

# Electronic Thesis and Dissertation Validator

BY: CHRIS ROSLER, RORY  
MCLEAN, AND CAM ALBERGHINI



# Solution

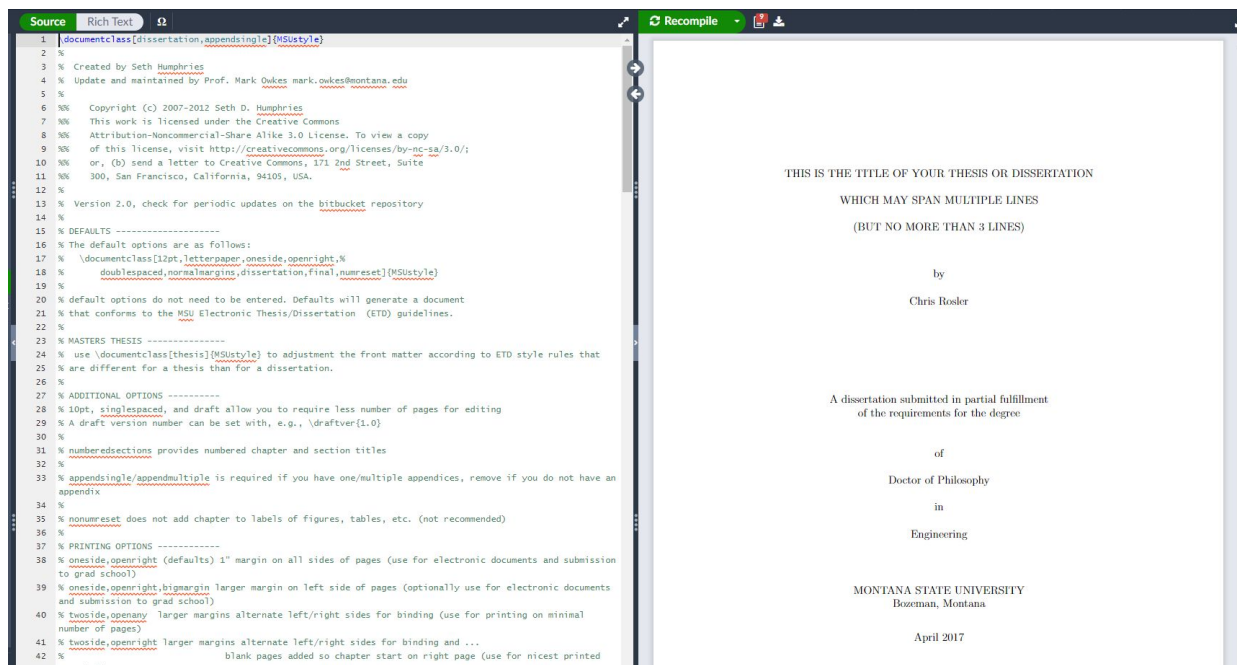
Before conversion to PDF, users have either a Tex or Docx file.

Latex Handling

[Overleaf. Online LaTeX Editor](#)

Docx

Zip File of XML



# Docx Overview

Students need their thesis and dissertation to be verified to ensure a uniform template is used before submitting

3 Sections:

Introduction


Body

Bibliography

# Demo

[ETD Validation \(etdvalidator.pythonanywhere.com\)](http://etdvalidator.pythonanywhere.com)

# Login, Password, Submission and Get Results Pages



Search pages & people

ETD Home

Formatting Information

Guidelines and Sample Pages

Standard Option

Manuscript Option

Accessibility

Templates

Video Tutorials for Word

Typist/Editor List

Submission Procedures

Approval and Publication

ETD FAQs

Validator Documentation

Validator Bug Reporting

ETD Formatting Information

The Graduate School / Electronic Theses and Dissertations / ETD Formatting Information

Step 1. Formatting

Step 2. Submission

Step 3. Approval

ETD Formatting Advisor:

Formatting Advisor | [gradformatting@montana.edu](mailto:gradformatting@montana.edu)

For questions on ETD formatting, submission, or publication, feel free to reach out to the Formatting Advisor. The Formatting Advisor can be communicated with through email. However, students are welcome to set up a virtual appointment as needed.

The Formatting Advisor with the Graduate School helps facilitate your ETD submission. The Formatting Advisor does not provide technical or editing support and will not format your ETD for you. It is the student's responsibility to create a professional document that conforms to the Graduate School's formatting guidelines. They will also notify students of any changes that need to be made for a document to be approved.

Formatting Guidelines and Sample Pages

The Graduate School

Montana State University

P.O. Box 172380

Bozeman, MT 59717-2380

Tel: (406) 994-4145

Toll Free: 1-800-255-7962

Fax: (406) 994-4753

Email: [gradschool@montana.edu](mailto:gradschool@montana.edu)

Location: 15A Montana Hall

Dean

Dr. Craig Optiva

Submission Portal

Validation Portal



Search pages & people

## Login-Thesis/Dissertation Validation Portal


**Graduate School ETD upload portal**

This web application is for current graduate students to validate their thesis or dissertation without submitting it to the formatting advisor. If you have questions regarding this process contact [gradformatting@montana.edu](mailto:gradformatting@montana.edu)

Password:

1234

Login



Search pages & people


## ETD Validator Submission

Please choose an Electronic Dissertation to submit. Only submit word files.

