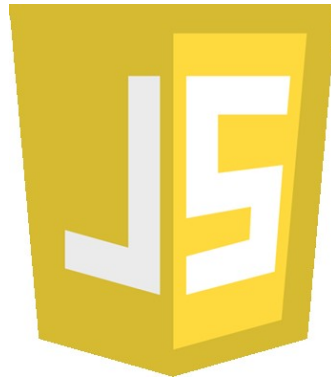# Javascript Training

Case 3: Structurering bestanden

Case 3

Inhoud

▶ Javascript hell

▶ Opsplitsing bestanden

▶ Voordelen / nadelen

Atos

Case 3

JavaScript Hell

Main.js

```javascript
var source = "/some/where/on/filesystem";

fs.readdir(source, function(err, files) {
    if (err) {
        console.log('Error finding files: ' + err)
    } else {
        files.forEach(function(filename, fileIndex) {
            console.log(filename)
            graphicsMagick(source + filename).size(function(err, values) {
                if (err) {
                    console.log('Error identifying file size: ' + err)
                } else {
                    aspect = (values.width / values.height);
                    var widths = [100, 200, 300];
                    widths.forEach(function(width, widthIndex) {
                        height = Math.round(width / aspect)
                        console.log('Resizing ' + filename + 'to ' + width + 'x' + height)
                        this.resize(width, height).write(outputFileLocation, function(err) {
                            if (err) console.log('Error writing file: ' + err)
                        })
                    })
                }
            })
        })
    }
})
```

Case 3

Main.js

```javascript
var source = "/some/where/on/filesystem";

fs.readdir(source, function(err, files) {
    if (err) {
        console.log('Error finding files: ' + err)
    } else {
        var targetWidths = [100, 200, 300];
        resizeFiles(files, targetWidths);
    }
});

function resizeFiles(files, targetWidths) {

    files.forEach(function(filename) {
        resizeFile(filename, targetWidths);
    });
}

function resizeFile(fileName, targetWidths) {
    graphicsMagick(file).size(function(err, values) {
        if (err) {
            console.log('Error identifying file size: ' + err)
        } else {
            resizeFile(source + fileName,
                    source + fileName + "_resized",
                    values.width,
                    values.height,
                    targetWidths)
        }
    });
}

function resizeFile(inputFileLocation, outputFileLocation, imageWidth, imageHeight, targetWidths) {
    var aspect = (imageWidth / imageHeight)
    targetWidths.forEach(function(targetWidth) {
        var targetHeight = Math.round(targetWidth / aspect)

        console.log('Resizing ' + file + 'to ' + targetWidth + 'x' + targetHeight)

        graphicsMagick(inputFileLocation).resize(targetWidth, targetHeight).write(outputFileLocation, function(err) {
            if (err) console.log('Error writing file: ' + err)
        })
    });
}
```


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Case 3

Opsplitsing bestanden

FileResizeUtils.js

```javascript
function resizeFiles(files, targetWidths) {

    files.forEach(function(filename) {
        resizeFile(filename, targetWidths);
    });
}

function resizeFile(fileName, targetWidths) {
    graphicsMagick(file).size(function(err, values) {
        if (err) {
            console.log('Error identifying file size: ' + err)
        } else {
            resizeFile(source + fileName,
                       source + fileName + "_resized",
                       values.width,
                       values.height,
                       targetWidths)
        }
    });
}

function resizeFile(inputFileLocation, outputFileLocation, imageWidth, imageHeight, targetWidths) {
    var aspect = (imageWidth / imageHeight)
    targetWidths.forEach(function(targetWidth) {
        var targetHeight = Math.round(targetWidth / aspect)

        console.log('Resizing ' + file + 'to ' + targetWidth + 'x' + targetHeight)

        graphicsMagick(inputFileLocation).resize(targetWidth, targetHeight).write(outputFileLocation, function(err) {
            if (err) console.log('Error writing file: ' + err)
        })
    });
}
```

Main.js

```javascript
var source = "/some/where/on/filesystem";

fs.readdir(source, function(err, files) {
    if (err) {
        console.log('Error finding files: ' + err)
    } else {
        var targetWidths = [100, 200, 300];
        resizeFiles(files, targetWidths);
    }
});
```

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Case 3

Opsplitsing bestanden

```html
<script type="text/javascript" src="FileResizeUtils.js"></script>

<script type="text/javascript" src="LogUtil.js"></script>

<script type="text/javascript" src="Settings.js"></script>

<script type="text/javascript" src="ListFileView.js"></script>

<script type="text/javascript" src="LoginView.js"></script>

<script type="text/javascript" src="Main.js"></script>
```

Atos