SVELTE • LEGACY APIS

on:

ON THIS PAGE

In runes mode, event handlers are just like any other attribute or prop.

In legacy mode, we use the on: directive:

```
App.svelte

<script lang="ts">
  let count = 0;

function handleClick(event: MouseEvent) {
    count += 1;
  }
  </script>

<button on:click={handleClick}>
    count: {count}
  </button>
```

Handlers can be declared inline with no performance penalty:

```
<button on:click={() => (count += 1)}>
  count: {count}
</button>
```

Add *modifiers* to element event handlers with the | character.

```
preventDefault — calls event.preventDefault() before running the handler
stopPropagation — calls event.stopPropagation(), preventing the event reaching the
next element
```

stopImmediatePropagation - calls event.stopImmediatePropagation(), preventing other listeners of the same event from being fired.

passive — improves scrolling performance on touch/wheel events (Svelte will add it automatically where it's safe to do so)

```
nonpassive — explicitly set passive: false
```

capture — fires the handler during the *capture* phase instead of the *bubbling* phase

once — remove the handler after the first time it runs

self — only trigger handler if event.target is the element itself

trusted — only trigger handler if event.isTrusted is true. I.e. if the event is triggered by a user action.

Modifiers can be chained together, e.g. on:click|once|capture={...}.

If the on: directive is used without a value, the component will *forward* the event, meaning that a consumer of the component can listen for it.

```
<button on:click>
  The component itself will emit the click event
</button>
```

It's possible to have multiple event listeners for the same event:

```
App.svelte

<script lang="ts">
  let count = 0;

function increment() {
```

```
console.log(event);
}
</script>

<button on:click={increment} on:click={log}>
    clicks: {count}
    </button>
```

Component events

Components can dispatch events by creating a *dispatcher* when they are initialised:

```
Stepper.svelte -->

<script>
  import { createEventDispatcher } from 'svelte';
  const dispatch = createEventDispatcher();
  </script>

<button on:click={() => dispatch('decrement')}>decrement</button>
  <button on:click={() => dispatch('increment')}>increment</button>
```

dispatch creates a <u>CustomEvent</u>. If a second argument is provided, it becomes the detail property of the event object.

A consumer of this component can listen for the dispatched events:

immediate children.

Other than once, modifiers are not valid on component event handlers.

If you're planning an eventual migration to Svelte 5, use callback props instead. This will make upgrading easier as createEventDispatcher is deprecated:

```
Stepper.svelte
<script>
 export let decrement;
 export let increment;
</script>
<button on:click={decrement}>decrement
<button on:click={increment}>increment</button>
```

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PREVIOUS \$\$props and \$\$restProps

NEXT

<slot>