Choose File

Completed\_...ple\_ETD.docx

Submit




Search pages & people

## Electronic Dissertation Validator

Beta Release

Get Results



Search pages & people

## Login-Thesis/Dissertation Validation Portal

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Password:

1234

Login

# Good Results Page

Please check paragraph 199 for a typo  
The following words were detected , aestivum, n, mineralization, sameyear, nondestructively, finescale, l, cm, sitespecific, reflectance, triticum, agroecosystems,  
Please check paragraph 204 for a typo  
The following words were detected , rossel, n, ssurgo, tesfa, bestwick, bockheim, finescale, lilburne, odeh, kriging, cm,  
Please check paragraph 206 for a typo  
The following words were detected , grylls, n, mineralization, lilburne, philippot, overfertilization, biogeochemical, denitrification, odea,  
Please check paragraph 207 for a typo  
The following words were detected , n, nonleaching, meisinger, mineralization, nonfertilizer, widesweeping, lilburne, leachingsusceptible, lysimetry, volatilization, denitrification,  
Please check paragraph 208 for a typo  
The following words were detected , n, ncontaining, urease, semiarid, engel, benbi, ureasedriven, ammoniumbased, tabatabai, volatilization, amides, mineralization, nitrification, ammonification, twostep, brenner, agroecosystems, aminization, hydrolysis, protonated,  
Please check paragraph 209 for a typo  
The following words were detected , rengel, nitrification, mutert, schroder, cations, ammoniumbased, engel, uexkll, volatilization, agroecosystems,  
Please check paragraph 210 for a typo  
The following words were detected , nitriteoxidizing, acidifying, phototrophs, oxidoreductase, hydroxylamine, n, longheld, caranto, nitrification, comammox, kuypers, klotz, leininger, daims, ph, anoxygenic, kozlowski,  
Please check paragraph 211 for a typo  
The following words were detected , incubations, hydrolysis, n, mineralization, d, mineralizable, assimilatory, cooccur, franzluebbers, chitin, schomberg, threeday, glucosaminidase, tabatabai,  
Please check paragraph 212 for a typo  
The following words were detected , nintensive, wheatbased, n, zea, mineralization, kg, deintensified, galloway, ngp, l,  
Please check paragraph 213 for a typo  
The following words were detected , leguminous, bhattacharjee, n, medicago, pisum, medik, sativum, nfixing, culinaris, rosenblueth, dinitrogen, ngp, l, rhizobia, metalloenzyme, nitrogenase,  
Please check paragraph 214 for a typo  
The following words were detected , n, anantharaman, maier, energyintensive, dissimilatory, assimilatory, mackelprang, dinitrogen, denitrification, nloss, dissimilation, kuypers,  
Please check paragraph 215 for a typo  
The following words were detected strous, , tanimoto, cometabolic, n, hydroxylamine, spott, nitrification, salicylhydroxamic, dinitrogen, codenitrification, anammox, selbie, dissimilation, denitrification, kumon,  
Please check paragraph 218 for a typo  
The following words were detected , n, thapa, lilburne, nonlegume,  
Please check paragraph 219 for a typo  
The following words were detected , zentner, workloads, twoyear, mikkelsen, vs, urease, engel, volatilization,  
Please check paragraph 220 for a typo  
The following words were detected , zillmann, morari, n, bestwick, dampney, zillman, vazquezamabile, grylls,  
Please check paragraph 221 for a typo  
The following words were detected , n, mineralization, onfarm, agronomic, zillman, complementarity, grylls,  
Please check paragraph 222 for a typo  
The following words were detected , rossel, lowrelief, tesfa, wellestablished, ziadat, spectralbased, generalizability, geomorphological, vazquezamabile, ndvi, lacoste, topographicallycomplex, laborintensive,



# Bad Results Page

All title lines must be completely capitalized Date is formatted as month written out and first letter capitalized, then year

Missing by after copyright

Missing year

Please check paragraph 199 for a typo

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Please check paragraph 223 for a typo

The following words were detected , n, lowrelief, agroecosystem, mineralization, finescale, ndvi, agriculturalists, sitespecific,

# Typo Detection

We can expand the dictionary.





There are a lot of programs, we could implement it at a server level if that is necessary, using an ignore and web scraping tool.



# JamSpell and Syntax

Unnecessary Burden to the Server assuming they have experience writing

# Login Page



## LOGIN

Username:

7 characters, starts with a letter (e.g. a11b222)

Password:

☐ Don't Remember Login

Login

Trouble logging in?

[Reset your password](#)

[Contact your campus Help Desk.](#)

**Security Notice:**

Remember to log out and close your web browser when finished.

# Automated Testing

- Selenium on GitHub actions is not a viable testing method.
- Selenium is a viable option – Not with PythonAnywhere due to the billing method
- GitHub actions will not open a file.

# Modifications To Make

- Support for other versions of Word
- Dictionary Expansion

# What About Latex?

It doesn't make sense to check for formatting in something that guaranteedly enforces formatting.