

1 Introduction

1.1 What this is for

This project is meant to make writing easier and more productive.

So you want to write a document. Maybe you'll share it on the web. Maybe you want a polished pdf. Maybe it's a blog, research paper, book draft, or just a set of notes. You *don't* want to think about typesetting details. You just want to throw your ideas in some plain text files and call make.

This package makes it very easy to compile text taken in Markdown to valid xhtml or to a pdf via LaTeX. It can be used to make simple webpages quickly, for example:

<http://rreece.github.io/sw/markdown-memo/>

This same document compiled to a pdf can be found here:

<http://rreece.github.io/sw/markdown-memo/example.pdf>

1.2 How it works

[Markdown](#) is a very simple markup language for writing documents that basically looks as if you were to write your ideas in a plain-text email. In this package, we aim to hide some of the boiler-plate issues of compiling a completely formatted document or webpage from Markdown, trying to make it as trivial as possible to get your ideas out.

Most of the heavy-lifting work underneath markdown-memo is done by the [pandoc](#) program, which does the actual compilation of Markdown to html or pdf.

Most of the magic in the implementation of markdown-memo is in its [Makefile](#), which basically calls pandoc in various useful configurations and applies some hacks to the output using the tools in `scripts/`.

Keep content and style separated.

The idea is that all user *content* should be in plainly written *.md files and one metadata file: `meta.yaml`. All *stylistic* issues should be implemented in the details of the files in `templates/` and configurable through `meta.yaml`, and unless you want to, you shouldn't have to worry about them.

For example, [see what changes](#) when this document is created with

```
css: 'templates/markdown-memo-alt.css'
```

set in `meta.yaml`, instead of the css file used in the [default version](#):

```
css: 'templates/markdown-memo.css'
```

2 Getting started

2.1 Checking-out the template

Check out `markdown-memo` with a [simple git command](#), like:

```
git clone https://github.com/rreece/markdown-memo.git
```

Some basic instructions are given in the [README.md](#). They are expanded on here.

Basically, once you have cloned `markdown-memo`, if you satisfy its requirements you should be able to call `make` and receive reasonable html output, and call `make pdf` and receive a reasonable pdf.

Feel free to rename `markdown-memo` as whatever is suitable to your project, and delete the example `*.md` files.

2.2 Requirements

- `make`
- LaTeX (`texlive/mactex`)
- `python`
- `pandoc`
- [pandoc-citeproc](#)
- `pandoc-crossref`

On my Mac, I used to install the missing dependencies through [macports](#), but beginning with OS 10.11, I started using [homebrew](#).

First, if you are on a Mac, you should install [Xcode](#) through the Apple app store to get `make` and basic build utilities.

With *macports*, one does

```
sudo port selfupdate
sudo port install texlive-latex texlive-latex-recommended texlive-latex-extra texlive-math-extra
sudo port install pandoc
sudo port install hs-cabal-install
cabal update
cabal install pandoc-citeproc pandoc-crossref
```

With *homebrew*, one does

```
brew cask install mactex
brew install pandoc
brew install pandoc-citeproc
brew install pandoc-crossref
```

If something doesn't work for you, please let me know! I'll do my best improve the documentation and make the software more robust as time allows. Contact me at:

Please let me know if you have success or failure testing this on different systems.

2.3 Starting a page or section

Just open or create a first md file in that directory like 01-introduction.md, and start typing. Each file should probably correspond to a webpage or section in the document, and in that case, it should begin with an h1-level heading (section), denoted with a double-rule of equal-signs, like:

```
Section title
=====
```

Or marked like this:

```
# Section title
```

Then you can have sub-sections as you wish, and/or just start typing the main text. There's no need for additional markup or html.

You can delete the example *.md files within this template when beginning your project.

2.4 Going from there

The following sections of this example document will show examples of Markdown syntax. For now, briefly, some examples of [Markdown syntax](#) are

Section 1

=====

Sub-section 1

[Lorem ipsum](https://en.wikipedia.org/wiki/Lorem_ipsum)
 dolor sit amet, duo ut putant verear, nam ut brute utroque.
 Officiis qualisque conceptam te duo, eu vim soluta numquam, has ut aliquip
 accusamus. Probo aliquam pri id. Mutat singulis ad vis, eam euismod pertinax
 an, ea tale volumus vel. At porro soleat est. Debet facilis admodum an sed,
 at falli feugiat est.

