

Read me for Proofreader 1.0

Scope and Why:

It is used for Word document only.

Spell Checker comes with the Word efficiently takes care of the individual misspelled word. Proofreader is for grammatical errors and nonsensical combination of words. These are frequently encountered in the setting of voice recognition and some errors could be persistent and recalcitrant to training.

Examples may include "The findings may suggest....", "Adenoma in situ (should be Melanoma in situ)", "Clinical inflammation (should be "Clinical information)", " truck eruption(should be "drug eruption)", etc..

Part 1. Getting the program

Step 1

got to <https://github.com/ije56/datasciencecoursera>

Step 2

Click on "proofreader1.exe"

Step 3

Click "View Raw"

Then you will be able to download the Proofreader1.exe file to your computer

Part 2. Using the program

When you use the program the first time, you may get some security warning, ignore that. It is safe to use.

Also, you will be asked to read the "Terms and Conditions". Basically it says that use at your own risk and the program is for demonstration purpose. I built the program by using the free version (Express version) of Microsoft Visual Studio 2015; demonstration is one of the usages allowable by Microsoft; therefore, I put in the Terms and Conditions accordingly.

You need to teach your program before it can actually work for you. Example of teaching:

If your document has the combination of "adenoma in situ", highlight it, click "Learn correction/warning" button, a larger box will pop up, showing the wrong text that you have highlighted. You need to enter the correct text in the second box, then click enter. This serves two purposes, correcting the wrong text in your document and teaching Proofreader to make the automatic correction next time it sees the same combination of text.

If the wrong text and the correct text are identical, Proofreader uses it as a mechanism to alert you to the potential errors, not for making corrections.

Proofreading:

Click the "Proofread", if there are mistakes in the document. They will be corrected.

The more you teach, the smarter the program is.

Experiment with it. Have fun.

Jay Ye, May 2, 2016, Bangor, Maine

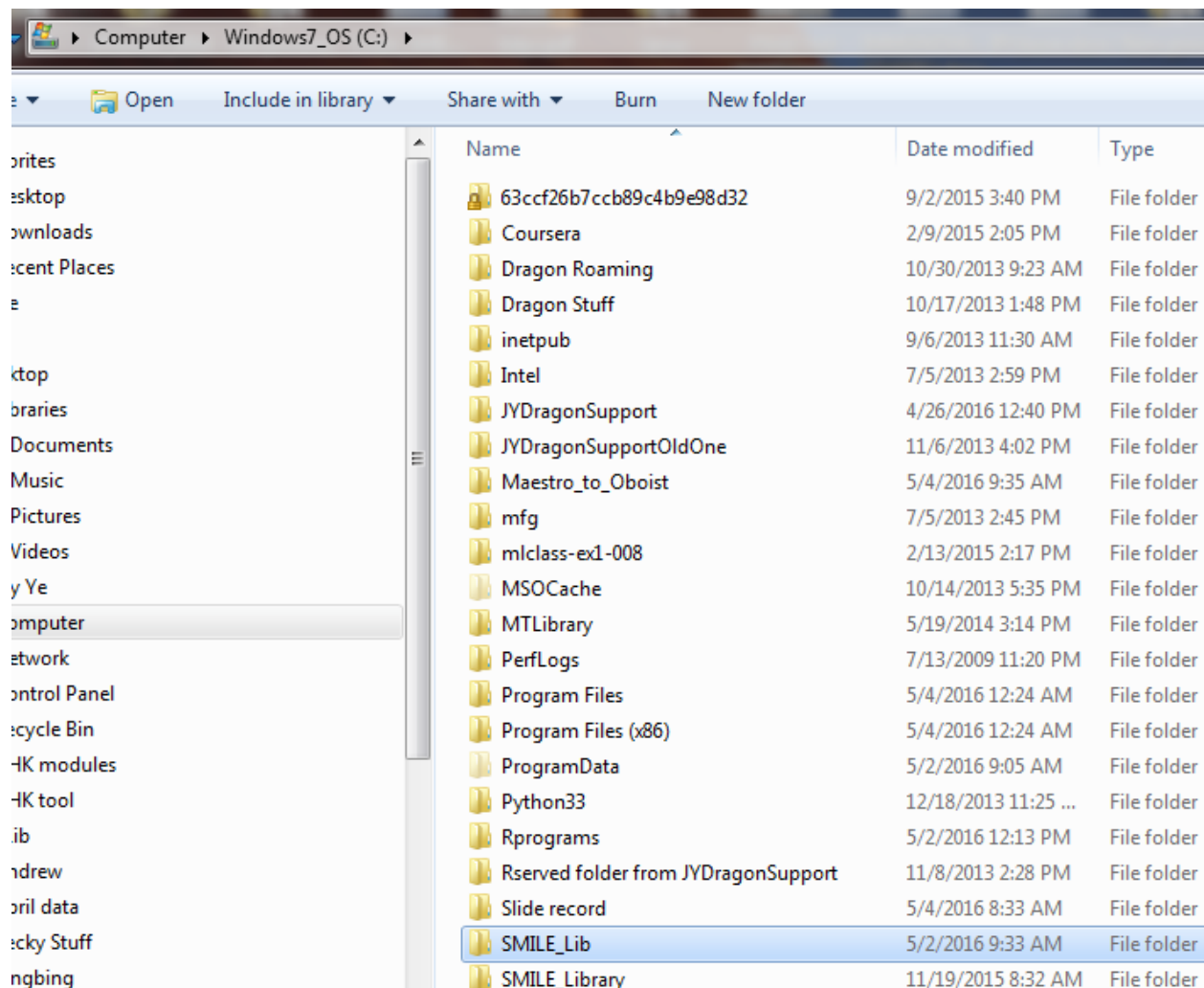
Here is what the program's main window looks like when it is running. Experiment with it. I hope that it is somewhat intuitive. Feedbacks on good features are appreciated; feedbacks on deficiencies and/or ideas for improvement are doubly appreciated. Have fun!



