gradio

≡

New to Gradio? Start here: **Getting Started**   See the **Release History**

← Examples   make_waveform →

Progress

```
gradio.Progress(···)
```

Description

The Progress class provides a custom progress tracker that is used in a function signature. To attach a Progress tracker to a function, simply add a parameter right after the input parameters that has a default value set to a `gradio.Progress()` instance. The Progress tracker can then be updated in the function by calling the Progress object or using the `tqdm` method on an Iterable. The Progress tracker is currently only available with `queue()`.

Example Usage

```python
import gradio as gr
import time
def my_function(x, progress=gr.Progress()):
    progress(0, desc="Starting...")
    time.sleep(1)
    for i in progress.tqdm(range(100)):
        time.sleep(0.1)
    return x
gr.Interface(my_function, gr.Textbox(), gr.Textbox()).queue().launch()
```

Initialization

Parameter	Description
`track_tqdm` *bool* **default: False**	If True, the Progress object will track any tqdm.tqdm iterations with the tqdm library in the function.

progress

```python
import gradio as gr
import random
import time
import tqdm
from datasets import load_dataset
import shutil
from uuid import uuid4


with gr.Blocks() as demo:
    with gr.Row():
        text = gr.Textbox()
```

Methods

__call__

```
gradio.Progress.__call__(progress, ···)
```

Description

Updates progress tracker with progress and message text.

Agruments

Parameter	Description
progress *float | tuple[int, int | None] | None* *required*	If float, should be between 0 and 1 representing completion. If Tuple, first number represents steps completed, and second value represents total steps or None if unknown. If None, hides progress bar.
desc *str | None* **default: None**	description to display.

Parameter	Description
total *int | None* **default: None**	estimated total number of steps.
unit *str* **default: "steps"**	unit of iterations.

tqdm

```
gradio.Progress.tqdm(iterable, ···)
```

Description

Attaches progress tracker to iterable, like tqdm.

Agruments

Parameter	Description
iterable *Iterable | None* **required**	iterable to attach progress tracker to.
desc *str | None* **default: None**	description to display.
total *int | None* **default: None**	estimated total number of steps.
unit *str* **default: "steps"**	unit of iterations.

gradio