

Drag & Drop

Introduction

- ❖ Using the Draggables API we can transform any element into something that our visitors will be able to pick with the mouse and drag all over around the page.
- ❖ Using the Droppables API we can define a specific region of our page or a specific container for our users to drop the draggables on to.

Sample

```
<!DOCTYPE html>
<html>
<head>
  <link type="text/css"
    href="http://jqueryui.com/latest/themes/base/ui.all.css"
    rel="stylesheet" />
  <script type="text/javascript"
    src="http://jqueryui.com/latest/jquery-1.3.2.js">
</script>
  <script type="text/javascript"
    src="http://jqueryui.com/latest/ui/ui.core.js">
</script>
  <script type="text/javascript"
    src="http://jqueryui.com/latest/ui/ui.draggable.js">
</script>
  <style type="text/css">
    #draggable_a { width: 100px; height: 100px; background: orange; }
    #draggable_b { width: 100px; height: 100px; background: red; }
    #draggable_c { width: 100px; height: 100px; background: blue; }
  </style>
```

Sample

```
<script type="text/javascript">
$(document).ready(function() {
    $("#draggable_a").draggable();
});
$(document).ready(function() {
    $("#draggable_b").draggable();
});
$(document).ready(function() {
    $("#draggable_c").draggable();
});
</script>
</head>

<body>
<div id="draggable_a"></div>
<div id="draggable_b"></div>
<div id="draggable_c"></div>
</body>

</html>
```

Customization

- ❖ We can configure our drag-able and control over its behavior.
- ❖ Using the `handle` property we can define a region which can be used to drag the object.
- ❖ Using the `container` property we can define the region where the object can be dragged. It won't be possible to drag the object outside of that region.

Customization

- ❖ Using the `drag`, `start` and `stop` properties we can set callback functions to be called when the object is dragged, starts it dragging and when the dragging stops.
- ❖ The `droppable` component allows us to set a region where the draggable elements can be dropped.

Sample

```
<!DOCTYPE html>
<html>
<head>

  <link type="text/css"
        href="http://jqueryui.com/latest/themes/base/ui.all.css"
        rel="stylesheet" />

  <script type="text/javascript"
          src="http://jqueryui.com/latest/jquery-1.3.2.js">
  </script>

  <script type="text/javascript"
          src="http://jqueryui.com/latest/ui/ui.core.js">
  </script>

  <script type="text/javascript"
          src="http://jqueryui.com/latest/ui/ui.draggable.js">
  </script>

  <script type="text/javascript"
          src="http://jqueryui.com/latest/ui/ui.droppable.js">
  </script>
```

Sample

```
<style type="text/css">
  #draggable_a
  {
    width: 50px;
    height: 50px;
    background: orange;
    padding: 10px;
  }
  #droppable_a
  {
    position: absolute;
    left: 400px;
    top: 100;
    width: 125px;
    height: 125px;
    background: black;
    color: white;
    padding: 10px;
  }
</style>
```


Sample

```
<script type="text/javascript">
  $(document).ready(function()
  {
    $("#draggable_a").draggable();
    $("#droppable_a").droppable(
      {
        drop: function()
        {
          alert('excellent!');
        }
      }
    );
  });
</script>
</head>

<body>
  <div id="droppable_a">Drag Here</div>
  <div id="draggable_a">Drag</div>
</body>

</html>
```

Sample

