

# 18-1 实现事件注册

## type DOMEventNames

packages/react-dom-bindings/src/events/DOMEventNames.ts

```
// 'animationiteration' |
// 'animationend |
// 'animationstart' |
| "beforeblur" // Not a real event. This is used by event experiment
| "beforeinput"
| "blur"
| "canplay"
| "canplaythrough"
| "cancel"
| "change"
| "click"
| "close"
| "compositionend"
| "compositionstart"
| "compositionupdate"
| "contextmenu"
copy"
| "cut"
| "dblclick"
| "auxclick"
| "drag"
| "dragend"
| "dragenter"
| "dragexit"
| "dragleave"
| "dragover"
| "dragstart"
| "drop"
| "durationchange"
| "emptied"
| "encrypted"
| "ended"
| "error"
| "focus"
| "focusin"
| "focusout"
| "fullscreenchange"
| "gotpointercapture"
| "hashchange"
| "input"
| "invalid"
```

```
| "keydown"
| "keypress"
| "keyup"
| "load"
| "loadstart"
| "loadeddata"
| "loadedmetadata"
| "lostpointercapture"
| "message"
| "mousedown"
| "mouseenter"
| "mouseleave"
| "mousemove"
| "mouseout"
| "mouseover"
| "mouseup"
| "paste"
| "pause"
| "play"
| "playing"
| "pointercancel"
| "pointerdown"
| "pointerenter"
| "pointerleave"
| "pointermove"
| "pointerout"
| "pointerover"
| "pointerup"
| "popstate"
| "progress"
| "ratechange"
| "reset"
| "resize"
| "scroll"
| "scrollend"
| "seeked"
| "seeking"
| "select"
| "selectstart"
| "selectionchange"
| "stalled"
```

```
| "submit"
| "suspend"
| "textInput" // Intentionally camelCase. Non-standard.
| "timeupdate"
| "toggle"
| "touchcancel"
| "touchend"
| "touchmove"
| "touchstart"
// These are vendor-prefixed so you should use the exported constant
// 'transitionend' |
| "volumechange"
| "waiting"
| "wheel";
```

#### 不适合委托的事件

packages/react-dom-bindings/src/events/DOMPluginEventSystem.js

```
TypeScript
// 需要分别附加到媒体元素的事件列表。
export const mediaEventTypes: Array<DOMEventName> = [
  "abort",
  "canplay",
  "canplaythrough",
  "durationchange",
  "emptied",
  "encrypted",
  "ended",
  "error",
  "loadeddata",
  "loadedmetadata",
  "loadstart",
  "pause",
  "play",
  "playing",
  "progress",
  "ratechange",
  "resize",
```

```
"seeked",
 "seeking",
 "stalled",
 "suspend",
 "timeupdate",
 "volumechange",
 "waiting",
];
// 我们不应该将这些事件委托给容器,而是应该直接在实际的目标元素上设置它们。这主要是
export const nonDelegatedEvents: Set<DOMEventName> = new Set([
 "cancel",
 "close",
 "invalid",
 "load",
 "scroll",
 "scrollend",
 "toggle",
 // 注意:"error" 事件并不是一个独占的媒体事件,也可能发生在其他元素上。我们不会!
 ...mediaEventTypes,
]);
```

### 不同类型的事件注册

react/packages/react-dom-bindings/src/events/DOMPluginEventSystem.ts 这里以 SimpleEvent 为例:

```
JavaScript
SimpleEventPlugin.registerEvents();
// EnterLeaveEventPlugin.registerEvents();
// ChangeEventPlugin.registerEvents();
// SelectEventPlugin.registerEvents();
// BeforeInputEventPlugin.registerEvents();
```

#### SimpleEventPlugin

普通事件,如 click、drag、drop 等。

#### packages/react-dom-bindings/src/events/plugins/SimpleEventPlugin.js

```
import {
  registerSimpleEvents,
} from '../DOMEventProperties';

export {registerSimpleEvents as registerEvents};
```

packages/react-dom-bindings/src/events/DOMEventProperties.js

```
TypeScript
import type { DOMEventName } from "./DOMEventNames";
import { registerTwoPhaseEvent } from "./EventRegistry";
export const topLevelEventsToReactNames: Map<DOMEventName, string | nu</pre>
  new Map();
const simpleEventPluginEvents = [
  "abort",
  "auxClick",
  "cancel",
  "canPlay",
  "canPlayThrough",
  "click",
  "close",
  "contextMenu",
  "copy",
  "cut",
  "drag",
  "dragEnd",
  "dragEnter",
  "dragExit",
  "dragLeave",
  "dragOver",
  "dragStart",
  "drop",
  "durationChange",
  "emptied",
  "encrypted",
```

```
"ended",
"error",
"gotPointerCapture",
"input",
"invalid",
"keyDown",
"keyPress",
"keyUp",
"load",
"loadedData",
"loadedMetadata",
"loadStart",
"lostPointerCapture",
"mouseDown",
"mouseMove",
"mouseOut",
"mouseOver",
"mouseUp",
"paste",
"pause",
"play",
"playing",
"pointerCancel",
"pointerDown",
"pointerMove",
"pointerOut",
"pointerOver",
"pointerUp",
"progress",
"rateChange",
"reset",
"resize",
"seeked",
"seeking",
"stalled",
"submit",
"suspend",
"timeUpdate",
"touchCancel",
"touchEnd",
"touchStart",
```

```
"volumeChange",
  "scroll",
  "scrollEnd",
  "toggle",
  "touchMove",
  "waiting",
  "wheel",
];
function registerSimpleEvent(domEventName: DOMEventName, reactName: st
  topLevelEventsToReactNames.set(domEventName, reactName);
  registerTwoPhaseEvent(reactName, [domEventName]);
}
export function registerSimpleEvents() {
  for (let i = 0; i < simpleEventPluginEvents.length; i++) {</pre>
    const eventName = simpleEventPluginEvents[i];
    const domEventName = eventName.toLowerCase() as DOMEventName;
    const capitalizedEvent = eventName[0].toUpperCase() + eventName.sl
    registerSimpleEvent(domEventName, "on" + capitalizedEvent);
 }
  // Special cases where event names don't match.
  registerSimpleEvent("dblclick", "onDoubleClick");
  registerSimpleEvent("focusin", "onFocus");
  registerSimpleEvent("focusout", "onBlur");
 // 另外还有ANIMATION与TRANSITION,这里不实现了
}
```