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Slider

 $gradio.Slider(\cdots)$

Description

Creates a slider that ranges from minimum to maximum with a step size of step.

Behavior

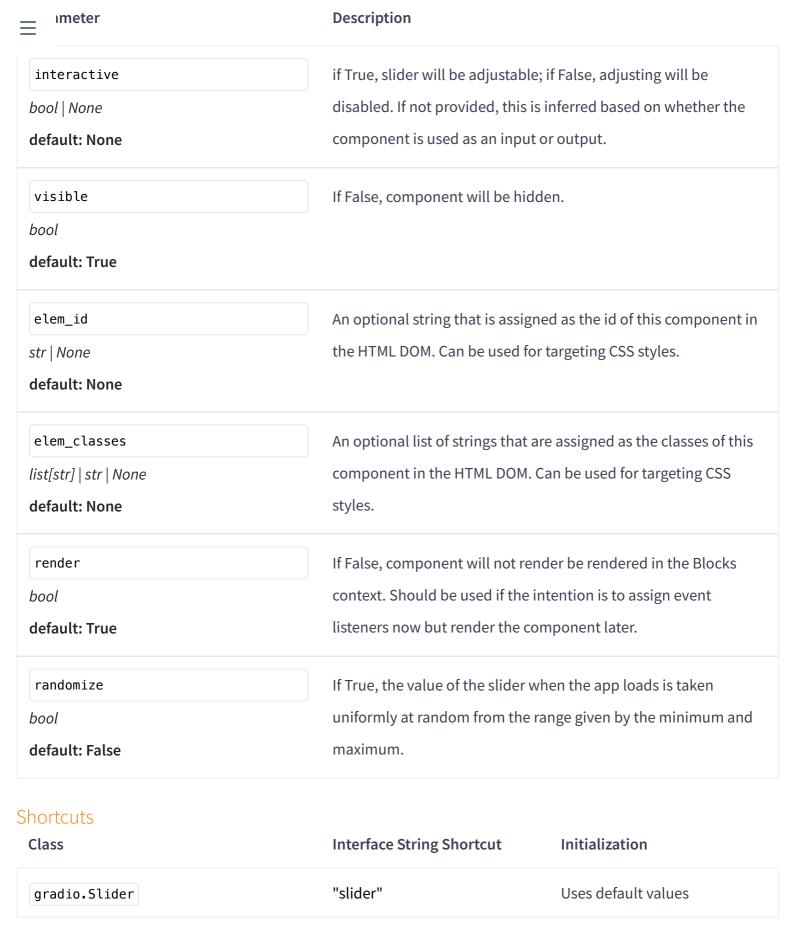
As input: passes slider value as a float into the function.

As output: expects an int or float returned from function and sets slider value to it as long as it is within range.

Initialization

Parameter	Description
minimum	minimum value for slider.
float	
default: 0	
maximum	maximum value for slider.
float	
default: 100	
value	default value. If callable, the function will be called whenever the
float Callable None	app loads to set the initial value of the component. Ignored if
default: None	randomized=True.

ımeter	Description
step float None default: None	increment between slider values.
label str None default: None	The label for this component. Appears above the component and is also used as the header if there are a table of examples for this component. If None and used in a <code>gr.Interface</code> , the label will be the name of the parameter this component is assigned to.
info str None default: None	additional component description.
every float None default: None	If value is a callable, run the function 'every' number of seconds while the client connection is open. Has no effect otherwise. Queue must be enabled. The event can be accessed (e.g. to cancel it) via this component's .load_event attribute.
show_label bool None default: None	if True, will display label.
container bool default: True	If True, will place the component in a container - providing some extra padding around the border.
scale int None default: None	relative width compared to adjacent Components in a Row. For example, if Component A has scale=2, and Component B has scale=1, A will be twice as wide as B. Should be an integer.
min_width int default: 160	minimum pixel width, will wrap if not sufficient screen space to satisfy this value. If a certain scale value results in this Component being narrower than min_width, the min_width parameter will be respected first.



Demos

sentence_builder	slider_release	interface_random_slider	blocks_random_slider
import gradio as g	gr		

```
ef sentence_builder(quantity, animal, countries, place, activity_list, morning):
    return f"""The {quantity} {animal}s from {" and ".join(countries)} went to the {place}
    where they {" and ".join(activity_list)} until the {"morning" if morning else "night"}"""

demo = gr.Interface(
    sentence_builder,
    [
```

Event Listeners

Description

Event listeners allow you to capture and respond to user interactions with the UI components you've defined in a Gradio Blocks app. When a user interacts with an element, such as changing a slider value or uploading an image, a function is called.

Supported Event Listeners

The Slider component supports the following event listeners. Each event listener takes the same parameters, which are listed in the Event Arguments table below.

Listener	Description
gradio.Slider.change(fn, ···)	Triggered when the value of the Slider changes either because of user input (e.g. a user types in a textbox) OR because of a function update (e.g. an image receives a value from the output of an event trigger). See .input() for a listener that is only triggered by user input.
<pre>gradio.Slider.input(fn,)</pre>	This listener is triggered when the user changes the value of the Slider.
gradio.Slider.release(fn, ···)	This listener is triggered when the user releases the mouse on this Slider.

Event Arguments

Parameter Description

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 Literal[('full', 'minimal', 'hidden')]	If True, will show progress animation while pending

default: "full"

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. 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 <code>max_batch_size</code>). The function is then <i>required</i> to return a tuple of lists (even if there is only 1 output component), with each list in the tuple corresponding to one
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 <i>required</i> to return a tuple of lists (even if there is only 1 output
output component.
Maximum number of inputs to batch together if this is called from the queue (only relevant if batch=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).
If False, will not run postprocessing of component data before returning 'fn' output to the browser.
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.

Description

Parameter

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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