**WWN Development Documents**

WWN is open-source, and programmers are invited to add features to it.   
  
The WWN development-documents are provided here to help with future development. Feel free contact me (the WWN author) for additional help.  
  
In creating WWN, I recorded my research and development notes in Word documents. Those documents are linked below, as WWN web-pages. (The Word-documents themselves are also in the WWN repo, mostly under docs\development-docs.)

I wrote the development-documents for my own use while creating WWN. But, much of that info should be useful for others, in enhancing WWN.

**Overview of the Development-Documents**

To create WWN I had to learn several new technologies (e.g., CSS) and tools (e.g., Beautiful Soup). The development-documents have links to the tutorials and reference documents that I found helpful, as well as notes for needed information.  
   
The development-documents also contain my notes from research, design and coding. These notes record critical info that was non-trivial to figure-out, and which I’d otherwise forget.

**The Development-Documents**

The documents’ file-names are listed below, but without the .docx extension.

* **WWN is implemented as a Python package.** Its modules and call-graph are described.
  + [$repo-contents](/software/www/WordWebNav/development-docs/$repo-contents.html) (1 page)
  + [$package-contents](/software/www/WordWebNav/development-docs/$package-contents.html) (1 page)
* **WWN’s input parameter-file is in YAML format.** YAML tools are used to verify it, and load it into a Python dictionary.
  + [WWN--input-parameter-file--YAML-use](/software/www/WordWebNav/development-docs/WWN--input-parameter-file--YAML-use.html) (2 pages)
* **For the WWN web-page, its frames and controls are implmented using CSS and JQuery.**
  + [web-page--structure--css--jquery](/software/www/WordWebNav/development-docs/web-page--structure--css--jquery.html) (13 pages)
  + [web-page--structure--css-tutorials](/software/www/WordWebNav/development-docs/web-page--structure--css-tutorials.html) (14 pages)
* **The WWN web-page is constructed using a Jinja2 template.** The Word HTML is parsed and edited using Beautiful Soup.
  + [web-page--construction--beautiful-soup--jinja](/software/www/WordWebNav/development-docs/web-page--construction--beautiful-soup--jinja.html) (13 pages)
* **The input Word-file is in Word’s HTML format.** WWN parses the file and modifies it. A navigation-pane is created from the Word table-of-contents. The Word HTML is searched for a set of known bugs, and the HTML is edited to fix them.
  + [web-page--html-tutorials](/software/www/WordWebNav/development-docs/web-page--html-tutorials.html) (9 pages)
  + [word-html--references-and-info](/software/www/WordWebNav/development-docs/word-html--references-and-info.html) (3 pages)
  + [word-html--table-of-contents](/software/www/WordWebNav/development-docs/word-html--table-of-contents.html) (9 pages)
  + [word-html--bugs-and-fixes](/software/www/WordWebNav/development-docs/word-html--bugs-and-fixes.html) (37 pages)
* **WWN testing**
  + [WWN--testing](/software/www/WordWebNav/development-docs/WWN--testing.html) (13 pages)
  + [WWN--testing--regression-tests.docx](/software/www/WordWebNav/development-docs/WWN--testing--regression-tests.html) (2 pages)