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st.number_input



Streamlit Version ▼

Display a numeric input widget.

Note

Integer values exceeding +/- (1<<53) - 1 cannot be accurately stored or returned by the widget due to serialization constraints between the Python server and JavaScript client. You must handle such numbers as floats, leading to a loss in precision.

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

```
st.number_input(label, min_value=None, max_value=None, value="min", step=None, format=None, key=None,
                help=None, on_change=None, args=None, kwargs=None, *, placeholder=None, disabled=False,
                label_visibility="visible")
```

Parameters

label (str)	<p>A short label explaining to the user what this input 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 body 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</p>
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Returns

(int or float or None)	The current value of the numeric input widget or <code>None</code> if the widget is empty. The return type will match the data type of the value parameter.
------------------------	---

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

```
st.number_input(label, min_value=None, max_value=None, value="min", step=None, format=None, key=None,
                help=None, on_change=None, args=None, kwargs=None, *, placeholder=None, disabled=False,
                label_visibility="visible")
```

exception.

min_value (int, float, or None)	The minimum permitted value. If None, there will be no minimum.
max_value (int, float, or None)	The maximum permitted value. If None, there will be no maximum.
value (int, float, "min" or None)	The value of this widget when it first renders. If None, will initialize empty and return None until the user provides input. If "min" (default), will initialize with min_value, or 0.0 if min_value is None.
step (int, float, or None)	The stepping interval. Defaults to 1 if the value is an int, 0.01 otherwise. If the value is not specified, the format parameter will be used.
format (str or None)	<p>A printf-style format string controlling how the interface should display numbers. The output must be purely numeric. This does not impact the return value of the widget. Formatting is handled by sprintf.js.</p> <p>For example, <code>format="%0.1f"</code> adjusts the displayed decimal precision to only show one digit after the decimal.</p>
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 number_input'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 or None)	An optional string displayed when the number input is empty. If None, no placeholder is displayed.
Returns	
(int or float or None)	The current value of the numeric input widget or None if the widget is empty. The return type will match the data type of the value parameter.

```
st.number_input(label, min_value=None, max_value=None, value="min", step=None, format=None, key=None,
                help=None, on_change=None, args=None, kwargs=None, *, placeholder=None, disabled=False,
                label_visibility="visible")
```


disabled (bool)	An optional boolean that disables the number input 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 "visible". If this is "hidden", Streamlit displays an empty spacer instead of the label, which can help keep the widget aligned with other widgets. If this is "collapsed", Streamlit displays no label or spacer.
Returns	
(int or float or None)	The current value of the numeric input widget or <code>None</code> if the widget is empty. The return type will match the data type of the value parameter.

Example

```
import streamlit as st

number = st.number_input("Insert a number")
st.write("The current number is ", number)
```

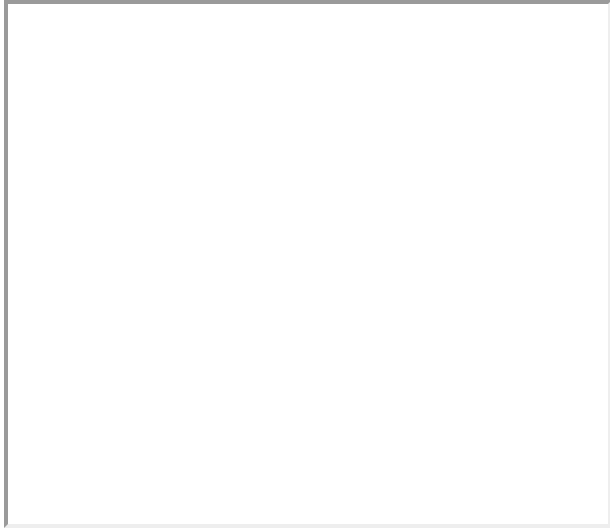


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To initialize an empty number input, use `None` as the value:

```
import streamlit as st

number = st.number_input(
    "Insert a number", value=None, placeholder="Type a number..."
)
st.write("The current number is ", number)
```



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