# An exporter for org to docx via pandoc

The idea here is to write a function that converts your org document to a word document using pandoc. There is not much we need to do, but we would like to convert citations to the format used by pandoc.

(defun pandoc-cite-format (link contents info)  
 (let ((type (org-element-property :type link))  
 (path (org-element-property :path link)))  
 (cond  
 ((string= type "cite")  
 (format "[%s]"  
 (mapconcat  
 (lambda (x) (concat "@" x))  
 (split-string path ",")  
 "; ")  
 ))  
 ;; anything else, we just do the regular thing  
 (t  
 (org-html-link link contents info)))))  
  
(org-export-define-derived-backend 'pandoc-docx 'org  
 :translate-alist '((link . pandoc-cite-format)))

Here are some references to test cite:needs-1989-calcul. And a multiple reference.

cite:jarvi-2008-devel-reaxf,zhou-2004-first-lda-u,curnan-2014-effec-concen

This will export our file with converted links.

(org-export-to-file 'pandoc-docx "some-filename.org")

(defun my-link-format (link contents info)

Now the pandoc command looks like:

pandoc -s -S --biblio=../../Dropbox/bibliography/references.bib org-to-word.org -o org-to-word.docx

So, we need to get the bibliography file from the org file.

(expand-file-name (car (org-ref-find-bibliography)))

(shell-command "rm some-filename.docx")  
(find-file (org-export-to-file 'pandoc-docx "some-filename.org"))  
(shell-command (format "pandoc -s -S --biblio=%s %s -o %s"  
 (expand-file-name (car (org-ref-find-bibliography)))  
 (buffer-file-name)  
 (replace-regexp-in-string "\\.org" ".docx" (buffer-file-name))))  
(shell-command (format "open %s" (replace-regexp-in-string "\\.org" ".docx" (buffer-file-name))))

<./some-filename.docx>

bibliography:org-to-docx-export.bib

# Bibtex entries :noexport:

@article{curnan-2014-effec-concen,  
 author = {Curnan, Matthew T. and Kitchin, John R.},  
 title = {Effects of Concentration, Crystal Structure,  
 Magnetism, and Electronic Structure Method on  
 First-Principles Oxygen Vacancy Formation Energy  
 Trends in Perovskites},  
 journal = {The Journal of Physical Chemistry C},  
 volume = 118,  
 number = 49,  
 pages = {28776-28790},  
 year = 2014,  
 doi = {10.1021/jp507957n},  
 url = {http://dx.doi.org/10.1021/jp507957n},  
 eprint = { http://dx.doi.org/10.1021/jp507957n },  
}  
  
@article{zhou-2004-first-lda-u,  
 author = {F. Zhou and M. Cococcioni and C. Marianetti and D. Morgan and  
 G. Ceder},  
 title = {First-Principles Prediction of Redox Potentials in  
 Transition-Metal Compounds With Lda+u},  
 journal = {Physical Review B},  
 volume = 70,  
 number = 23,  
 pages = {nil},  
 year = 2004,  
 doi = {10.1103/physrevb.70.235121},  
 url = {http://dx.doi.org/10.1103/PhysRevB.70.235121},  
}  
  
@article{jarvi-2008-devel-reaxf,  
 author = {T. T. J{\"a}rvi and A. Kuronen and M. Hakala and K. Nordlund and  
 A. C. T. van Duin and W. A. Goddard and T. Jacob},  
 title = {Development of a Reaxff Description for Gold},  
 journal = {The European Physical Journal B},  
 year = {2008},  
 volume = {66},  
 number = {1},  
 pages = {75-79},  
 doi = {10.1140/epjb/e2008-00378-3},  
 url = {http://dx.doi.org/10.1140/epjb/e2008-00378-3},  
}  
  
@article{needs-1989-calcul,  
 author = {R. J. Needs and M. Mansfield},  
 title = {Calculations of the Surface Stress Tensor and Surface Energy  
 of the (111) Surfaces of Iridium, Platinum and Gold},  
 journal = {Journal of Physics: Condensed Matter},  
 volume = 1,  
 number = 41,  
 pages = {7555-7563},  
 year = 1989,  
 doi = {10.1088/0953-8984/1/41/006},  
 url = {http://dx.doi.org/10.1088/0953-8984/1/41/006},  
}