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- [st.toast](#)

Display a short message, known as a notification "toast".

The toast appears in the app's bottom-right corner and disappears after four seconds.

## Warning

`st.toast` is not compatible with Streamlit's [caching](#) and cannot be called within a cached function.

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

**`st.toast(body, *, icon=None)`**

## Parameters

**body (str)** The string to display as GitHub-flavored Markdown. Syntax information can be found at: <https://github.github.com/gfm>.

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

An optional emoji or icon to display next to the alert. If `icon` is `None` (default), no icon is displayed. If `icon` is a string, the following options are valid:

- icon (str, None)**
- A single-character emoji. For example, you can set `icon="🍕"` or `icon="🔥"`. Emoji short codes are not supported.
  - An icon from the Material Symbols library (rounded style) in the format `":material/icon_name:"` where `"icon_name"` is the name of the icon in snake case.

For example, `icon=":material/thumb_up:"` will display the Thumb Up icon. Find additional icons in the [Material Symbols](#) font library.

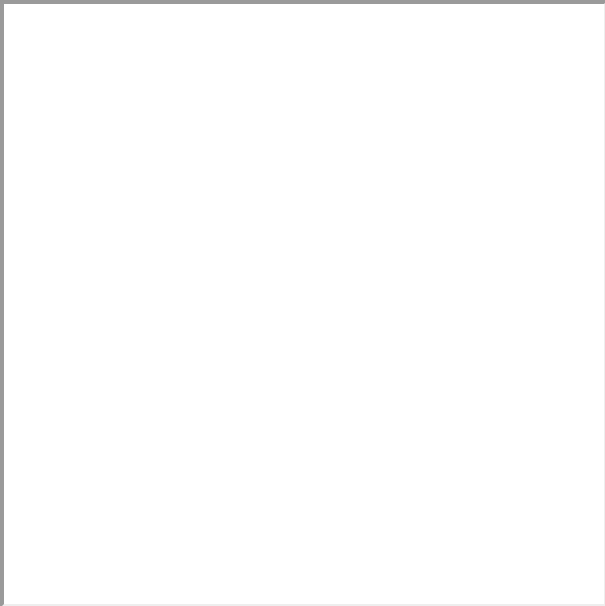
## Example


```
import streamlit as st

st.toast('Your edited image was saved!', icon='😍')
```

When multiple toasts are generated, they will stack. Hovering over a toast will stop it from disappearing. When hovering ends, the toast will disappear after four more seconds.

```
import streamlit as st
import time
if st.button('Three cheers'):
    st.toast('Hip!')
    time.sleep(.5)
st.toast('Hip!')
time.sleep(.5)
st.toast('Hooray!', icon='🎉')
```



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Toast messages can also be updated. Assign `st.toast(my_message)` to a variable and use the `.toast()` method to update it. Note: if a toast has already disappeared or been dismissed, the update will not be seen.

```
import streamlit as st
import time

def cook_breakfast():
    msg = st.toast('Gathering ingredients...')
    time.sleep(1)
    msg.toast('Cooking...')
    time.sleep(1)
    msg.toast('Ready!', icon = "🍳")

if st.button('Cook breakfast'):
    cook_breakfast()
```



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