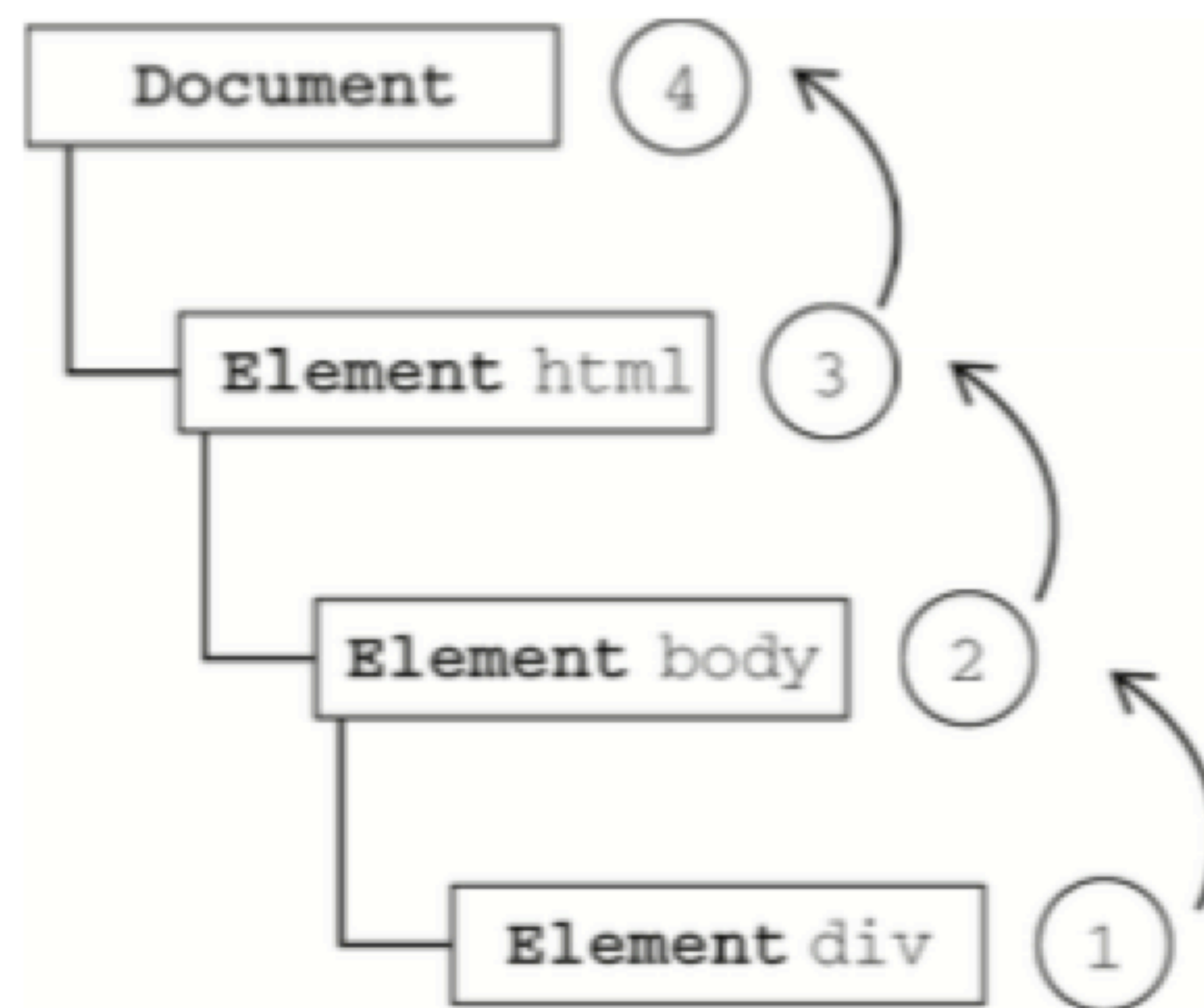


事件

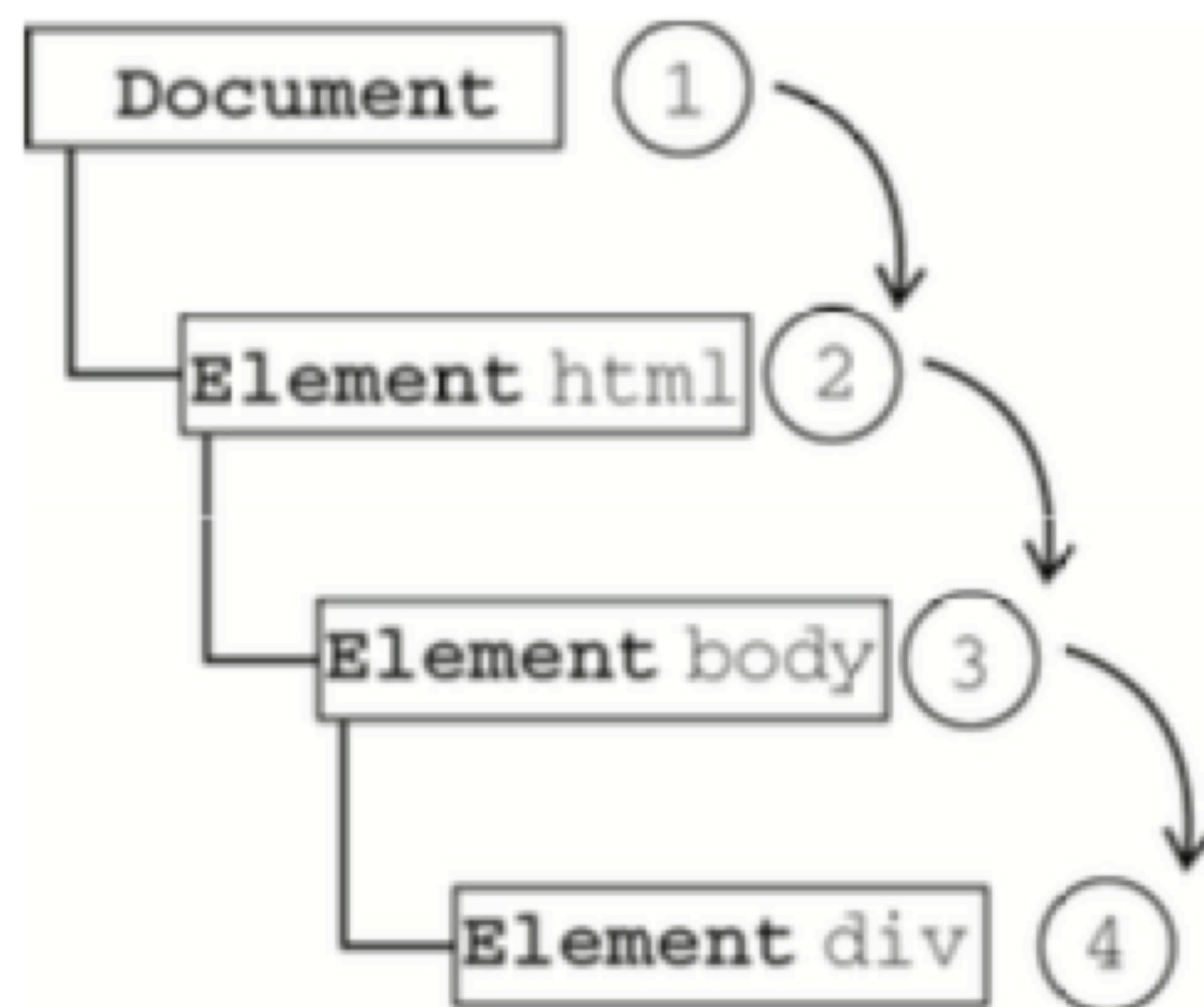
事件流
事件处理
事件对象
事件类型
事件代理

事件流

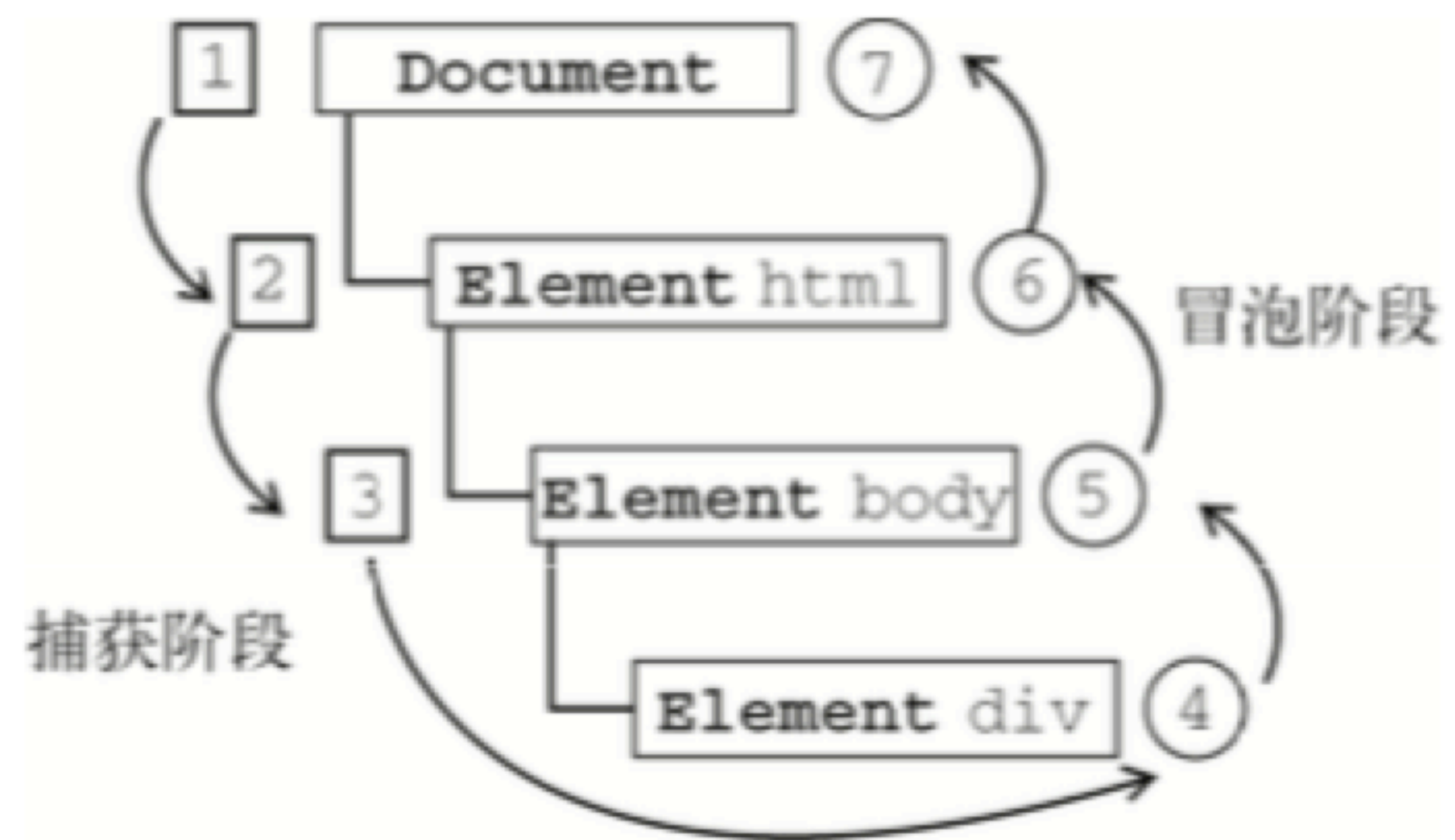
事件流 - 冒泡



事件流 – 捕获



事件流 – DOM事件流



事件处理

事件处理 – HTML

```
<input type="button" value="Click Me" onclick="alert('Clicked')" />
```


事件处理 – HTML

```
<script type="text/javascript">  
    function showMessage(){  
        alert("Hello world!");  
    }  
</script>  
<input type="button" value="Click Me" onclick="showMessage()" />
```

事件处理 – DOM0

```
var btn = document.getElementById("myBtn");  
btn.onclick = function(){  
    alert("Clicked");  
};
```

事件处理 – DOM2

```
var btn = document.getElementById("myBtn");  
btn.addEventListener("click", function(){  
    alert("Hello world!");  
}, false);
```

