



# Drag and Drop API

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element can be dragged and dropped.



Is image into the rectangle.

## Drag and Drop

Drag and drop is a very common feature. It is when you "grab" an object and drag it to a different location.

## Browser Support

The numbers in the table specify the first browser version that fully supports Drag and Drop.

API					
Drag and	4.0	9.0	3.5	6.0	12.0



# HTML Drag and Drop Example

The example below is a simple drag and drop example:

## Example

```
<!DOCTYPE HTML>
<html>
<head>
<script>
function allowDrop(ev) {
    ev.preventDefault();
}

function drag(ev) {
    ev.dataTransfer.setData("text", ev.target.id);
}

function drop(ev) {
    ev.preventDefault();
    var data = ev.dataTransfer.getData("text");
    ev.target.appendChild(document.getElementById(data));
}
</script>
</head>
<body>

<div id="div1" ondrop="drop(event)" ondragover="allowDrop(event)"></div>



</body>
</html>
```

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It might seem complicated, but lets go through all the different parts of a drag and drop event.



## Make an Element Draggable

First of all: To make an element draggable, set the **draggable** attribute to true:

```
<img draggable="true">
```

## What to Drag - ondragstart and setData()

Then, specify what should happen when the element is dragged.

In the example above, the **ondragstart** attribute calls a function, `drag(event)`, that specifies what data to be dragged.

The **`dataTransfer.setData()`** method sets the data type and the value of the dragged data:

```
function drag(ev) {  
  ev.dataTransfer.setData("text", ev.target.id);  
}
```

In this case, the data type is "text" and the value is the id of the draggable element ("drag1").

## Where to Drop - ondragover

The **ondragover** event specifies where the dragged data can be dropped.

By default, data/elements cannot be dropped in other elements. To allow a drop, we must prevent the default handling of the element.

This is done by calling the **`event.preventDefault()`** method for the **ondragover** event:

```
event.preventDefault()
```



# Do the Drop - ondrop

When the dragged data is dropped, a drop event occurs.

In the example above, the ondrop attribute calls a function, drop(event):

```
function drop(ev) {  
  ev.preventDefault();  
  var data = ev.dataTransfer.getData("text");  
  ev.target.appendChild(document.getElementById(data));  
}
```

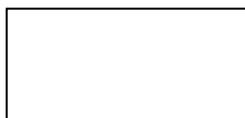
Code explained:

- Call preventDefault() to prevent the browser default handling of the data (default is open as link on drop)
- Get the dragged data with the dataTransfer.getData() method. This method will return any data that was set to the same type in the setData() method
- The dragged data is the id of the dragged element ("drag1")
- Append the dragged element into the drop element

## More Examples

### Example

How to drag (and drop) an image back and forth between two <div> elements:



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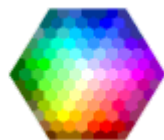
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