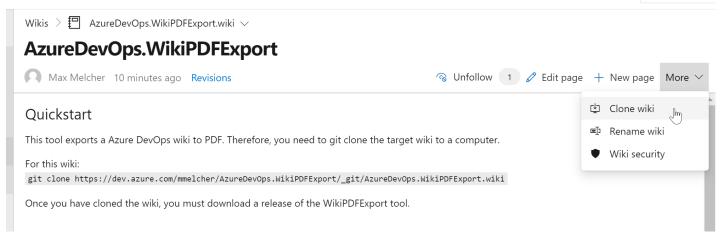
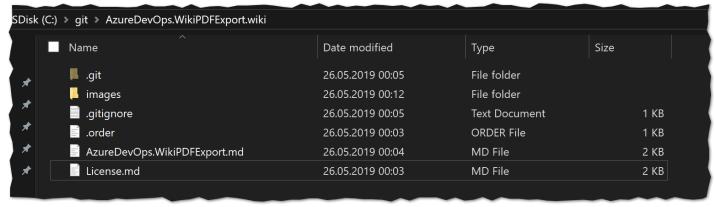
# AzureDevOps.WikiPDFExport

#### Quickstart

This tool exports a Azure DevOps wiki as PDF. Therefore, you need to git clone the target wiki to a computer. You can get the clone link of the wiki in the top right of the wiki homepage:



To clone this wiki, use the following command: git clone https://dev.azure.com/mmelcher/AzureDevOps.WikiPDFExport/ git/AzureDevOps.WikiPDFExport.wiki



Once you have cloned the wiki, you must download the Azure DevOps WikiPDFExport tool, azuredevops-export-wiki.exe (~40MB)

You can drop it right into the cloned folder and execute it there. Launched without parameters, the tool will detect all wiki files next to it and convert it to a PDF called export pdf right next to it. Similar to this pdf.

If you need more control over the output, please see the Configuration Options below or by launching the tool with --help parameter.

## i Features

The tool currently supports the following:

- Export all wiki pages (and sub pages) in the correct order including styles and formatting.
   Includes pictures (remote and relative urts)
   Creates PDF bookmarks to all pages for easier navigation within the PDF
   If you link to other wiki pages, the link in the PDF will work, too. Anchor tags supported, see #license or \_/TEST%2DPAGE.md#Mermaid)
   Everything self-contained. Download the .exe file, run it, done.
- Tool can be used as part of a build, see <u>Build Task</u>
  It is fast. A PDF with 160 pages is created in less than a second.

  Emoticons and Smileys are supported 

  | |

- Mermaid supported

  Workitems can be referenced and will be included in the pdf as link with the current status, e.g. #7.

  Math/Latex formulas are rendered

## □ Requirements

The tool is developed as .NET Core 2.2 application, therefore you need to have the runtime installed. Download is available here.

### □ Download

The download is available here

# ☐ Configuration Options

Help - outputs the parameters that can be used

The path to the export file including the filename, e.g. c:\export.pdf

The current date will be added to the footer

-b / --breakPage

For every wiki page a new page in the PDF will be created

For every wiki page create a heading in the PDF. If the file is called Home.md a new #Home-heading is added to PDF.

Path to a single markdown file to convert to PDF. If you want to write your changelog in the wiki, this is your parameter to only convert a single page. -p parameter is required, too.

Path to the wiki folder. If not provided, the current folder of the executable is used.

Verbose mode. Logging will added to the console window

-d / --debug

Debug mode. Logs tons of stuff and even exports the intermediate html file

Add path of the file to the header

-footer-left, --footer-center, --footer-right, --header-left, --header-center, --header-right

Headers and footers can be added to the document by the -header\* and -footer\* arguments respectfully. In header and footer text string supplied to e.g. -header-left, the following variables will be substituted.

- [page] Replaced by the number of the pages currently being printed [frompage] Replaced by the number of the first page to be printed [topage] Replaced by the number of the last page to be printed [webpage] Replaced by the URL of the page being printed [section] Replaced by the name of the current section [subsection] Replaced by the name of the current subsection [date] Replaced by the current date in system local format [isodate] Replaced by the current date in ISO 8601 extended format [title] Replaced by the current the in system local format [title] Replaced by the current the principle of the of the off the current caped by the title of the off the current caped by the titles.

- [title] Replaced by the title of the of the current page object (doctitle] Replaced by the title of the output document (sitepage] Replaced by the number of the page in the current site being converted [sitepages] Replaced by the number of pages in the current site being converted

### □ Limitations

So far the following limitations are known:

- TOC (Table of Contents) tag is not supported and will exported as tag
   The tool, sometimes shows an error "Qt: Could not initialize OLE (error 80010106)" this can be ignored.
   If headers are not formatted property (#header instead of # Header), they are rendered incorrectly. I might fix that in the future.
   The tool lacks proper testing because I only have two wikis available

### License

See <u>license</u>

### □Telemetry

The tool uses Application Insights for basic telemetry:

- The duration of the export and the count of wiki pages is tracked and submitted to Azure.
- In the case of an error, the exception is submitted.No wiki data/content is submitted.

