# JavaScript Event Objects Cheat Sheet

## 1. Base Event Object (Event)

Common Properties:
- type, target, currentTarget, eventPhase, bubbles, cancelable, defaultPrevented, timeStamp, isTrusted
Methods: preventDefault(), stopPropagation(), stopImmediatePropagation()

Example:
```
element.addEventListener("click", function(event) {
  console.log(event.type); // "click"
  event.preventDefault();
});
```

## 2. MouseEvent

Used for: click, dblclick, mousedown, mouseup, mousemove, etc.
Properties: clientX, clientY, pageX, pageY, screenX, screenY, button, buttons, ctrlKey, shiftKey, altKey, metaKey, relatedTarget

Example:
```
element.addEventListener("click", function(event) {
  console.log(event.clientX, event.clientY);
});
```

## 3. KeyboardEvent

Used for: keydown, keyup
Properties: key, code, repeat, ctrlKey, shiftKey, altKey, metaKey

Example:
```
document.addEventListener("keydown", function(event) {
  console.log("Key pressed:", event.key);
});
```

## 4. FocusEvent

Used for: focus, blur, focusin, focusout
Property: relatedTarget

## 5. InputEvent

Used for: input, beforeinput
Properties: data, inputType, isComposing

Example:
```
input.addEventListener("input", function(e) {
  console.log("Changed:", e.data);
});
```

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## 6. Form Events

Includes: submit, change, input, invalid

Example (SubmitEvent):
```
form.addEventListener("submit", function(event) {
  event.preventDefault();
  console.log("Submitted by:", event.submitter);
});
```

## 7. TouchEvent

Used for mobile: touchstart, touchend, touchmove
Properties: touches, targetTouches, changedTouches, altKey, metaKey, ctrlKey, shiftKey

## 8. DragEvent

Used for: drag, dragstart, dragend, dragover, drop
Property: dataTransfer

## 9. ClipboardEvent

Used for: copy, cut, paste
Property: clipboardData

## 10. WheelEvent

Used for: wheel
Properties: deltaX, deltaY, deltaZ, deltaMode

## 11. PointerEvent

Used for: pointerdown, pointerup, pointermove, etc.
Properties: pointerId, pointerType, pressure, tiltX, tiltY, isPrimary

## 12. UIEvent

Used for: scroll, resize
Properties: detail, view

## 13. CompositionEvent

Used for IME input: compositionstart, compositionupdate, compositionend

## 14. AnimationEvent

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Used for: animationstart, animationend, animationiteration
Properties: animationName, elapsedTime, pseudoElement


## 15. TransitionEvent

Used for: transitionstart, transitionend, transitioncancel
Properties: propertyName, elapsedTime, pseudoElement


## 16. MessageEvent

Used in: postMessage, WebSockets, Service Workers
Properties: data, origin, lastEventId, source, ports


## 17. ErrorEvent

Used in: error event of window
Properties: message, filename, lineno, colno, error


## 18. CustomEvent

Create your own events with custom data.
Property: detail

Example:
```
const customEvent = new CustomEvent("myEvent", {
  detail: { userId: 123 }
});
element.dispatchEvent(customEvent);
```