1. one
1. two
1. three

You can do latex in-line, $e^{i\pi} + 1 = 0$, like that.
 Or equations:

```
\begin{equation}
  \int_{\partial\Omega} \omega = \int_{\Omega} \mathrm{d}\omega \,,
\end{equation}
```

2.5 Building your document

In addition to writing the basic md files for your project, you need to write a metadata file: meta.yaml. See the example metadata there.

Then you can build your document. A lot of the inner-workings of markdown-memo are done in the Makefile.

- Call `make html` to generate valid xhtml. For example, [this document](#).
- Call `make pdf` to generate a pdf document. For example, [this document](#).
- Call `make clean` to delete temporary LaTeX files.
- Call `make realclean` to additionally delete the output html and pdf files.

I use an image of my email to hide it from text crawlers. Please replace `img/my_email.png`

with a screenshot of your email address instead of mine, or just remove the use of the image in `meta.yaml`.

Customize the files in `templates/` to adjust the format of the output html and pdfs files to your needs.

3 Markdown basics

Here we review the basics of Markdown. A further reference on Markdown syntax by its creator is [here](#).

3.1 Sections

Are markeded like this:

```
Section title {#sec:put-section-label-here}
=====

Sub-section title
-----
```

Or marked like this:

```
# Section title {#sec:put-section-label-here}

## Sub-section title

### Sub-sub-section title

Main text here.
```

Note the examples of labeling a section in braces with #, as shown above. This allows one to refer to labels in the text like:

The next section, [`@sec:lists`], is about lists.

The next section, Section ??, is about lists.

3.2 Lists

Unnumbered lists like this:

- Galileo Galilei
- Robert G. Ingersoll
- Jill Tarter

- Galileo Galilei
- Robert G. Ingersoll
- Jill Tarter

Numbered lists like this:

1. Naïve realists
1. Scientific realists
1. Constructive empiricists
1. Positivists
1. Relativists

1. Naïve realists
2. Scientific realists
3. Constructive empiricists
4. Positivists
5. Relativists

3.3 Blocks

The following is a **quote block**.

```
> It ain't what you don't know that gets you into trouble.  
> It's what you know for sure that just ain't so.
```

```
-- Mark Twain
```

It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so.

– Mark Twain

A **code block** (used throughout these examples) is just indented with 4 spaces, like this:

```

def shortBubbleSort(alist):
    exchanges = True
    passnum = len(alist)-1
    while passnum > 0 and exchanges:
        exchanges = False
        for i in range(passnum):
            if alist[i]>alist[i+1]:
                exchanges = True
                temp = alist[i]
                alist[i] = alist[i+1]
                alist[i+1] = temp
        passnum = passnum-1

alist=[20,30,40,90,50,60,70,80,100,110]
shortBubbleSort(alist)
print(alist)

```

which makes:

```

def shortBubbleSort(alist):
    exchanges = True
    passnum = len(alist)-1
    while passnum > 0 and exchanges:
        exchanges = False
        for i in range(passnum):
            if alist[i]>alist[i+1]:
                exchanges = True
                temp = alist[i]
                alist[i] = alist[i+1]
                alist[i+1] = temp
        passnum = passnum-1

alist=[20,30,40,90,50,60,70,80,100,110]
shortBubbleSort(alist)
print(alist)

```

Maybe you want to refer to **code inline** like this with backticks:

Here's some inline code: ``vec.push_back(3.14)``.

Here's some inline code: `vec.push_back(3.14)`.

For poems and the like where you want **linebreaks taken literally**, prepend lines with `|` and a single space. Additional spaces can be used, but will indent the output.

```
| Art is long,  
| Life is short,  
| Opportunity fleeting,  
| Experiment dangerous,  
| Judgment difficult.
```

Art is long,
Life is short,
Opportunity fleeting,
Experiment dangerous,
Judgment difficult.

