



Amanzi Requirements Tracker

Daniel Topa

CCS-2: Computational Physics and Methods

dantopa@lanl.gov

2018-11-21

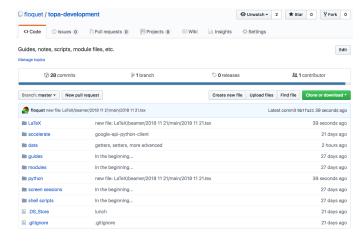


Progress Report Object Model Python Code

GitHub Completed Next Up Big Picture



GitHub Repo





Completed

- Object Model Basic
- Python object: Book()
- Writing to XLSX
- Forensics



Next Up

- Book attribute and methods
- Python object: chapter
- Python object: section
- ► Python module: simulate parsing



Primary Actions

- 1. Harvest (first parse of *.rst)
- 2. Process (full parse, load myBook)
- **3.** Publish (write XLSX)



Primary Actions: Details

- 1. Harvest (first parse of *.rst)
 - 1.1 Specify *.rst
 - 1.2 read().splitlines()
- 2. Process (full parse, load myBook)
- 3. Publish (write XLSX)



Components

- ► Book
- ▶ Book has chapters
- Chapter has sections
- Section has requirements
- ► Do Chapters have requirements?



Foundation: Book

- 1. chapter: Initial Conditions
 - 1.1 section: Assigned Regions
 - 1.2 section: Liquid Phase
 - 1.2.1 required: liquid_component
 - 1.2.2 optional: geochemistry_component
 - 1.3 section: Solid Phase
 - **1.3.1** required: geochemistry
 - 1.3.2 optional: mineral, geochemistry
- 2. chapter: Boundary Conditions
 - 2.1 section: Assigned Regions
 - **2.2** section: Liquid Phase
 - 2.3 section: Solid Phase







Boo

Boo







Object: Book