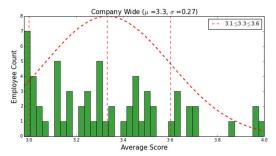
# Python in the Workplace

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# Python in the Workplace

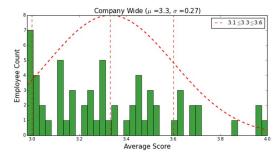


#### Writing toolchain

#### In this chapter

This chapter contains some notes on my AsciiDoc setup. Whilst it is realtively easy to set everything up I found it quite frustrating to find the info needed that would supply a good toolchain from markup to html, pdf, epub etc. I decided to start documenting my progress. Maybe this will be usefull to someone out there. Dont get me wrong all the tools exist but figuring out how they all work, play together and how to style the different output types proved hard for me to figure out. I thought it best to document everything to ensure that I can repeat the whole setup.

# Python in the Workplace



#### What is AsciiDoc

#### **AsciiDoc processor**

I am using the AsciiDoctor engine to render my documents. Just found it easier to install. It is also better documented and much faster.

#### **Text editor**

I am using Submlime text with the AsciiDoc plugin

To use it is simple. Just create a new file, save it as <filename>.asc

It support snippets.

## Syntax highlighting

Because I am using the AsciiDoctor engine, which is written in Ruby, I installed the pygments.rb package.

Use the :source-highlighter: pygments snippet at the top of the document to enable this. Here is a quick example:

#### Live rendering in your browser

I am using the Chrome plugin for live rendering. In the settings set safe mode to server to ensure external files are linked. There are also plugins for other browsers.

NOTE

The live rendering now became part of my writing workflow. If you use a second screen you can open up a browser. Point it to the asciidoc file you are currently editing. You will see it redered in the browser. Each time you save the document it should refresh itself. Now you do not need to compile the document each time. Now you can focus on the writing and have a look in real time how it renders.

#### **AsciiDoctor cheatsheet**

Realy all you realy need to know about the markup can be found at the AsciiDoctor reference guide. Here is a simple example adding a picture.

#### Some notes regarding images

Documentation Set the imagesdir setting

#### PDF generation

The asciidoctor-pdf package makes it possible to generate PDF documents from your source. After installation you can run the following command to get basic PDF generation.

```
asciidoctor-pdf example.adoc
```

#### **EPUB** generation

#### Install asciidoctor-epub3

The asciidoctor-epub3 packages makes it possible to generate EPUB3 ready outputs from your source. Run the following command to generate a basic EPUB ouput:

```
asciidoctor-epub3 example.adoc
```

#### Wrap the book in a spine

It is important to remember that you need to wrap an ebook in an outside chapter(spine). This means that you have to add a file like to one below to wrap the book in. run the asciidoctor-epup3 command agains this file name.

epub\_wrapper.asc

```
= Asciidoctor EPUB3: My Setup
Tobie Nortje
:doctype: book
:front-cover-image: {imagedir}/ebook_front_page.png
include::yourbook.asc[]
include::yourbook.asc[]
```

#### E-book front cover image

If you want to add a front cover image you can add it with the front-cover-image command. A usefull resource to figure out what the dimensions of this image is can be found here The optimimum size seems to be 600px x 800px in jpg format

#### E-book avatar

You can also include an avatar in the beginning of each chapter by using the username command. It is used to resolve an avatar for the author that is displayed in the header of a chapter. The avatar image should be located at the path images//avatars/{username}.jpg, where {username} is the value of this attribute.

#### **Custom stylesheet**

The AsciiDoctor Stylesheet Factory makes it possible to produce your own themes. More information can be found on the AsciiDoctor Website. You will have to build custom css with the tools provided in the links

#### Makefile

I use the following IPython script to manage the build process. It is relatively simple. Here IPython is used as a scripting language. The key issue is using the ! before a shell command. Passing variables can be done by adding a \$ in front of the Python variable.

```
# asciidoctor build script
# run with ipython build.ipy
ebook =
            'ebook.asc'
mainbook =
             'index.asc'
render dir = 'output'
                          '/html.html'
html out = render dir +
                         '/pdf.pdf'
pdf out = render dir +
epub_out = render_dir +
                         '/epub.epub'
#!asciidoctor $mainbook
!asciidoctor $mainbook -o
                             $html out
!asciidoctor-epub3 $ebook -o
                               $epub_out
!asciidoctor-pdf $mainbook -o
                                $pdf_out
#move the images directory to the output directory
#html can find it
!cp -r images output/
```

### **Conditional compilation**

I am sure later on I would need to set some directives to change values based on the output for example changing image sizes between HTML, pdf and epub.

#### **Social**

Work in progress by Tobie Nortje, Revision - draft

Email my at - tobie.nortje@gmail.com or get in touch on twitter = @tooblippe

Contribute on github - tooblippe

Website - http://www.pythonatwork.co.za