In this tool uses open source libraries that do the actual work - I just combined them to get the export as PDF:

- CommandLineParser to parse the command line
   MarkDig to parse markdown files to HTML.
   DinkToPdf to export HTML to PDF
   dotnet-warp to release a self-contained exe file

# **TESTPAGE**

The following are tests for the export page

## Copy & Paste Picture



**Table of Contents** 

Video

## **Table Test**

**a b** 0 1

## Formular

\(e=mc^2\)

### Mention

@<7C0C20F7-3AB6-6232-8E80-E35152712AF5>

##Malformed header (no space!)

## Lists

- 1 Entry
- 3 Entry

## **Formats**

bold italic link code

## Mermaid

 $graph\ LR;\ A[Wiki\ supports\ Mermaid] \Longrightarrow B[Visit\ https://mermaidjs.github.io/\ for\ Mermaid\ syntax];$ 

**Large Pictures** 



Pictures with Space in Filename



Pictures with Width/Height



Pictures with Width only



Pictures with Height only



Picture as html



### Mathematical notation and characters

Both inline and block KaTeX notation is supported in wiki pages and pull requests. The following supported elements are included:

- Symbols
   Greek letters
   Mathematical operators
   Powers and indices
   Fractions and binomials
   Other KaTeX supported elements

To include mathematical notation, surround the mathematical notation with a \$ sign, for inline, and \$\$ for block, as shown in the following examples:

Greek letters

Example: Algebraic notation

Area of a circle is \(\pi r^2\)

And, the area of a triangle is:

\[ A\_{triangle}=\frac{1}{2}({b}\cdot\{h\}) \]

Algebraic notation

Example: Sums and Integrals

## **Build Task**

Using Azure DevOps WikiPDFExport as build task is straightforward.

- 1. Create a new build definition
- Git Source is "Other Git"
- Add the clone url to the wiki to the details and username / password if required
- Add the cione unto the wint to the second
   Ensure that the agent is a windows agent
   Add a powershell task with the following code:

#Download urt to the export tool \$\underset{urt}\$ = "https://dev.azure.com/mmelcher/8036eca1-fd9e-4c0f-8bef-646b32fbda0b/\_apis/git/repositories/e08d1ada-7794-4b89-a3ea-cb64a26683c3/ltems?path=%2Fazuredevops-export-wiki.exe&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptions%5D=0&versionDescriptor%5BversionOptionSversio

#filename of the tool \$output = "azuredevops-export-wiki.exe"

#download the file Invoke-WebRequest -Uri \$url -OutFile \$output

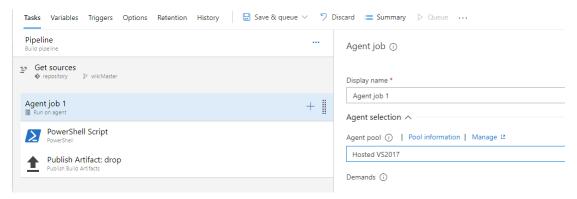
# #launch the tool - adjust the parameters if required

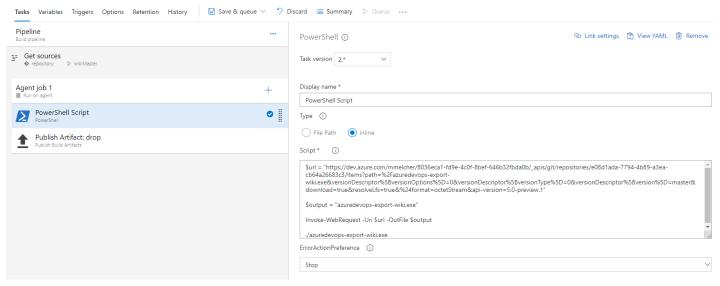
5. Add a second task to publish the PDF as build artifact.

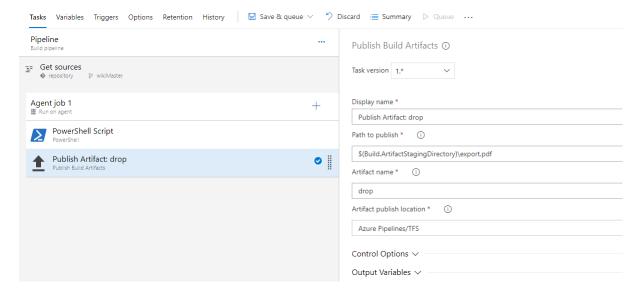
Once the build succeeds, you can download the PDF file from the build page or use it in a release.

#### **Pictures**

### Windows Agent







# License

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