Otherwise, one can put two or more spaces at the end of a line of Markdown for the linebreak to be taken literally like this.

A **horizontal rule** can be made by just writing some number of dashes:

Boom.

3.4 Fonts

```
- *This is emphasis.*  
- **This is bold.**  
- _This is also emphasis._  
- __This is also bold.__  
- _This is emphasis and bold._  
- __This is bold and emphasis.__  
- ~~This is struck-out.~~
```

produces:

- *This is emphasis.*
- **This is bold.**
- *This is also emphasis.*

- **This is also bold.**
- *This is emphasis **and** bold.*
- **This is bold *and* emphasis.**
- ~~This is struck-out.~~

Don't do this. These will work in LaTeX (L^AT_EX) but may not in html.

```
- \textsf{This should be Sans.}
- \textsc{This Should BE SMALL caps.}
- $\textsf{This works though!}$
- $\textsc{But this does not!}$
```

produces:

- This should be Sans.
- THIS SHOULD BE SMALL CAPS.
- This works though!
- BUT THIS DOES NOT!

3.5 Links

URLs are done like this:

[Lorem ipsum](https://en.wikipedia.org/wiki/Lorem_ipsum)

[Lorem ipsum](#)

When referring to labeled sections/figures/tables, you do not include the literal word “Section”, “Figure”, or “Table”, which will be included for you, *but for equations you do* (tell me otherwise?). These prefixes are configurable in the `meta.yaml` file.

Refer to labeled things like this:

- for sections: [`@sec:footnotes`]
Section ??
- for figures: [`@fig:scientific_universe`]
- for tables: [`@tbl:atlas_channels`]
- for equations: eq.\ `$\eqref{eq:stokes}$`

3.6 Footnotes

Here's how you do a footnote[^{~SomeSpecialNote}].

[^{~SomeSpecialNote}]: Lorem ipsum dolor sit amet, duo ut putant verear, nam ut brute utroque. Officiis qualisque conceptam te duo, eu vim soluta numquam, has ut aliquip accusamus. Probo aliquam pri id. Mutat singulis ad vis, eam euismod pertinax an, ea tale volumus vel. At porro soleat est. Debet facilis admodum an sed, at falli feugiat est.

produces:

Here's how you do a footnote¹.

4 Bibliographies

4.1 Making a bibliography

Markdown-memo uses [bibtex](#) via [pandoc](#) to generate a bibliography for your document. We've made this even simpler by allowing the user to create a simple text file to generate the necessary bibtex .bib file using the [markdown2bib](#) script. Markdown-memo looks for any `bibs/*.txt` files and uses `markdown2bib` to combine them and create `bibs/mybib.bib` in bibtex format. This is later used by `pandoc` when creating `tex` → `pdf` or `html`.

The `bibs/*.txt` should be plain text with a single reference per line, with each reference in a style that loosely follows the [American Psychological Association \(APA\)](#), which is commonly used in humanities. Currently four types of references are supported: `article`, `book`, `incollection`, and `misc`. The journal or book titles need to be in markdown-style *emphasis*, meaning `*Set Within Asterixis*`. Also note that for works in a collection, you need to use the word "In" in the right place, like in the reference by Quine below. The rest of the syntax tries to be forgiving. If you want to add a note to appear at the end of the reference, put it at the end within [square brackets] like the work by Plato below.

For example, the `mybib.txt` file in this document is

```
ATLAS Collaboration. (2008). The ATLAS Experiment at the CERN Large Hadron Collider. *JINST*, 3, S08003.
ATLAS Collaboration. (2012). Observation of a new particle in the search for the Standard Model Higgs boson with
```

¹ Lorem ipsum dolor sit amet, duo ut putant verear, nam ut brute utroque. Officiis qualisque conceptam te duo, eu vim soluta numquam, has ut aliquip accusamus. Probo aliquam pri id. Mutat singulis ad vis, eam euismod pertinax an, ea tale volumus vel. At porro soleat est. Debet facilis admodum an sed, at falli feugiat est.

