

DocUtils: A Documentation Utility Package

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Introduction

- **What this is NOT:**

- A proposed replacement for **doxygen**

- **What is it, then?**

- I have had good experience with docutils for generating PyTrilinos documentation web pages
- I will give a little overview
- I DO propose that docutils be added to the suite of standard tools for use by Trilinos developers



What is DocUtils?

- These documentation utilities are based on reStructuredText:
 - Formal markup language
 - Simplified, human-readable
 - ASCII: great for readme files, installation notes, change logs, etc.
- Conversion utilities for
 - HTML
 - LaTeX
 - New LaTeX
 - S5 (slideshow format)
 - XML
 - Pseudo XML
- DRY (don't repeat yourself)



What Does reStructuredText Support?

- Section titles
- Document titles
- Bold, italics, mono-spaced
- Paragraphs
- Block quotes
- Literal blocks
- Lists
 - Enumerated
 - Bulleted
 - Definition
- Tables
- Horizontal transition lines
- Hyperlinks
 - External
 - Internal
 - Implicit
- Footnotes
- Citations
- Comments
- More...

<http://docutils.sourceforge.net>



How Do I Use reStructuredText/DocUtils?

- PyTrilinos web pages

- Front page
- Overview
- FAQ
- Documentation pages (**doxygen** problematic for me)
 - Development
 - Release 7.0
 - Tutorials

- Automation

- ***_content.txt** files get converted to ***_content.html** files using **make**, which calls **rst2html.py**
- Both are stored in TrilinosWeb repository
- ***.html** file uses **php** to include ***_content.html**, so I get Trilinos header, sidebars and footer as usual



Examples
