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Display progress and status



Streamlit provides a few methods that allow you to add animation to your apps. These animations include progress bars, status messages (like warnings), and celebratory balloons.

Animated status elements



Progress bar

Display a progress bar.

```
for i in range(101): st.progress(i) do_something_slow().
```



Spinner

Temporarily displays a message while executing a block of code.

```
with st.spinner("Please wait..."): do_something_slow().
```



Status container

Display output of long-running tasks in a container.

```
with st.status('Running'): do_something_slow().
```



Toast

Briefly displays a toast message in the bottom-right corner.

```
st.toast('Butter!', icon='🍞').
```



Balloons

Display celebratory balloons!

```
st.balloons().
```



Snowflakes

Display celebratory snowflakes!

```
st.snow().
```

Simple callout messages



 [screenshot](#)

Success box

[Display a success message.](#)


```
st.success("Match found!").
```

 [screenshot](#)

Info box

[Display an informational message.](#)

```
st.info("Dataset is updated every day at midnight.").
```

 [screenshot](#)

Warning box

[Display warning message.](#)

```
st.warning("Unable to fetch image. Skipping...").
```

 [screenshot](#)

Error box

[Display error message.](#)

```
st.error("We encountered an error").
```

 [screenshot](#)

Exception output

[Display an exception.](#)

```
e = RuntimeError("This is an exception of type RuntimeError") st.exception(e).
```

Third-party components




These are featured components created by our lovely community. For more examples and inspiration, check out our [Components Gallery](#) and [Streamlit Extras](#)!

 [screenshot](#)

Stqdm

[The simplest way to handle a progress bar in streamlit app. Created by @Wirg.](#)

```
from tqdm import tqdm for _ in  
tqdm(range(50)): sleep(0.5)
```

 [screenshot](#)

Custom notification box

[A custom notification box with the ability to close it out.](#) Created by [@Socvest](#).

```
from
streamlit_custom_notification_box
import custom_notification_box
styles = {'material-icons':
{'color': 'red'}, 'text-icon-link-
close-container': {'box-shadow':
'#3896de 0px 4px'}, 'notification-
text': {'': ''}, 'close-button':
{'': ''}, 'link':{'': ''}}
custom_notification_box(icon='info',
textDisplay='We are almost done
with your registration...',
externalLink='more info', url='#',
styles=styles, key="foo")
```



[Streamlit Extras](#)

[A library with useful Streamlit extras.](#)
Created by [@arnaudmiribel](#).

```
from streamlit_extras.let_it_rain
import rain rain(emoji="💧 ",
font_size=54, falling_speed=5,
animation_length="infinite",)
←Previous: Chat elementsNext: st.success→
forum
```

Still have questions?

Our [forums](#) are full of helpful information and Streamlit experts.

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