

Simple Use Case: Adding Event Listeners

```
YAHOO.util.Event.addListener("myDiv", "click",
    fnCallback);
```

Adds the function `fnCallback` as a listener for the click event on an HTML element whose id attribute is `myDiv`.

Invocation (addListener)

```
YAHOO.util.Event.addListener(str | el ref | arr
    target[s], str event, fn callback[, obj
    associated object, b scope];
```

Arguments:

- (1) **Element or elements:** You may pass a single element or group of elements in an array; references may be id strings or direct element references.
- (2) **Event:** A string indicating the event ('click', 'keypress', etc.).
- (3) **Callback:** The function to be called when the event fires.
- (4) **Associated object:** Object to which your callback will have access; often the callback's parent object.
- (5) **Scope:** Boolean — if true, the callback runs in the scope of the associated object.

Event Utility Solutions

Using `onAvailable`:

```
fnCallback = function() { //will fire when element
    becomes available}
YAHOO.util.Event.onAvailable('myDiv', fnCallback);
```

Using Event's **convenience methods**:

```
fnCallback = function(e, obj) {
    myTarget = YAHOO.util.Event.getTarget(e, 1);
    //2nd argument tells Event to resolve text nodes
}
YAHOO.util.Event.addListener('myDiv', 'mouseover',
    fnCallback, obj);
```

Prevent the event's default behavior from proceeding:

```
YAHOO.util.Event.preventDefault(e);
```

Remove listener:

```
YAHOO.util.Event.removeListener('myDiv',
    'mouseover', fnCallback);
```

Dependencies

Event Utility requires the YAHOO Global Object.

Simple Use Case: Custom Event

```
myEvt = new YAHOO.util.CustomEvent("my event");
mySubscriber = function(type, args) {
    alert(args[0]); } //alerts the first argument
myEvt.subscribe(mySubscriber);
myEvt.fire("hello world");
```

Creates a new Custom Event instance and a subscriber function; the subscriber alerts the event's first argument, "hello world", when the event is fired.

Constructor (Custom Event)

```
YAHOO.util.CustomEvent(str event name[, obj scope object,
    b silent, int signature ]);
```

Arguments:

- (1) **Event name:** A string identifying the event.
- (2) **Scope object:** The default scope in which subscribers will run; can be overridden in subscribe method.
- (3) **Silent:** If true, hides event's activity from Logger when in debug mode.
- (4) **Argument signature:** `YAHOO.util.CustomEvent.LIST` by default — all arguments passed to handler in a single array. `.FLAT` can be specified to pass only the first argument.

Subscribing to a Custom Event

```
myEvt.subscribe(fn callback[, obj associated object, b
    scope]);
```

Arguments for subscribe:

- (1) **Callback:** The function to be called when the event fires.
- (2) **Associated object:** Object to which your callback will have access as an argument; often the callback's parent object.
- (3) **Scope:** Boolean — if true, the callback runs in the scope of the associated object.

Arguments received by your callback function:
When using the default argument signature (`YAHOO.util.CustomEvent.LIST`; see Constructor section above), your callback gets three arguments:

- (1) **Type:** The type of Custom Event, a string.
- (2) **Arguments:** All arguments passed in during `fire`, as an array.
- (3) **Associated object:** The associated object passed in during `subscribe`, if present.

```
myEvt.fire(arg1, arg2);
var myHandler = function(sType, aArgs, oObj) { /*aArgs=[arg1, arg2]*/};
myEvt.subscribe(myHandler, oObj);
```

When using the optional argument signature (`YAHOO.util.CustomEvent.FLAT`; see Constructor section above), your callback gets two arguments:

- (1) **Argument:** The first argument passed when the event is fired.
- (2) **Associated object:** Passed in during `subscribe`, if present.

```
myEvt.fire(arg1);
var myHandler = function(arg, oObj) { /*arg=arg1*/};
myEvt.subscribe(myHandler, oObj);
```

Event Utility Methods:

```
addListener(...) || on(...)
getCharCode(e)
getListeners(el [, type])
getPageX(e)
getPageY(e)
getRelatedTarget(e)
getTarget(e)
getTime(e)
getXY(e): returns array
    [pageX, pageY]
onAvailable(s id || el ref, fn
    callback, o obj, b scope)
onContentReady(s id || el
    ref, fn clbck, o obj, b scp)
onDOMReady(s id || el ref, fn
    callback, o obj, b scope)
preventDefault(e)
purgeElement(el [, recurse,
    type])
removeListener(...)
stopEvent(e): same as
    preventDefault plus
    stopPropagation
stopPropagation(e)
```

DOM Event Object Props & Methods:

```
altKey (b)
bubbles (b)
cancelable (b)
*charCode (i)
clientX (i)
clientY (i)
ctrlKey (b)
currentTarget (el)
eventPhase (i)
isChar (b)
keyCode (i)
metaKey (i)
*pageX (i)
*pageY (i)
*preventDefault()
*relatedTarget (el)
screenX (i)
screenY (i)
shiftKey (b)
*stopPropagation()
*target (el)
*timestamp (long)
type (s)
[ *use Event Utility method ]
```