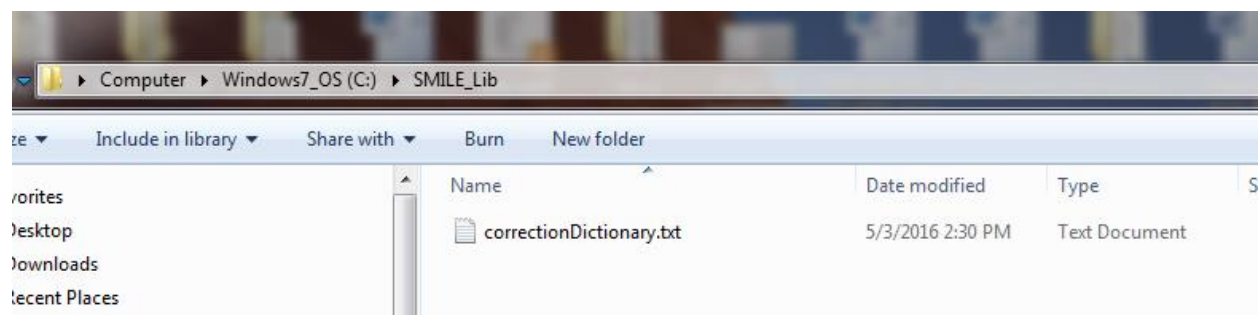
Some requirements:

Your hospital IT needs to allow you or the program to add a folder named "SMILE_Lib" to the **c drive** directly. And the folder will contain a single file "**correctionDictionary.txt**". Proofreader is programmed to do that automatically, but if there is safety restriction by IT, you might to do it manually.

