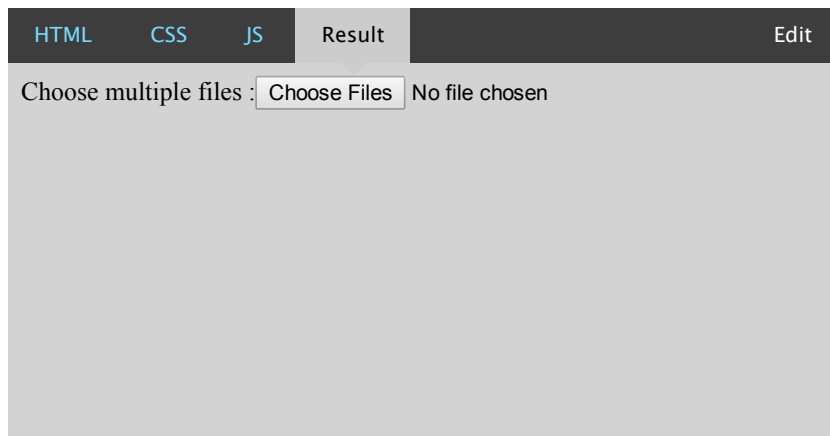


Drag and drop images with thumbnail previews

This time, let's reuse the `readFilesAndDisplayPreview()` method we saw in the File API chapter in the HTML5 Part 1 course.

We have reproduced the example here - look at the source code to refresh your memory (click on the JS tab or [look at the example at CodePen](#)).

Click the "open file" button (an `<input type="file">` element), select one or more images -- you should see the image thumbnails displayed in the HTML document:



Source code extract (the part that reads the image file content and displays the thumbnails):

```
function readFilesAndDisplayPreview(files) {  
    // Loop through the FileList and render image files  
    // as thumbnails.  
    for (var i = 0, f; f = files[i]; i++) {  
        // Only process image files.  
        if (!f.type.match('image.*')) {  
            continue;  
        }  
11.    var reader = new FileReader();  
        //capture the file information.  
        reader.onload = function(e) {  
            // Render thumbnail.  
            var span =document.createElement('span');  
            span.innerHTML = "<img class='thumb' src='" +  
                e.target.result +"'/>";  
            document.getElementById('list').insertBefore(span, null);  
        };  
22.    // Read the image file as a data URL. Will trigger  
23.    // a call to the onload callback above  
24.    // only once the image is completely loaded  
        reader.readAsDataURL(f);  
    }  
}
```

```
}
```

At *line 19*, we insert the `` element that has been created and initialized with the `dataURL` of the image file, into a list of `id "list"`.

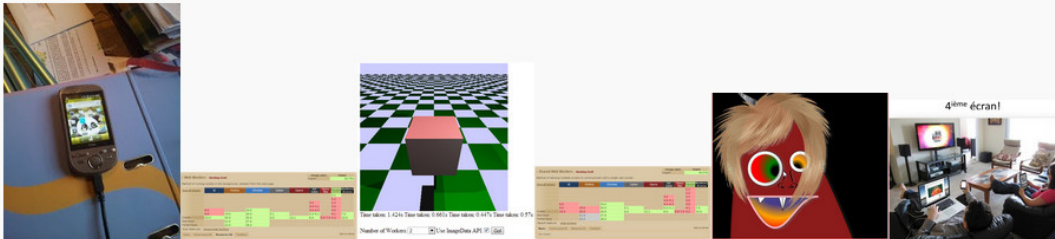
So, let's add this method to the first example, which displays file details once dropped, and also add an `<output id="list"></output>` to the HTML of this example.

COMPLETE EXAMPLE OF DRAG AND DROP + THUMBNAILS OF IMAGES

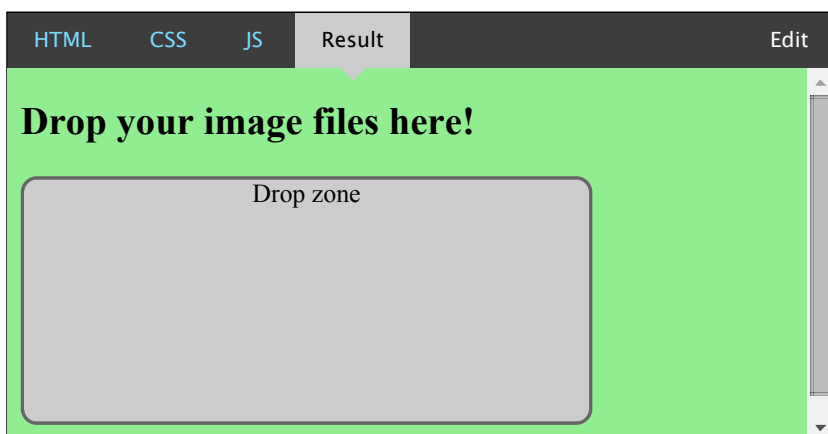
Drop your files here!

