



# EVENT ARCHITECTURE

## Introducing Events

This is div at level1

This is div at level2



```
<!DOCTYPE html>
<html>
  <head>
    <title>Events Introduction</title>
    <script>
      function f1() {
        console.log("f1");
      }
      function f2() {
        console.log("f2");
      }
      function f3() {
        console.log("f3");
      }
      function f4() {
        console.log("f4");
      }
    </script>
  </head>
  <body>
    <div id="level1" onclick="f1()" style="background-color:
brown; color: aliceblue;padding:20px">
      This is div at level1
      <div id="level2" onclick="f2()" style="background-
color: burlywood;padding:20px">
```

```

This is div at level2
<p onclick="f3()" style="background-color:
appworkspace;padding:20px">
    <button onclick="f4()" style="background-
color: beige;padding:20px">
        Click
    </button>
</p>
</div>
</div>
</body>
</html>

```

## Target and Current Target

This is div at level1

This is div at level2



```

<!DOCTYPE html>
<html>
  <head>
    <title>Target and CurrentTarget</title>
    <script>
      function f1() {
        console.log("f1");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
      }
      function f2() {
        console.log("f2");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
      }
      function f3() {
        console.log("f3");
        console.log("Current Element " +

```

```

    console.log("Current Element " +
event.currentTarget.id);
    console.log("Target "+event.target.id);
}
function f4() {
    console.log("f4");
    console.log("Current Element " +
event.currentTarget.id);
    console.log("Target "+event.target.id);
}
</script>
</head>
<body>
    <div id="div1" onclick="f1()" style="background-color:
brown; color: aliceblue;padding:20px">
        This is div at level1
        <div id="div2" onclick="f2()" style="background-color:
burlywood;padding:20px">
            This is div at level2
            <p id="paragraph1" onclick="f3()"
style="background-color: appworkspace;padding:20px">
                <button id="button1" onclick="f4()"
style="background-color: beige;padding:20px">
                    Click
                </button>
            </p>
        </div>
    </div>
</body>
</html>

```

## Event Bubbling and Phases

This is div at level1

This is div at level2




```


<!DOCTYPE html>
<html>

```





```
<head>
  <title>Event Bubble and Phases</title>
  <script>
    function f1() {
      console.log("f1");
      console.log("Current Element " +
event.currentTarget.id);
      console.log("Target "+event.target.id);
      console.log("Event Phase "+event.eventPhase);
      console.log("Bubble Status "+event.bubbles);
      console.log("Cancelable Status
"+event.cancelable);
    }
    function f2() {
      console.log("f2");
      console.log("Current Element " +
event.currentTarget.id);
      console.log("Target "+event.target.id);
      console.log("Event Phase "+event.eventPhase);
      console.log("Bubble Status "+event.bubbles);
      console.log("Cancelable Status
"+event.cancelable);
    }
    function f3() {
      console.log("f3");
      console.log("Current Element " +
event.currentTarget.id);
      console.log("Target "+event.target.id);
      console.log("Event Phase "+event.eventPhase);
      console.log("Bubble Status "+event.bubbles);
      console.log("Cancelable Status
"+event.cancelable);
    }
    function f4() {
      console.log("f4");
      console.log("Current Element " +
event.currentTarget.id);
      console.log("Target "+event.target.id);
      console.log("Event Phase "+event.eventPhase);
      console.log("Bubble Status "+event.bubbles);
      console.log("Cancelable Status
"+event.cancelable);
    }
  </script>
```



```

</head>
<body>
    <div id="div1" onclick="f1()" style="background-color:
brown; color: aliceblue;padding:20px">
        This is div at level1
        <div id="div2" onclick="f2()" style="background-color:
burlywood;padding:20px">
            This is div at level2
            <p id="paragraph1" onclick="f3()"
style="background-color: appworkspace;padding:20px">
                <button id="button1" onclick="f4()"
style="background-color: beige;padding:20px">
                    Click
                </button>
            </p>
        </div>
    </div>
</body>
</html>

```

## Event Propagation

This is div at level1

This is div at level2



```

<!DOCTYPE html>
<html>
    <head>
        <title>Event Propagation</title>
        <script>
            function f1() {
                console.log("f1");
                console.log("Current Element " +
event.currentTarget.id);
                console.log("Target "+event.target.id);
                console.log("Event Phase "+event.eventPhase);
                console.log("Bubble Status "+event.bubbles);
                console.log("Cancelable Status

```

```

    console.log("Cancelable Status " +
event.cancelable);
    }
    function f2() {
        console.log("f2");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target " +event.target.id);
        console.log("Event Phase " +event.eventPhase);
        console.log("Bubble Status " +event.bubbles);
        console.log("Cancelable Status " +event.cancelable);
        event.stopPropagation();
    }
    function f3() {
        console.log("f3");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target " +event.target.id);
        console.log("Event Phase " +event.eventPhase);
        console.log("Bubble Status " +event.bubbles);
        console.log("Cancelable Status " +event.cancelable);
    }
    function f4() {
        console.log("f4");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target " +event.target.id);
        console.log("Event Phase " +event.eventPhase);
        console.log("Bubble Status " +event.bubbles);
        console.log("Cancelable Status " +event.cancelable);
    }
</script>
</head>
<body>
    <div id="div1" onclick="f1()" style="background-color:
brown; color: aliceblue;padding:20px">
        This is div at level1
        <div id="div2" onclick="f2()" style="background-color:
burlywood;padding:20px">
            This is div at level2
            <p id="paragraph1" onclick="f3()"

```

```

<div style="background-color: appworkspace;padding:20px">
  <button id="button1" onclick="f4()"
  style="background-color: beige;padding:20px">
    Click
  </button>
</div>
</div>
</body>
</html>

