Firing Events

Note

Most projects have a few use cases for fireEvent, but the majority of the time you should probably use @testing-library/user-event.

fireEvent

```
fireEvent(node: HTMLElement, event: Event)
```

Fire DOM events.

```
// <button>Submit</button>
fireEvent(
```



Yesting Library





```
cancelable: true,
}),
```

fireEvent[eventName]

```
fireEvent[eventName](node: HTMLElement, eventProperties: Object)
```

Convenience methods for firing DOM events. Check out src/event-map.js for a full list as well as default eventProperties.

target: When an event is dispatched on an element, the event has the subjected element on a property called target. As a convenience, if you provide a target property in the eventProperties (second argument), then those properties will be assigned to the node which is receiving the event.

This is particularly useful for a change event:

```
fireEvent.change(getByLabelText(/username/i), {target: {value: 'a'}})
// note: attempting to manually set the files property of an HTMLInputEler
// results in an error as the files property is read-only.
// this feature works around that by using Object.defineProperty.
fireEvent.change(getByLabelText(/picture/i), {
  target: {
   files: [new File(['(---)'], 'chucknorris.png', {type: 'image/png'})]
  },
})
// Note: The 'value' attribute must use ISO 8601 format when firing a
// change event on an input of type "date". Otherwise the element will no
// reflect the changed value.
// Invalid:
fireEvent.change(input, {target: {value: '24/05/2020'}})
// Valid:
fireEvent.change(input, {target: {value: '2020-05-24'}})
```

dataTransfer: Drag events have a dataTransfer property that contains data transferred during the operation. As a convenience, if you provide a dataTransfer property in the eventProperties (second argument), then those properties will be added to the event.

This should predominantly be used for testing drag and drop interactions.

```
fireEvent.drop(getByLabelText(/drop files here/i), {
  dataTransfer: {
    files: [new File(['(-□_□)'], 'chucknorris.png', {type: 'image/pro'\]},
  },
})
```

Keyboard events: There are three event types related to keyboard input - keyPress , keyDown , and keyUp . When firing these you need to reference an element in the DOM and the key you want to fire.

```
fireEvent.keyDown(domNode, {key: 'Enter', code: 'Enter'})
fireEvent.keyDown(domNode, {key: 'A', code: 'KeyA'})
```

You can find out which key code to use at https://keycode.info/.

createEvent[eventName]

```
createEvent[eventName](node: HTMLElement, eventProperties: Object)
```

Convenience methods for creating DOM events that can then be fired by **fireEvent**, allowing you to have a reference to the event created: this might be useful if you need to access event properties that cannot be initiated programmatically (such as timeStamp).

```
const myEvent = createEvent.click(node, {button: 2})
fireEvent(node, myEvent)
// myEvent.timeStamp can be accessed just like any other properties from r
// note: The access to the events created by `createEvent` is based on the
// Therefore, native properties of HTMLEvent object (e.g. `timeStamp`, `co
// For more info see: https://developer.mozilla.org/en-US/docs/Web/API/Eve
```

You can also create generic events:

```
// simulate the 'input' event on a file input
fireEvent(
  input,
  createEvent('input', input, {
    target: {files: inputFiles},
    ...init,
```



```
}),
```

Using Jest Function Mocks

Jest's Mock functions can be used to test that a callback passed to the function was called, or what it was called when the event that **should** trigger the callback function does trigger the bound callback.

React

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