Drop zone

1. DedicatedWebWorkers.jpg
2. IMG_20130308_122239.jpg
3. raytracer.jpg
4. SharedWebWorkersSupport.jpg
5. Snap27.jpg
6. Snap41.jpg



Try it below in your browser (drag'n'drop image files in the drop zone) or play with it at [CodePen](#):



Complete source code:

```
<!DOCTYPE html>  
<html lang="en">
```

```

<head>
  <style>
    div {
      height: 150px;
      width: 350px;
      border: 2px solid #666666;
      background-color: #ccc;
10.      margin-right: 5px;
      border-radius: 10px;
      box-shadow: inset 0 0 3px #000;
      text-align: center;
      cursor: move;
    }
    .dragged {
      border: 2px dashed #000;
      background-color: green;
20.    }
    .draggedOver {
      border: 2px dashed #000;
      background-color: green;
    }
  </style>
  <script>
    function dragLeaveHandler(event) {
30.      console.log("drag leave");
      // Set style of drop zone to default
      event.target.classList.remove('draggedOver');
    }
    function dragEnterHandler(event) {
      console.log("Drag enter");
      // Show some visual feedback
      event.target.classList.add('draggedOver');
    }
40.
    function dragOverHandler(event) {
      //console.log("Drag over a droppable zone");
      // Do not propagate the event
      event.stopPropagation();
      // Prevent default behavior, in particular when we drop images or links
      event.preventDefault();
    }
    function dropHandler(event) {
50.      console.log('drop event');
      // Do not propagate the event
      event.stopPropagation();
      // Prevent default behavior, in particular when we drop images or links
      event.preventDefault();
      // reset the visual look of the drop zone to default
      event.target.classList.remove('draggedOver');
60.
      // get the files from the clipboard
      var files =event.dataTransfer.files;
      var filesLen = files.length;

```

```

        var filenames = "";
        // iterate on the files, get details using the file API
        // Display file names in a list.
        for(var i = 0 ; i < filesLen ; i++){
            filenames += '\n' +files[i].name;
70.         // Create a li, set its value to a file name, add it to the ol
            var li =document.createElement('li');
            li.textContent = files[i].name;
            document.querySelector("#droppedFiles").appendChild(li);
        }
        console.log(files.length + ' file(s) have been dropped:\n' + filenames);
        readFilesAndDisplayPreview(files);
    }
80.     function readFilesAndDisplayPreview(files) {
        // Loop through the FileList and render image files as thumbnails.
        for (var i = 0, f; f = files[i];i++) {
            // Only process image files.
            if (!f.type.match('image.*')) {
                continue;
            }
            var reader = new FileReader();
90.
            //capture the file information.
            reader.onload = function(e) {
                // Render thumbnail.
                var span =document.createElement('span');
                span.innerHTML = "<img class='thumb' width='100'
src='" +e.target.result + "'/>";
                document.getElementById('list').insertBefore(span, null);
            };
            // Read the image file as a data URL. Will trigger the call to the above
            // callback when
            // the image file is completely loaded
101.         reader.readAsDataURL(f);
        }
    }
</script>
</head>
<body>
<h2>Drop your files here!</h2>
<div id="droppableZone"ondragenter="dragEnterHandler(event)"ondrop="dropHandler(event)"
        ondragover="dragOverHandler(event)"
        ondragleave="dragLeaveHandler(event)">
    Drop zone
    <ol id="droppedFiles"></ol>
112. </div>
    <br/>
    <output id="list"></output>
</body>
</html>

```

Above, we added the `readFilesAndDisplayPreview()` method we saw earlier. We called it at the end of

the `drop` handler (*line 77*), and we added the `<output>` element that will contain the `` elements corresponding to the thumbnails (*line 114*).