More feedback using thedropEffect property: change the cursor shape

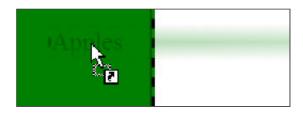
It is possible to change the cursor shape during the drag process. The cursor will turn into a "copy", "move" or "link" icon, depending on the semantic of your drag and drop, when you enter a drop zone during a drag. For example, if you "copy" a fruit into the drop zone, like in the previous example, a "copy" cursor like the one below would be appropriate:



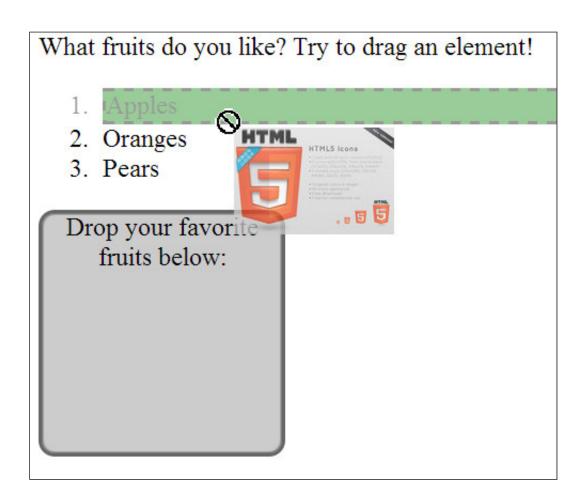
If you are "moving" objects, this style of cursor would be appropriate:



And if you are making a "link" or a "shortcut", a cursor would be looking like this:



You can also use any custom image/icon you like:



To give this visual feedback, we use the effectAllowed anddropEffect properties of the dataTransfer object. To set one of the possible predefined cursors, we allow an effect in thedragstart handler, and we set the effect (to "move", "copy", etc.) in the dragEnter or dragOver handler.

Here is an extract of the code we can add to the example we saw earlier:

```
function dragStartHandler(event) {
    // Allow a "copy" cursor effect
    event.dataTransfer.effectAllowed ='copy';
    ...
}
```

And here is where we can set the cursor to a permitted value:

```
function dragEnterHandler(event) {
```

```
// change the cursor shape to a "+"
event.dataTransfer.dropEffect = 'copy';
...
}
```

To set a custom image, we also do the following in the dragstarthandler:

```
function dragStartHandler(event) {
    // allowed cursor effects
    event.dataTransfer.effectAllowed = 'copy';
    // Load and create an image
    var dragIcon =document.createElement('img');
    dragIcon.src = 'anImage.png';
    dragIcon.width = 100;
    // set the cursor to this image, with an offset in X, Y
    event.dataTransfer.setDragImage(dragIcon,-10, -10);
    ...
}
```

COMPLETE ONLINE EXAMPLE

Here is the previous example (with apples, oranges, etc) that sets a "copy" cursor and a custom image. Try it in your browser below (start to drag and wait a few seconds for the image to be loaded. You might have to try twice before it works) or play with it at CodePen:



What fruits do you like? Try to drag an element!

- 1. Apples
- 2. Oranges
- 3. Pears



Here are the various possible values for the cursor effects (your browser will not necessarily support all of these; we noticed that copyMove, etc. had no effect with Chrome, for example). The values of "move", "copy", and "link" are widely supported.

All possible values for dropEffect and effectAllowed:

- dataTransfer.effectAllowed can be set to the following Values: none, copy, copyLink, copyMove, link, linkMove, move, all, and uninitialized.
- dataTransfer.dropEffect can take on one of the following values: none, copy, link, move.