```

## Event Capture

This is div at level1


This is div at level2





```

<!DOCTYPE html>
<html>
  <head>
    <title>Event Capture</title>
    <script>
      function f1() {
        console.log("f1");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
      }
      function f2() {
        console.log("f2");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
      }
    </script>
  </head>
  <body>
    <div id="level1">
      <div id="level2">
        <button id="button1" onclick="f4()"
        style="background-color: beige;padding:20px">
          Click
        </button>
      </div>
    </div>
  </body>
</html>

```



```
        console.log("Cancelable Status
event.cancelable);
    }
    function f3() {
        console.log("f3");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
    }
    function f4() {
        console.log("f4");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
    }
    function f5() {
        console.log("f5");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
    }
    function f6() {
        console.log("f6");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
    }
    function f7() {
```





```

function f7() {
    console.log("f7");
    console.log("Current Element " +
event.currentTarget.id);
    console.log("Target "+event.target.id);
    console.log("Event Phase "+event.eventPhase);
    console.log("Bubble Status "+event.bubbles);
    console.log("Cancelable Status
"+event.cancelable);
}
function f8() {
    console.log("f8");
    console.log("Current Element " +
event.currentTarget.id);
    console.log("Target "+event.target.id);
    console.log("Event Phase "+event.eventPhase);
    console.log("Bubble Status "+event.bubbles);
    console.log("Cancelable Status
"+event.cancelable);
}
</script>
</head>
<body>
    <div id="div1" onclick="f1()" style="background-color:
brown; color: aliceblue;padding:20px">
        This is div at level1
        <div id="div2" onclick="f2()" style="background-color:
burlywood;padding:20px">
            This is div at level2
            <p id="paragraph1" onclick="f3()"
style="background-color: appworkspace;padding:20px">
                <button id="button1" onclick="f4()"
style="background-color: beige;padding:20px">
                    Click
                </button>
            </p>
        </div>
    </div>
</script>

document.getElementById("div1").addEventListener("click",f5,true)
;

document.getElementById("div2").addEventListener("click",f6,true)

```



```
document.getElementById("paragraph1").addEventListener("click",f7,true);

document.getElementById("button1").addEventListener("click",f8,true);

</script>
</body>
</html>
```

## Prevent Default

This is div at level1

This is div at level2



[Rajesh Patkar Institute](https://www.rajeshpatkar.com)

```
<!DOCTYPE html>
<html>
  <head>
    <title>Event Capture</title>
    <script>
      function f1() {
        console.log("f1");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
      }
      function f2() {
        console.log("f2");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id):
```



```
console.log("Target " + event.target.id);  
console.log("Event Phase " + event.eventPhase);  
console.log("Bubble Status " + event.bubbles);  
console.log("Cancelable Status  
"+event.cancelable);  
}  
function f3() {  
    console.log("f3");  
    console.log("Current Element " +  
event.currentTarget.id);  
    console.log("Target " + event.target.id);  
    console.log("Event Phase " + event.eventPhase);  
    console.log("Bubble Status " + event.bubbles);  
    console.log("Cancelable Status  
"+event.cancelable);  
}  
function f4() {  
    console.log("f4");  
    console.log("Current Element " +  
event.currentTarget.id);  
    console.log("Target " + event.target.id);  
    console.log("Event Phase " + event.eventPhase);  
    console.log("Bubble Status " + event.bubbles);  
    console.log("Cancelable Status  
"+event.cancelable);  
}  
function f5() {  
    console.log("f5");  
    console.log("Current Element " +  
event.currentTarget.id);  
    console.log("Target " + event.target.id);  
    console.log("Event Phase " + event.eventPhase);  
    console.log("Bubble Status " + event.bubbles);  
    console.log("Cancelable Status  
"+event.cancelable);  
}  
function f6() {  
    console.log("f6");  
    console.log("Current Element " +  
event.currentTarget.id);  
    console.log("Target " + event.target.id);  
    console.log("Event Phase " + event.eventPhase);  
    console.log("Bubble Status " + event.bubbles);  
    console.log("Cancelable Status
```

```

event.cancelable);
    }
    function f7() {
        console.log("f7");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
    }
    function f8() {
        console.log("f8");
        console.log("Current Element " +
event.currentTarget.id);
        console.log("Target "+event.target.id);
        console.log("Event Phase "+event.eventPhase);
        console.log("Bubble Status "+event.bubbles);
        console.log("Cancelable Status
"+event.cancelable);
    }
    function f9(){
        console.log("f9");
        console.log("Target "+event.target.id);
        event.preventDefault();
    }
</script>
</head>
<body>
    <div id="div1" onclick="f1()" style="background-color:
brown; color: aliceblue;padding:20px">
        This is div at level1
        <div id="div2" onclick="f2()" style="background-color:
burlywood;padding:20px">
            This is div at level2
            <p id="paragraph1" onclick="f3()"
style="background-color: appworkspace;padding:20px">
                <button id="button1" onclick="f4()"
style="background-color: beige;padding:20px">
                    Click
                </button>
                <br> ⓘ
                <a id ="anchor1"

```



```
f="http://www.rajeshpatkar.com" onclick="f9()">> Rajesh Patkar  
titute </a>  
        </p>  
    </div>  
</div>  
<script>  
  
document.getElementById("div1").addEventListener("click",f5,true)  
;  
  
document.getElementById("div2").addEventListener("click",f6,true)  
;  
  
document.getElementById("paragraph1").addEventListener("click",f7  
,true);  
  
document.getElementById("button1").addEventListener("click",f8,tr  
ue);  
    </script>  
    </body>  
</html>
```

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