事件处理 – DOM2

```
var btn = document.getElementById("myBtn");  
btn.addEventListener("click", function(){  
    alert("Hello world!");  
}, false);  
btn.addEventListener("click", function(){  
    alert("Hello world2!");  
}, false);
```



事件处理 – IE

```
var btn = document.getElementById("myBtn");  
btn.attachEvent("onclick", function(){  
    alert("Clicked");  
});
```

事件处理 – IE

```
var btn = document.getElementById("myBtn");  
btn.attachEvent("onclick", function(){  
    alert("Clicked");  
});  
btn.attachEvent("onclick", function(){  
    alert("Hello world!");  
});
```



事件处理 – 删除事件处理

```
var btn = document.getElementById("myBtn");
btn.addEventListener("click", function(){
    alert("Hello world!");
}, false);
btn.removeEventListener("click", function(){
    alert("Hello world!");
}, false);
```

```
var btn = document.getElementById("myBtn");
btn.attachEvent("onclick", function(){
    alert("Hello world!");
});
btn.detachEvent("onclick", function(){
    alert("Hello world!");
});
```

事件处理 – 删除事件处理

```
var btn = document.getElementById("myBtn");  
var handler = function(){  
    alert("Hello world!");  
};  
btn.addEventListener("click", handler, false);  
btn.removeEventListener("click", handler, false);
```

```
var btn = document.getElementById("myBtn");  
var handler = function(){  
    alert("Hello world!");  
};  
btn.attachEvent("onclick", handler);  
btn.detachEvent("onclick", handler);
```


事件处理 – 作用域

```
<div title="hello" onclick="alert(this.title)">Show Title HTML</div>  
<div title="hello" onclick="showTitle()">Show Title HTML Handler</div>  
<div title="hello" id="titleDiv">Show Title DOM0</div>  
<div title="hello" id="titleDiv2">Show Title DOM2</div>  
<script>
```

hello

```
    function showTitle() {  
        alert(this.title);  
    }
```

undefined

```
    var targetDiv = document.getElementById('titleDiv');  
    targetDiv.onclick = function() {  
        alert(this.title);  
    };  
};
```

hello

```
    var targetDiv2 = document.getElementById('titleDiv2');  
    targetDiv2.addEventListener("click", function() {  
        alert(this.title);  
    }, false);  
}, false);
```

hello

```
</script>
```

事件处理 – 作用域

```
var targetDiv = document.getElementById('titleDiv');  
targetDiv.attachEvent("onclick", function() {  
    alert(this.title);  
});
```

undefined

事件处理 – 跨浏览器

```
var EventUtil = {
  addHandler: function(element, type, handler){
    if (element.addEventListener){
      element.addEventListener(type, handler, false);
    } else if (element.attachEvent){
      element.attachEvent("on" + type, handler);
    } else {
      element["on" + type] = handler;
    }
  },
  removeHandler: function(element, type, handler){
    if (element.removeEventListener){
      element.removeEventListener(type, handler, false);
    } else if (element.detachEvent){
      element.detachEvent("on" + type, handler);
    } else {
      element["on" + type] = null;
    }
  }
};
```

事件对象

事件对象

```
var btn = document.getElementById("myBtn");  
btn.onclick = function(event){  
    alert(event.type); // "click"  
};  
btn.addEventListener("click", function(event){  
    alert(event.type); // "click"  
}, false);
```

事件对象 – target

```
<body>
  <input type="button" id="myBtn"/>
</body>
```

```
var btn = document.getElementById("myBtn");
btn.onclick = function(event){
  alert(event.currentTarget === this); //true
  alert(event.target === this); //true
};

document.body.onclick = function(event){
  alert(event.currentTarget === document.body); //true
  alert(this === document.body); //true
  alert(event.target === document.getElementById("myBtn")); //true
};
```