Feynman, R.P. (1963). *The Feynman Lectures on Physics, Volume I*. California Institute of Technology. <http://www.feynmanlectures.caltech.edu/>

Feynman, R.P. (1965). *The Development of the Space-Time View of Quantum Electrodynamics*. Nobel Lecture, December 1965.

Miller, A. (2014). *Realism*. *Stanford Encyclopedia of Philosophy*. <http://plato.stanford.edu/entries/realism/>

Plato. (2000). *The Republic*. (G. Ferrari, Ed. & T. Griffith, Trans.). Cambridge: Cambridge University Press.

Quine, W.V.O. (1969). *Natural kinds*. In *Ontological Relativity and Other Essays*. New York: Columbia University Press.

van Fraassen, B. (1980). *The Scientific Image*. Oxford: Oxford University Press.

If you do not want to use simplified txt files to generate bibtex, and you want to write your own bibtex, then simply remove any bibs/*.txt files and write a file called bibs/mybib.bib.

If you do not need a bibliography, set

```
dorefs: false
```

in meta.yaml, and then these scripts and programs are not run.

4.2 Doing citations

Citations start with an @-sign, and can be used inline, like:

```
@Miller_2014_Realism argues that we should get real.
```

which produces:

Miller (2014) argues that we should get real.

Inside a caption, you may want to end it with the citation in parentheses like this:

```
Blah blah blah [@Feynman_1963_The_Feynman_Lectures_on_Physics_Volume_I]\.
```

which produces:

Blah blah blah (Feynman 1963).

Typically, I find it better to leave citations² in footnotes to keep from cluttering the main text. Let's try citing various kinds of references. Feynman said some important things³. But everything is a footnote to Plato⁴. Van⁵ is a cool cat too.

²Quine (1969).

³Feynman (1965).

⁴Plato (2000).

⁵van Fraassen (1980).

In order for a References section to be generated per html page, you need to add a special html comment near the end of your Markdown file for that page:

```
<!-- REFERENCES -->
```

Pages without such a comment will not get an automatic References section, but the complete pdf document will automatically still have a complete References section at the end as long as

```
dorefs: true
```

is set in meta.yaml.

5 Mathematical expressions

5.1 Typetting math

You can do latex inline like this:

```
Euler's formula is remarkable: $e^{i\pi} + 1 = 0$.
```

Euler's formula is remarkable: $e^{i\pi} + 1 = 0$.

Just use the latex equation environment directly. Stokes' theorem is pretty cool:

```
\begin{equation} \label{eq:stokes}
\int_{\partial\Omega} \omega = \int_{\Omega} \mathrm{d}\omega \,,
\end{equation}
```

$$\int_{\partial\Omega} \omega = \int_{\Omega} \mathrm{d}\omega . \tag{1}$$

You can also refer to labeled equations, such as eq. (??), with the syntax:

```
... such as eq.\ $\eqref{eq:stokes}$,
```

Note that `\` makes a non-breaking space.

The `align` environment can also be used. Maxwell's equations (??) are also tough to beat:

```
\begin{align}
  \nabla \cdot \vec{E} &= \rho \quad \text{\nonumber} \\
  \nabla \cdot \vec{B} &= 0 \quad \text{\nonumber} \\
  \nabla \times \vec{E} &= - \frac{\partial \vec{B}}{\partial t} \quad \text{\label{eq:maxwell}} \\
  \nabla \times \vec{B} &= \vec{j} + \frac{\partial \vec{E}}{\partial t} \quad \text{\nonumber}
\end{align}
```

$$\begin{aligned}
 \nabla \cdot \vec{E} &= \rho \\
 \nabla \cdot \vec{B} &= 0 \\
 \nabla \times \vec{E} &= -\frac{\partial \vec{B}}{\partial t} \\
 \nabla \times \vec{B} &= \vec{j} + \frac{\partial \vec{E}}{\partial t}.
 \end{aligned} \tag{2}$$

