

New to Gradio? Start here: **Getting Started**

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Markdown

 $gradio.Markdown(\cdots)$

Description

Used to render arbitrary Markdown output. Can also render latex enclosed by dollar signs.

Behavior

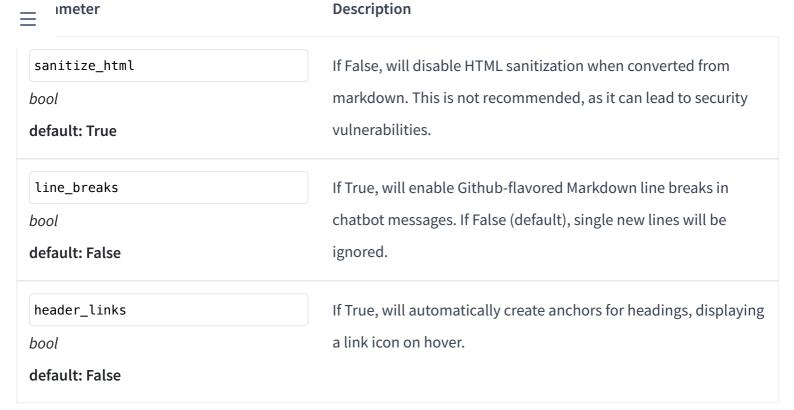
As input: this component does *not* accept input.

As output: expects a valid str that can be rendered as Markdown.

Initialization

| Parameter | Description |
|------------------------------------|--|
| value str Callable default: "" | Value to show in Markdown component. If callable, the function will be called whenever the app loads to set the initial value of the component. |
| str None default: None | The label for this component. Is used as the header if there are a table of examples for this component. If None and used in a gr.Interface , the label will be the name of the parameter this component is assigned to. |
| 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. |

| imeter | Description |
|------------------------------------|--|
| show_label | This parameter has no effect. |
| bool None | |
| default: None | |
| rtl | If True, sets the direction of the rendered text to right-to-left. |
| bool | Default is False, which renders text left-to-right. |
| default: False | |
| latex_delimiters | A list of dicts of the form "left": open delimiter (str), "right": |
| list[dict[str, str bool]] None | close delimiter (str), "display": whether to display in newline |
| default: None | (bool) that will be used to render LaTeX expressions. If not |
| | provided, [latex_delimiters] is set to [["left": "\$\$", "right": "\$\$", |
| | "display": True], so only expressions enclosed in \$\$ delimiters w |
| | be rendered as LaTeX, and in a new line. Pass in an empty list to |
| | disable LaTeX rendering. For more information, see the [KaTeX |
| | documentation](https://katex.org/docs/autorender.html). |
| visible | If False, component will be hidden. |
| bool | |
| default: True | |
| elem_id | An optional string that is assigned as the id of this component in |
| str None | the HTML DOM. Can be used for targeting CSS styles. |
| default: None | |
| elem_classes | An optional list of strings that are assigned as the classes of this |
| list[str] str None | component in the HTML DOM. Can be used for targeting CSS |
| default: None | styles. |
| render | If False, component will not render be rendered in the Blocks |
| bool | context. Should be used if the intention is to assign event |
| default: True | listeners now but render the component later. |



Shortcuts

| Class | Interface String Shortcut | Initialization |
|-----------------|---------------------------|---------------------|
| gradio.Markdown | "markdown" | Uses default values |

Demos

```
blocks_hello

import gradio as gr

def welcome(name):
    return f"Welcome to Gradio, {name}!"

with gr.Blocks() as demo:
    gr.Markdown(
    """

# Hello World!

Start typing below to see the output.
    """)
```

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 Markdown 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.Markdown.change(fn, ···) | Triggered when the value of the Markdown 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. |

| 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. |

| Parameter | Description |
|--|--|
| 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')] default: "full" | If True, will show progress animation while pending |
| queue bool 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, |
| default: None | even if the queue has been enabled. If None, will use the queue setting of the gradio app. |
| batch | If True, then the function should process a batch of inputs, |
| bool default: False | 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 component), with each list in the tuple corresponding to on output component. |
| max_batch_size int | Maximum number of inputs to batch together if this is calle from the queue (only relevant if batch=True) |

| Parameter | Description |
|--|--|
| 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 Tmage 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. |
| every float None default: None | Run this event 'every' number of seconds while the client connection is open. Interpreted in seconds. Queue must be enabled. |
| <pre>trigger_mode Literal[('once', 'multiple', 'always_last')] None default: None</pre> | If "once" (default for all events except .change()) would not allow any submissions while an event is pending. If set to "multiple", unlimited submissions are allowed while pending, and "always_last" (default for .change() event) would allow a second submission after the pending event is complete. |

js

str | None

default: None

Optional frontend js method to run before running 'fn'. Input

arguments for js method are values of 'inputs' and 'outputs',

return should be a list of values for output components.



Description

concurrency_limit

int | None | Literal['default']

default: "default"

If set, this is the maximum number of this event that can be running simultaneously. Can be set to None to mean no 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

str | None

default: None

If set, this is the id of the concurrency group. Events with the same concurrency_id will be limited by the lowest set 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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Key Features