事件对象 – type

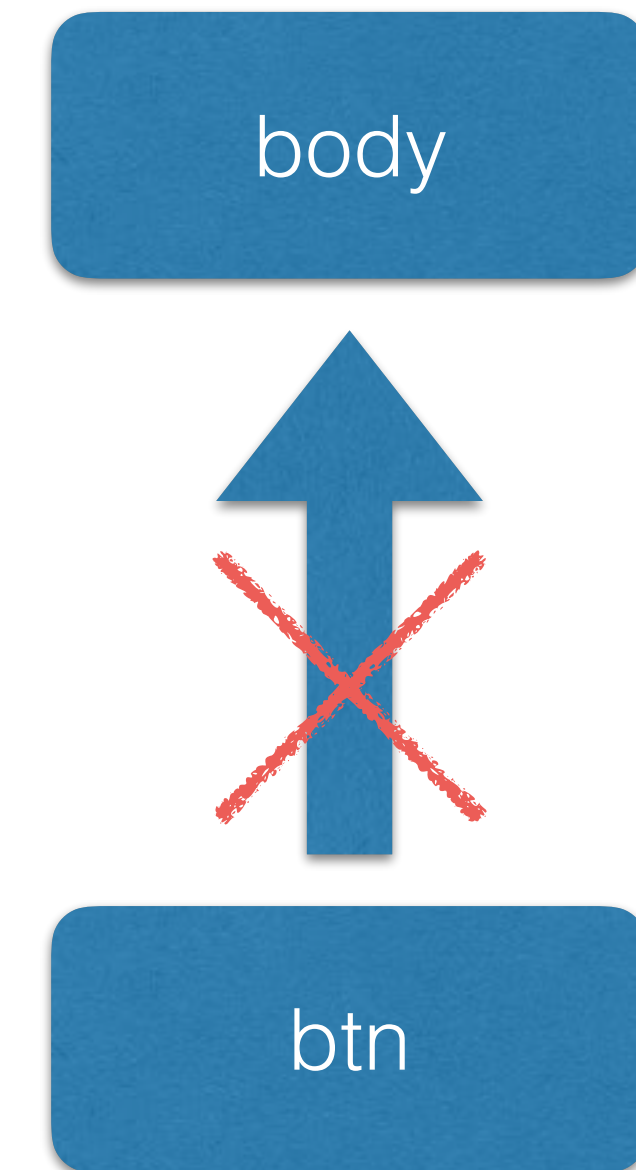
```
var btn = document.getElementById("myBtn");
var handler = function(event){
  switch(event.type){
    case "click":
      alert("Clicked");
      break;
    case "mouseover":
      event.target.style.backgroundColor = "red";
      break;
    case "mouseout":
      event.target.style.backgroundColor = "";
      break;
  }
};
btn.onclick = handler;
btn.onmouseover = handler;
btn.onmouseout = handler;
```

事件对象 – preventDefault

```
var link = document.getElementById("myLink");  
link.onclick = function(event){  
    event.preventDefault();  
};
```


事件对象 – stopPropagation

```
var btn = document.getElementById("myBtn");  
btn.onclick = function(event){  
    alert("Clicked");  
    event.stopPropagation();  
};  
document.body.onclick = function(event){  
    alert("Body clicked");  
};
```



事件对象 – eventPhase

```
var btn = document.getElementById("myBtn");
btn.onclick = function(event){
    alert(event.eventPhase); //2
};
document.body.addEventListener("click", function(event){
    alert(event.eventPhase); //1
}, true);
document.body.onclick = function(event){
    alert(event.eventPhase); //3
};
```