5.2 Mathjax

When doing `md` \rightarrow `tex` \rightarrow `pdf`, LaTeX takes care of the math, but to render the math in html, we use [MathJax](#). Our html template includes the following code to ask MathJax to render it and number the equations:

```
<!-- MathJax stuff -->
<script src='https://cdn.mathjax.org/mathjax/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML'></script>
<script type="text/x-mathjax-config">
  MathJax.Hub.Config({ TeX: { equationNumbers: {autoNumber: "all"} } });
</script>
```

6 Floats, Figures, and Tables

6.1 Figures

To add a figure, use the following basic syntax:

```
![caption](img/image-path.png){#fig:scientific_universe}
```

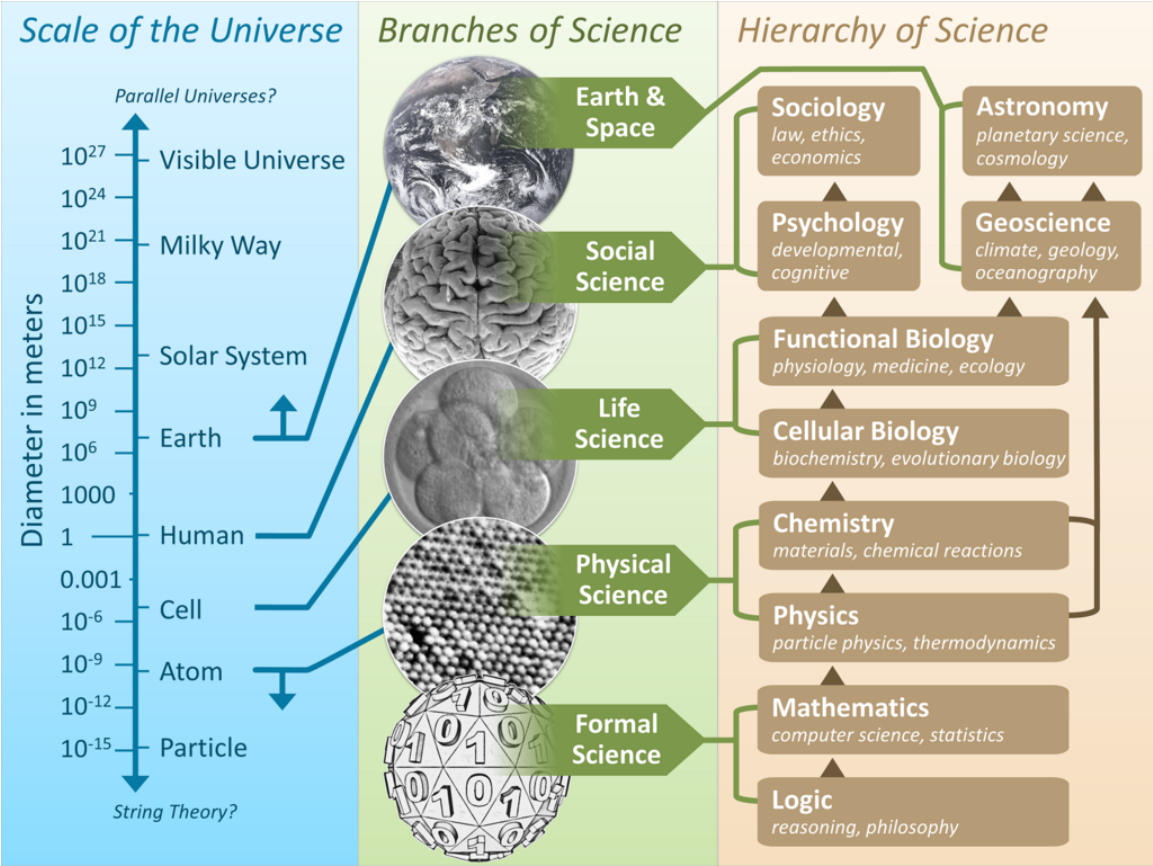


Figure 1: The scale of the universe mapped to the branches of science and the hierarchy of science. CC BY-SA 3.0 (2013) [Wikimedia Commons](#).

