exportPublishedToPdf

Export Matlab generated HTML documentation (publish) to pdf-files and combine them into a latex index file ready compile to pdf manual. This script works on unix sytems only or needs to be adjusted for windows systems for library path and wkhtmltopdf binary path.

Contents

Requirements

- Other m-files required: src/util/removeFilesFromDir.m
- Subfunctions: wkhtmltopdf (shell), pdflatex (shell)
- MAT-files required: data/config.mat

See Also

- generateConfigMat
- system
- wkhtmltopdf
- publishProjectFilesToHTML
- Documentation Workflow

Start Exporting Script, Clean Up and Load Config

At first clean up junk from workspace and clear prompt for new output. Set project root path to create absolute file path with fullfile function. Load absolute path variables and publishing options from config.mat

```
disp('Workspace cleaned up ...');
clearvars;
clc;
disp('Load configuration ...');
try
    load('config.mat', 'PathVariables');
catch ME
    rethrow(ME);
end
```

Define Manual TOC

The maual toc must be in the same order as in helptoc.xml in the publish html folder. The toc is used to generate a latex file to include for appendices.

Scan for HTML Files

Scan for all published HTML files in the project publish directory.

```
disp('Scan for published files ...');
HTML = dir(fullfile(PathVariables.publishHtmlPath, '*.html'));
```

Export HTML to Pdf

Export found HTML files to Pdf files. Each file gets its own Pdf represenstation. Filename is kept with pdf

extension. Write files into Manual folder under latex subdirectory in docs path. Using wkhtmltopdf shell application. Get filename, add pdf extension new path to file. Create shell string to execute with system command. Get current library path (Matlab) and change it to system library path to execute wkhtmltopdf after that restor library back to Matlab.

```
disp('Change local library path to system path ...');
matlabLibPath = getenv('LD_LIBRARY_PATH');
systemLibPath = '/usr/lib/x86_64-linux-gnu';
setenv('LD_LIBRARY_PATH', systemLibPath);

disp('Export published HTML to Pdf ...');
fprintf('Source: %s\n', HTML(1).folder);
fprintf('Destination: %s\n', PathVariables.exportPublishPath);
for fhtml = HTML'
    disp(fhtml.name);
    [~, fName, ~] = fileparts(fhtml.name);
    sourcePath = fullfile(fhtml.folder, fhtml.name);
    destinationPath = fullfile(PathVariables.exportPublishPath, [fName '.pdf']);
    cmdStr = join(["wkhtmltopdf", ...
        "-B 27mm", ...
        "-L 20mm", ...
        "-R 20mm", ...
        "-T 27mm", ...
        ..."--window-status finished", ...
        ..."--no-stop-slow-scripts", ...
        "--javascript-delay 1000", ...
        "%s %s"]);
    shellStr = sprintf(cmdStr, sourcePath, destinationPath);
    try
        [status, cmdout] = system(shellStr);
        % disp(cmdout);
        if status ~= 0
            error('Export failure.');
        end
    catch ME
        setenv('LD_LIBRARY_PATH', matlabLibPath);
        disp(cmdout);
        rethrow(ME)
    end
end

disp('Restor local library path ...');
setenv('LD_LIBRARY_PATH', matlabLibPath);
```

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