



New to Gradio? Start here: Getting Started

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Tab

```
with gradio.Tab():
```

Description

Tab (or its alias TabItem) is a layout element. Components defined within the Tab will be visible when this tab is selected tab.

Example Usage

```
with gr.Blocks() as demo:
    with gr.Tab("Lion"):
        gr.Image("lion.jpg")
        gr.Button("New Lion")
    with gr.Tab("Tiger"):
        gr.Image("tiger.jpg")
        gr.Button("New Tiger")
```

Initialization

Parameter

Description

The visual label for the tab

str | None

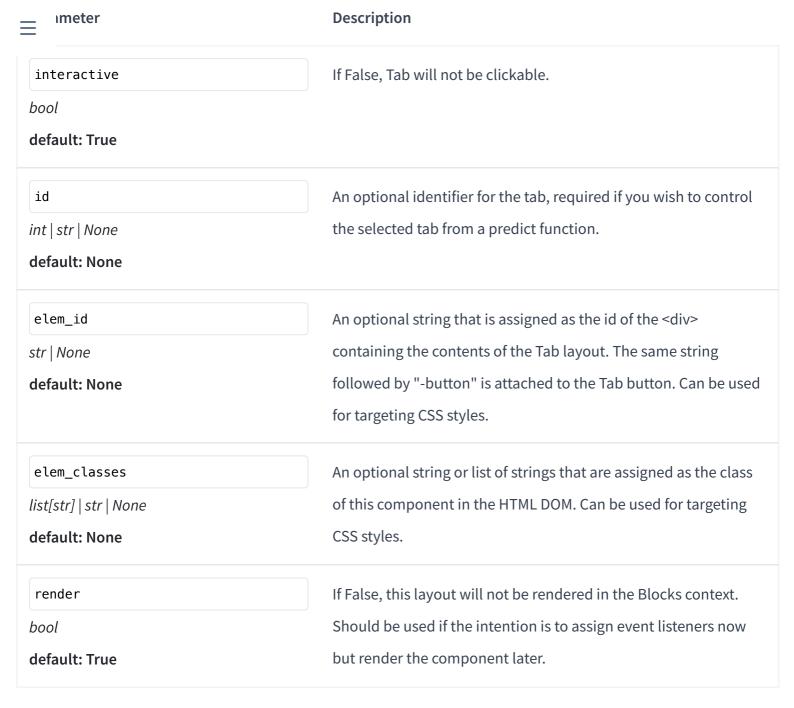
default: None

Visible

If False, Tab will be hidden.

bool

default: True



Methods

select

 $gradio.Tab.select(\cdots)$

Description

Event listener for when the user selects or deselects the Tab. Uses event data gradio. SelectData to carry value referring to the label of the Tab, and selected to refer to state of the Tab. See EventData documentation on how to use this event data

Agruments

Parameter	Description
fn Callable None Literal['decorator'] default: "decorator"	the function to call when this event is triggered. Often a machine learning model's prediction function. Each parameter of the function corresponds to one input component, and the function should return a single value or a tuple of values, with each element in the tuple corresponding to one output component.
<pre>inputs Component list[Component] set[Component] None default: None</pre>	List of gradio.components to use as inputs. If the function takes no inputs, this should be an empty list.
outputs Component list[Component] None default: None	List of gradio.components to use as outputs. If the function returns no outputs, this should be an empty list.
api_name str None Literal[False] default: None	defines how the endpoint appears in the API docs. Can be a string, None, or False. If set to a string, the endpoint will be exposed in the API docs with the given name. If None (default), the name of the function will be used as the API endpoint. If False, the endpoint will not be exposed in the API docs and downstream apps (including those that gr.load this app) will not be able to use this event.
scroll_to_output bool default: False	If True, will scroll to output component on completion
show_progress	If True, will show progress animation while pending

Literal[('full', 'minimal', 'hidden')]

default: "full"

Parameter	Description
queue bool None default: None	If True, will place the request on the queue, if the queue has been enabled. If False, will not put this event on the queue, even if the queue has been enabled. If None, will use the queue setting of the gradio app.
batch bool default: False	If True, then the function should process a batch of inputs, meaning that it should accept a list of input values for each parameter. The lists should be of equal length (and be up to length max_batch_size). The function is then required to return a tuple of lists (even if there is only 1 output component), with each list in the tuple corresponding to one output component.
<pre>max_batch_size int default: 4</pre>	Maximum number of inputs to batch together if this is called from the queue (only relevant if batch=True)
preprocess bool default: True	If False, will not run preprocessing of component data before running 'fn' (e.g. leaving it as a base64 string if this method is called with the <code>Image</code> component).
postprocess bool default: True	If False, will not run postprocessing of component data before returning 'fn' output to the browser.
cancels dict[str, Any] list[dict[str, Any]] None default: None	A list of other events to cancel when this listener is triggered. For example, setting cancels=[click_event] will cancel the click_event, where click_event is the return value of another components .click method. Functions that have not yet run

(or generators that are iterating) will be cancelled, but

functions that are currently running will be allowed to finish.

Parameter Description every Run this event 'every' number of seconds while the client connection is open. Interpreted in seconds. Queue must be float | None enabled. default: None trigger_mode If "once" (default for all events except .change()) would not Literal[('once', 'multiple', 'always_last')] allow any submissions while an event is pending. If set to "multiple", unlimited submissions are allowed while None default: None pending, and "always_last" (default for .change() event) would allow a second submission after the pending event is complete. Optional frontend js method to run before running 'fn'. Input js arguments for js method are values of 'inputs' and 'outputs', str | None return should be a list of values for output components. default: None concurrency_limit If set, this is the maximum number of this event that can be int | None | Literal['default'] running simultaneously. Can be set to None to mean no default: "default" concurrency_limit (any number of this event can be running simultaneously). Set to "default" to use the default concurrency limit (defined by the default concurrency limit) parameter in Blocks.queue(), which itself is 1 by default). concurrency_id If set, this is the id of the concurrency group. Events with the same concurrency_id will be limited by the lowest set str | None

default: None

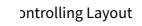
concurrency_limit.

show_api

bool

default: True

whether to show this event in the "view API" page of the Gradio app, or in the ".view_api()" method of the Gradio clients. Unlike setting api_name to False, setting show_api to False will still allow downstream apps to use this event. If fn is None, show_api will automatically be set to False.



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