For example,

```
![The scale of the universe mapped to the branches of science and the hierarchy
  of science. CC BY-SA 3.0 (2013) [Wikimedia Commons](https://en.wikipedia.org/wiki/Science#/media/File:The_S
  ](img/1024px-the_scientific_universe.png){#fig:scientific_universe}
```

produces:

Figure ?? shows some cool things.

Lorem ipsum dolor sit amet, duo ut putant verear, nam ut brute utroque. Officiis qualisque conceptam te duo, eu vim soluta numquam, has ut aliquip accusamus. Probo aliquam pri id. Mutat singulis ad vis, eam euismod pertinax an, ea tale volumus vel. At porro soleat est. Debet facilis admodum an sed, at falli feugiat est.

Ne nonumy quodsi petentium vix, mel ad errem accusata periculis. Porro urbanitas consetetur mei eu, his nisl officiis ei. Ei cum fugit graece, ne qui tantas qualisque voluptaria. Vis ut laoreet euripidis, vix aequo omittam at, vix no cetero volumus. Per te

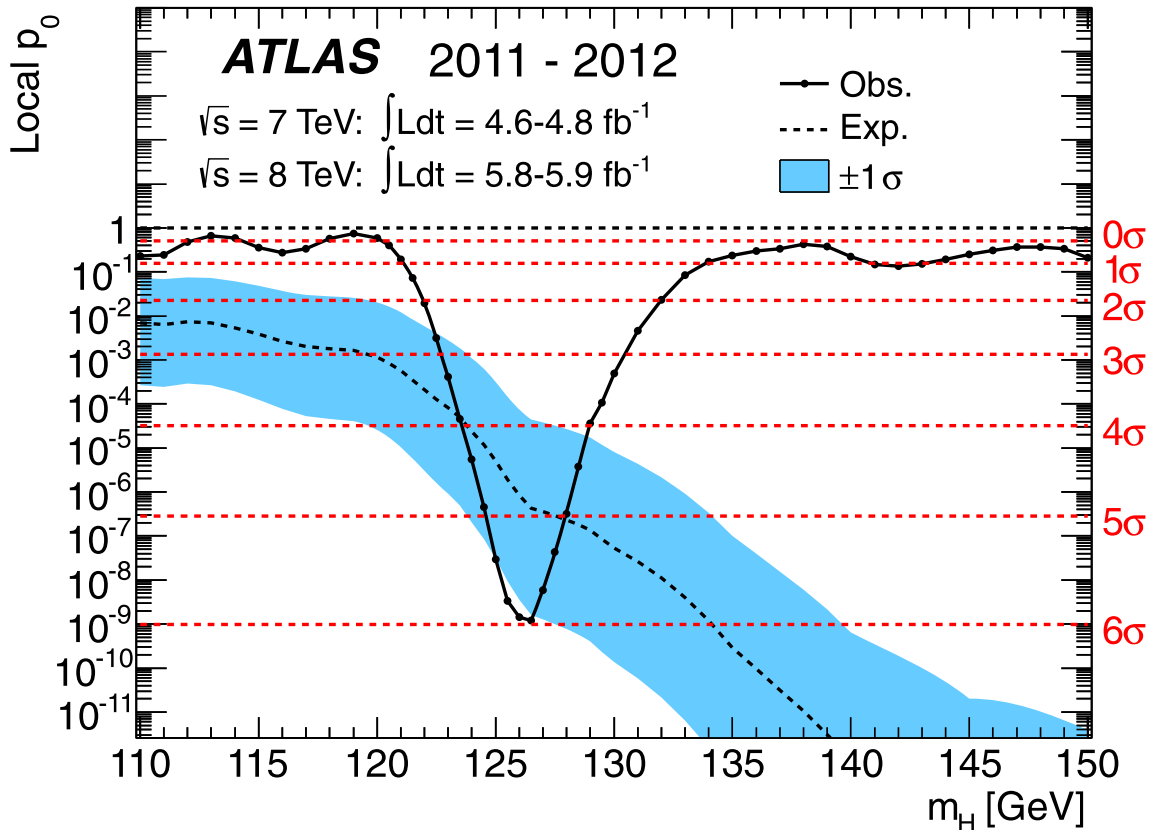


Figure 2: The observed (solid) local p_0 as a function of m_H in the low mass range. The dashed curve shows the expected local p_0 under the hypothesis of a SM Higgs boson signal at that mass with its $\pm 1\sigma$ band. The horizontal dashed lines indicate the p -values corresponding to significances of 1 to 6σ (ATLAS Collaboration 2012).

omnium volutpat torquatos, cu vis sumo decore. Eirmod hendrerit an pri.

