

## Simple Use Case: Making an Element Draggable

```
myDDObj = new YAHOO.util.DD("myDiv");
Makes the HTML element whose id attribute is "myDiv" draggable.
```

## Constructor (YAHOO.util.DD, DDPProxy, DDTarget)

```
YAHOO.util.DD(str | el ref target[, str group name,
obj configuration]);
```

### Arguments:

- (1) **Element:** ID or elem. ref. of the element to make draggable; deferral is supported if the element is not yet on the page.
- (2) **Group Name:** An optional string indicating the DD group; DD objects only "interact with" other objects that share a group.
- (3) **Configuration:** An object containing name-value pairs, used to set any of the DD object's properties.

## Properties & Methods of YAHOO.util.DragDrop

### Properties:

available (b)  
 dragOnly (b)  
 useShim (b)  
 groups (ar)  
 id (s)  
 invalidHandle  
   Classes (s[ ])  
 invalidHandleIds  
   (obj)  
 isTarget (b)  
 maintainOffset (b)  
 padding (int[ ])  
 primaryButtonOnly  
   (b)  
 xTicks (int[ ])  
 yTicks (int[ ])

### Methods:

addInvalidHandle	removeInvalid
Class (s <i>cssClass</i> )	HandleId(s <i>id</i> )
addInvalidHandleId (s	removeInvalidHandle
<i>id</i> )	Type (s <i>tagName</i> )
addInvalidHandle	resetConstraints()
Type (s <i>tagName</i> )	setDragElId(s <i>id</i> )
addToGroup (s	setHandleElId (s <i>id</i> )
<i>groupName</i> )	setOuterHandleElId (s
clearTicks()	<i>id</i> )
clearConstraints()	setPadding(i <i>top</i> , i
getDragEl()	<i>right</i> , i <i>bottom</i> , i
getEl()	<i>left</i> )
isLocked()	setXConstraint(i <i>left</i> , i
lock()	<i>right</i> , i <i>tick size</i> )
removeFromGroup(	setYConstraint(i <i>up</i> , i
o <i>dd</i> , s <i>group</i> )	<i>down</i> , i <i>tick size</i> )
removeInvalid	unlock()
HandleClass(s	unreg()
<i>cssClass</i> )	

## Properties & Methods of YAHOO.util.DD & .DDProxy

Inherit from YAHOO.util.DragDrop and add the following:

<b>YAHOO.util.DD Properties:</b>	<b>YAHOO.util.DDProxy Properties:</b>
scroll (b)	centerFrame (b)
	resizeFrame (b)

## Interesting Moments in Drag & Drop

Moment	Point Mode	Intersect Mode	Event (e)
onMouseDown	e	e	mousedown
startDrag	x, y	x, y	n/a
onDrag	e	e	mousemove
onDragEnter	e, id	e, DDArray	mousemove
onDragOver	e, id	e, DDArray	mousemove
onDragOut	e, id	e, DDArray	mousemove
onDragDrop	e, id	e, DDArray	mouseup
onInvalidDrop	e	e	mouseup
endDrag	e	e	mouseup
onMouseUp	e	e	mouseup

These "moments" are exposed as events on your DD instances; they are methods of YAHOO.util.DragDrop. The table above identifies the arguments passed to these methods in Point and Intersect modes.

## Solutions

**Add a drag handle** to an existing DD object:

```
myDDObj.setHandleElId('myDragHandle');
```

**Set the "padding" or "forgiveness zone"** of a DD object:

```
myDDObj.setPadding(20, 30, 20, 30); //units are
pixels, top/rt/bt/left
```

**Get the 'best match'** from an onDragDrop event in Intersect Mode where the dragged element is over more than one target:

```
myDDObj.onDragDrop = function(e, DDArray) {
  oDDBestMatch =
    YAHOO.util.DragDropMgr.getBestMatch(DDArray); }
```

**Override an interesting moment method** for a DD object instance:

```
myDDObj = new YAHOO.util.DD("myDiv");
myDDObj.startDrag = function(x,y) {
  this.iStartX = x; this.iStartY = y;
}
```

**Change the look and feel of the proxy element** at the start of a drag event using YAHOO.util.DDProxy:

```
myDDObj.startDrag(x,y) {
  YAHOO.util.Dom.addClass(this.getDragEl(),
    "myCSSClass"); }
```

**Lock Drag and Drop** across the whole page:

```
YAHOO.util.DragDropMgr.lock();
```

**Switch to Intersect Mode:**

```
YAHOO.util.DragDropMgr.mode =
  YAHOO.util.DragDropMgr.INTERSECT;
```

## Drag & Drop Manager:

### Properties

**clickPixelThresh** (i)  
**clickTimeThresh** (i)  
**useShim** (b)  
**mode** either  
   YAHOO.util.DragDropMgr.POI  
   NT or .INTERSECT  
**preventDefault** (b)  
**stopPropagation** (b)  
**useCache** (b)

## Drag & Drop Manager:

### Methods

*oDD*=instance of DragDrop object

**getBestMatch**(a [oDDs])  
**getDDById**(s *id*)  
**getLocation**(oDD)  
**getRelated**(oDD, b *targets*  
   only)  
**isDragDrop**(s *id*)  
**isHandle**(s *DDId*, s  
   *HandleId*)  
**isLegalTarget**(oDD, oDD  
   *target*)  
**isLocked**()  
**lock**()  
**refreshCache**()  
**swapNode**()  
**unlock**()

**\*Note:** YAHOO.util.DragDropMgr is a singleton; changes made to its properties (such as locking or unlocking) affect Drag and Drop globally throughout a page.

## Dependencies

Drag & Drop  
 requires the YAHOO  
 object, DOM, and  
 Event.