (list) | <p>A list with the selected options</p> |

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

to `str` internally by default.

| | |
|--|--|
| default (Iterable of V, V, or None) | List of default values. Can also be a single value. |
| 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 widget'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. |
| max_selections (int) | The max selections that can be selected at a time. |
| placeholder (str) | A string to display when no options are selected. Defaults to "Choose an option." |
| disabled (bool) | An optional boolean that disables the multiselect widget 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

(list) A list with the selected options

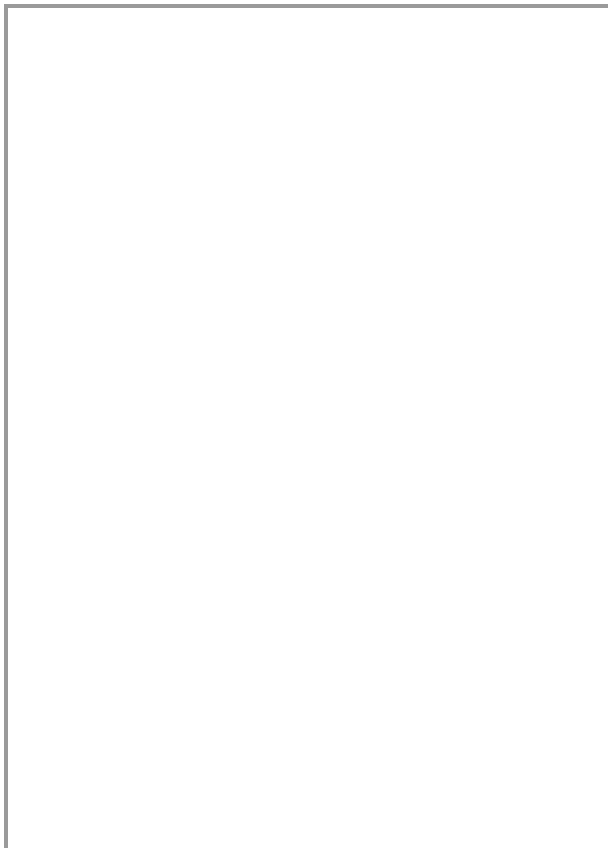
Example

```
import streamlit as st

options = st.multiselect(
    "What are your favorite colors",
```

```
["Green", "Yellow", "Red", "Blue"],
["Yellow", "Red"],
)

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



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