

Extracting pages from a PDF document and saving them as separate image files, JavaScript edition with async

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Last time, we converted the JavaScript version of the [PDF Document](#) sample program so that it saved the pages to disk as image files. The asynchronous behavior was expressed via Promises. Today we'll use the `async` and `await` keywords which didn't make ECMAScript 7, but may make it into ECMAScript 8. Support for it [arrived in Microsoft Edge as an experimental feature back in 2015](#).

```

async function viewPage() {
    WinJS.log && WinJS.log("", "sample", "status");

    var pageNumber = parseInt(pageNumberBox.value, 10);
    if (isNaN(pageNumber) || (pageNumber < 1) ||
        (pageNumber > pdfDocument.pageCount)) {
        WinJS.log && WinJS.log("Invalid page number.", "sample", "error");
        return;
    }

    output.src = "";
    progressControl.style.display = "block";

    // Convert from 1-based page number to 0-based page index.
    var pageIndex = pageNumber - 1;

    var page = pdfDocument.getPage(pageIndex);

    var picker = new Windows.Storage.Pickers.FileSavePicker();
    picker.fileTypeChoices["PNG image2"] = [".png"];
    var outfile = await picker.pickSaveFileAsync();
    if (outfile) {
        var transaction = await outfile.openTransactedWriteAsync();
        var options = new PdfPageRenderOptions();
        options.destinationHeight = page.size.height * 2;
        options.destinationWidth = page.size.width * 2;
        await page.renderToStreamAsync(transaction.stream, options);
        transaction.close();
    }
    page.close();
    progressControl.style.display = "none";
}

```

The `async` and `await` keywords are analogous to their C# counterparts. Declaring a function as `async` causes it to return a Promise whose result is the nominal type of the function. Inside an `async` function, you can use the `await` keyword to cause the continuation to be connected to the resolution of the Promise you are awaiting.

There's not much interesting to discuss here; it's a straightforward translation of the C# sample. Note that JavaScript doesn't have a `using` keyword, so we have to `close()` the closable objects manually.

Next time, we'll move on to C++/CX.

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