事件对象 – 跨浏览器

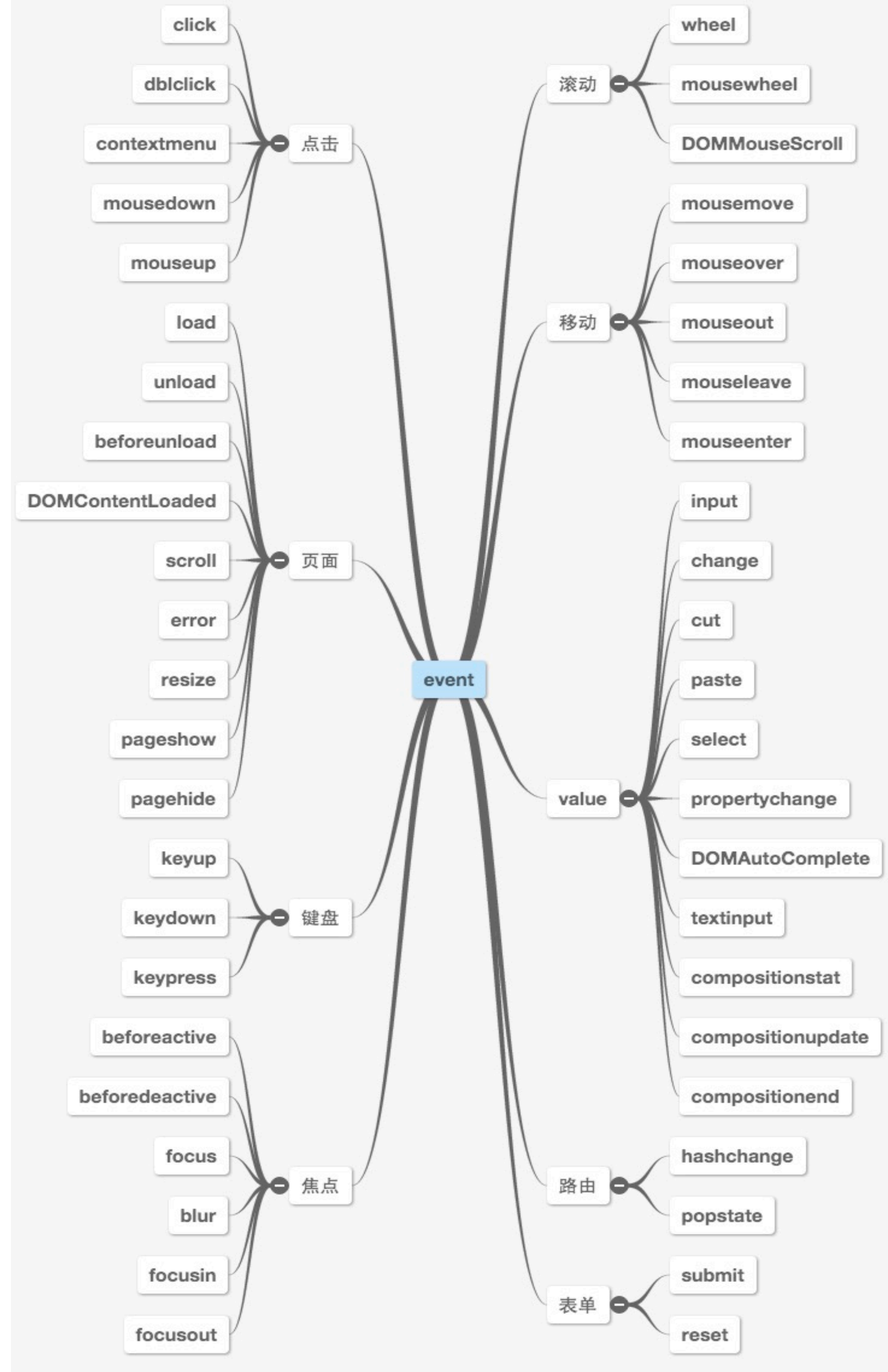
略

事件类型

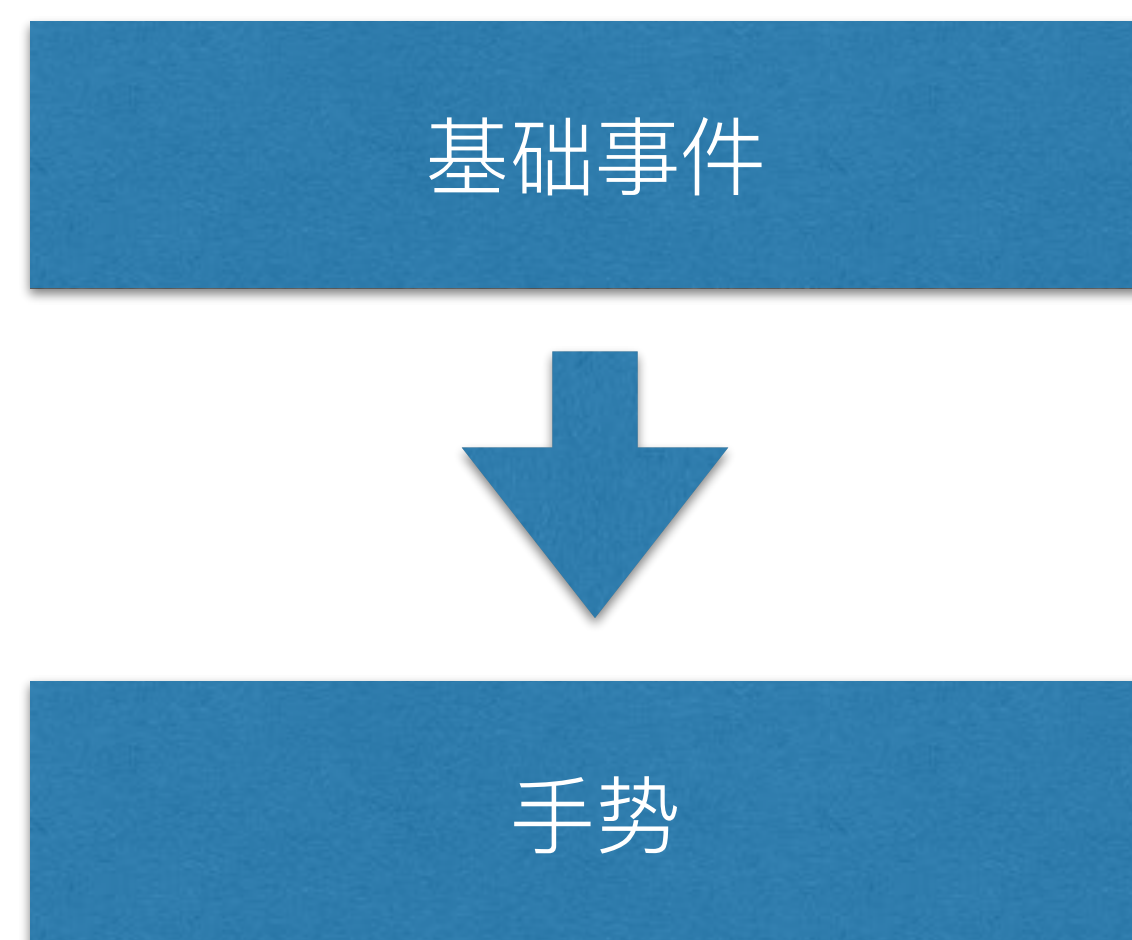
事件类型 – PC

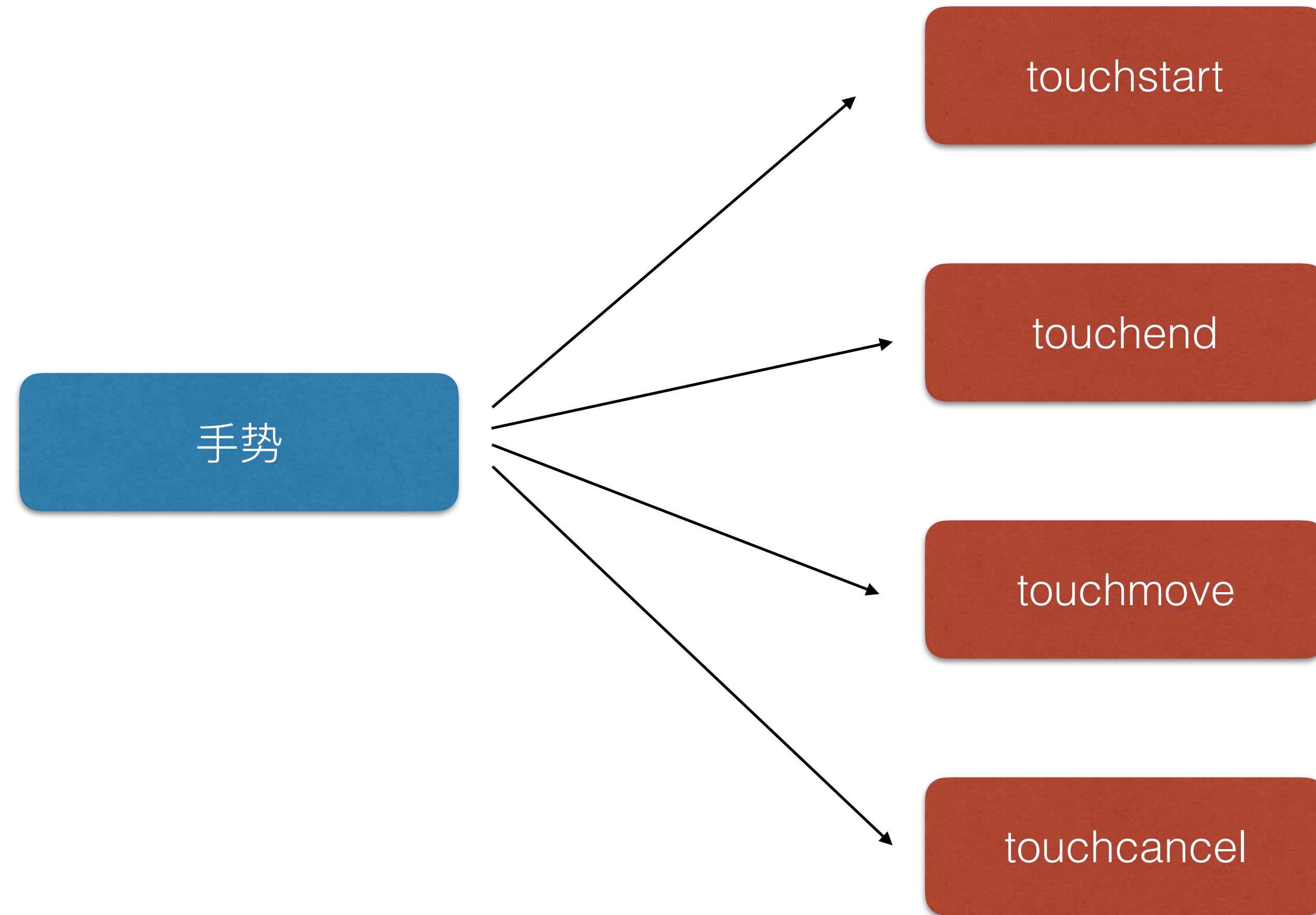
- ❑ UI（User Interface，用户界面）事件，当用户与页面上的元素交互时触发；
- ❑ 焦点事件，当元素获得或失去焦点时触发；
- ❑ 鼠标事件，当用户通过鼠标在页面上执行操作时触发；
- ❑ 滚轮事件，当使用鼠标滚轮（或类似设备）时触发；
- ❑ 文本事件，当在文档中输入文本时触发；
- ❑ 键盘事件，当用户通过键盘在页面上执行操作时触发；
- ❑ 合成事件，当为 IME（Input Method Editor，输入法编辑器）输入字符时触发；
- ❑ 变动（mutation）事件，当底层 DOM 结构发生变化时触发。

HTML5



事件类型 – 移动设备





fastclick (tap)

click

事件类型 – 自定义

```
document.createEvent
```

```
new Event
```

```
new CustomEvent
```

事件代理

事件代理

```
<ul id="myLinks">  
  <li id="goSomewhere">Go somewhere</li>  
  <li id="doSomething">Do something</li>  
  <li id="sayHi">Say hi</li>  
</ul>
```

事件代理 – 传统方式

```
var item1 = document.getElementById("goSomewhere");
var item2 = document.getElementById("doSomething");
var item3 = document.getElementById("sayHi");
EventUtil.addHandler(item1, "click", function(event){
    location.href = "http://www.wrox.com";
});
EventUtil.addHandler(item2, "click", function(event){
    document.title = "I changed the document's title";
});
EventUtil.addHandler(item3, "click", function(event){
    alert("hi");
});
```

事件代理 – 统一处理

```
var list = document.getElementById("myLinks");
EventUtil.addHandler(list, "click", function(event){
    event = EventUtil.getEvent(event);
    var target = EventUtil.getTarget(event);
    switch(target.id) {
        case "doSomething":
            document.title = "I changed the document's title";
            break;
        case "goSomewhere":
            location.href = "http://www.wrox.com";
            break;
        case "sayHi":
            alert("hi");
            break;
    }
});
```