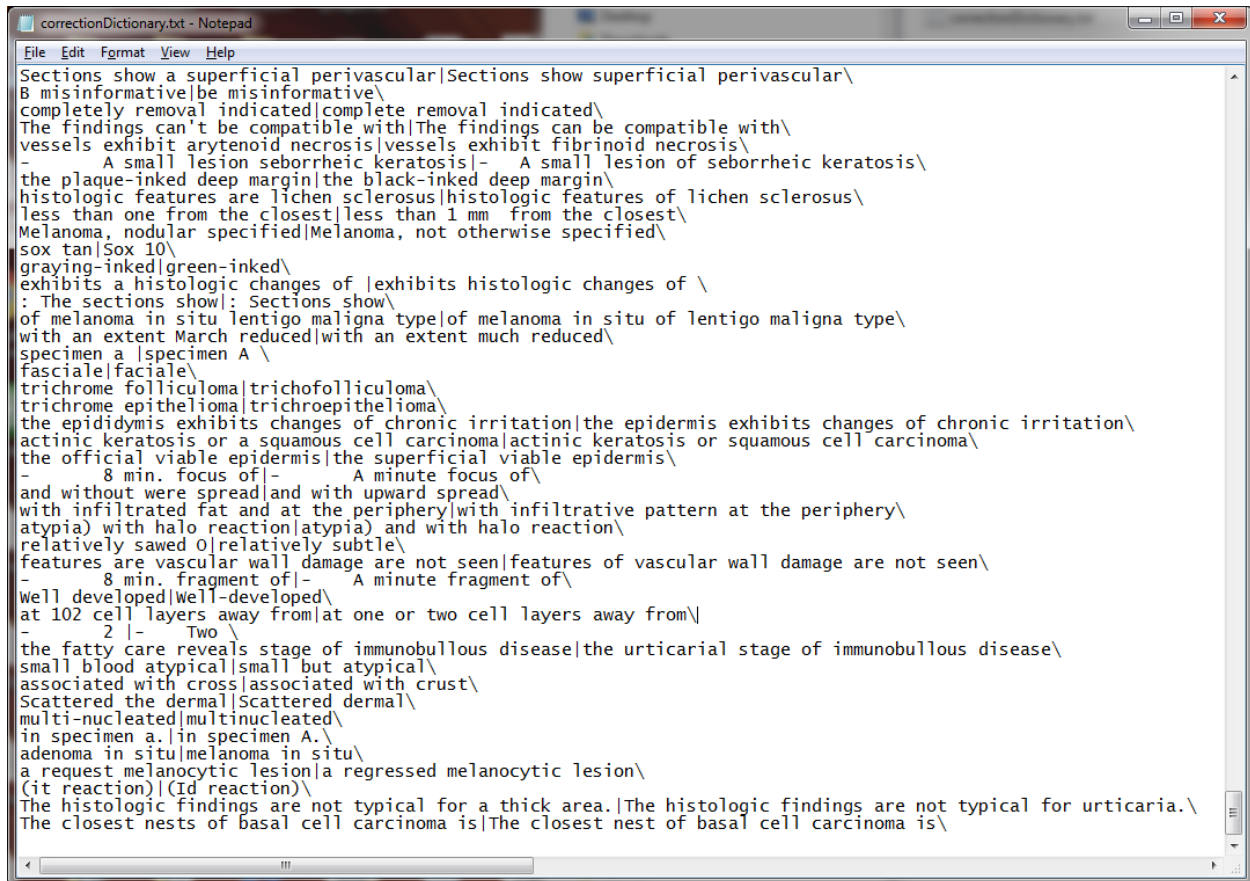
Folder location:



File in the folder:



The content of my file as an example:



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correctionDictionary.txt - Notepad
File Edit Format View Help
Sections show a superficial perivascular\Sections show superficial perivascular\
B misinformative\be misinformative\
completely removal indicated\complete removal indicated\
The findings can't be compatible with\The findings can be compatible with\
vessels exhibit arytenoid necrosis\vessels exhibit fibrinoid necrosis\
- A small lesion seborrhic keratosis\ - A small lesion of seborrhic keratosis\
the plaque-inked deep margin\the black-inked deep margin\
histologic features are lichen sclerosus\histologic features of lichen sclerosus\
less than one from the closest\less than 1 mm from the closest\
Melanoma, nodular specified\Melanoma, not otherwise specified\
sox tan\Sox 10\
graying-inked\green-inked\
exhibits a histologic changes of \exhibits histologic changes of \
: The sections show\ : Sections show\
of melanoma in situ lentigo maligna type\of melanoma in situ of lentigo maligna type\
with an extent March reduced\with an extent much reduced\
specimen a \specimen A \
fasciale\faciale\
trichrome folliculoma\trichofolliculoma\
trichrome epithelioma\trichroepithelioma\
the epididymis exhibits changes of chronic irritation\the epidermis exhibits changes of chronic irritation\
actinic keratosis or a squamous cell carcinoma\actinic keratosis or squamous cell carcinoma\
the official viable epidermis\the superficial viable epidermis\
- 8 min. focus of\ - A minute focus of\
and without were spread\and with upward spread\
with infiltrated fat and at the periphery\with infiltrative pattern at the periphery\
atypia) with halo reaction\atypia) and with halo reaction\
relatively sawed\relatively subtle\
features are vascular wall damage are not seen\features of vascular wall damage are not seen\
- 8 min. fragment of\ - A minute fragment of\
well developed\well-developed\
at 102 cell layers away from\at one or two cell layers away from\
- 2 \ - Two \
the fatty care reveals stage of immunobullous disease\the urticarial stage of immunobullous disease\
small blood atypical\small but atypical\
associated with cross\associated with crust\
Scattered the dermal\Scattered dermal\
multi-nucleated\multinucleated\
in specimen a.\in specimen A.\
adenoma in situ\melanoma in situ\
a request melanocytic lesion\ a regressed melanocytic lesion\
(it reaction)\(Id reaction)\
The histologic findings are not typical for a thick area.\The histologic findings are not typical for urticaria.\
The closest nests of basal cell carcinoma is\The closest nest of basal cell carcinoma is\
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