Another example:

![The observed (solid) local p_0 as a function of m_H in the low mass range. The dashed curve shows the expected local p_0 under the hypothesis of a SM Higgs boson signal at that mass with its $\pm 1\sigma$ band. The horizontal dashed lines indicate the p -values corresponding to significances of 1 to 6σ [ATLAS_2012_Observation_of_a_new_particle_in_the_search_for]. (img/ATLAS-local-p0-vs-mH.png){#fig:ATLAS_local_p0_vs_mH}

produces:

You can refer to labeled figures like this:

[@fig:ATLAS_local_p0_vs_mH] shows the p_0 value as a function of the reconstructed Higgs mass from the ATLAS experiment.

Figure ?? shows the p_0 value as a function of the reconstructed Higgs mass from the ATLAS experiment.

6.2 Tables

The basic syntax for a table is:

Table: Approximate number of readout channels per sub-detector in ATLAS for the primary sub-detectors (ignoring

System	Subsystem	Approx. channels
:-----	:-----	:-----:
Inner detector	Pixels	80 M
	SCT	6.3 M
	TRT	350 k
EM Calorimeter	LAr barrel	110 k
	LAr end-cap	64 k
Hadronic Calorimeter	Tile barrel	9.8 k
	LAr end-cap	5.6 k
	LAr forward	3.5 k
Muon spectrometer	MDTs	350 k
	CSCs	31 k
	RPCs	370 k
	TGCs	320 k
Total		88 M

which produces:

Table 1: Approximate number of readout channels per sub-detector in ATLAS for the primary sub-detectors (ignoring the minbias trigger system, luminosity monitors, and DCS sensors) (ATLAS Collaboration 2008).

	System	Subsystem	Approx. channels
Inner detector		Pixels	80 M
		SCT	6.3 M
		TRT	350 k
EM Calorimeter		LAr barrel	110 k
		LAr end-cap	64 k
Hadronic Calorimeter		Tile barrel	9.8 k
		LAr end-cap	5.6 k
		LAr forward	3.5 k
Muon spectrometer		MDTs	350 k
		CSCs	31 k
		RPCs	370 k

	System	Subsystem	Approx. channels
		TGCs	320 k
Total			88 M

Refer to tables like this:

[@tbl:atlas_channels] shows some cool things too.

Table ?? shows some cool things too.

6.3 Table of contents per html page

To insert a table of contents for a single html page, add the following line to the Markdown, probably near the top of the page as is done for this one.

```
<!-- PAGETOC -->
```

6.4 Clickmore

You can hide parts of a document in a heading that needs to be clicked to show more by making a div of class clickmore and a div of class more, linked to eachother like this:

```
<div class="clickmore"><a id="link:test1" class="closed" onclick="toggle_more('test1')">Click for more details<div id="test1" class="more">
```

Ne nonumy quodsi petentium vix, mel ad errem accusata periculis. Porro urbanitas consetetur mei eu, his nisl officiis ei. Ei cum fugit graece, ne qui tantas qualisque voluptaria. Vis ut laoreet euripidis, vix aequae omittam at, vix no cetero volumus. Per te omnium volutpat torquatos, cu vis sumo decore. Eirmod hendrerit an pri.

...

```
</div>
```

For example:

Click for more details

Ne nonumy quodsi petentium vix, mel ad errem accusata periculis. Porro urbanitas consetetur mei eu, his nisl officiis ei. Ei cum fugit graece, ne qui tantas qualisque voluptaria. Vis ut laoreet euripidis, vix aequae omittam at, vix no cetero volumus. Per te omnium volutpat torquatos, cu vis sumo decore. Eirmod hendrerit an pri.

Amet magna voluptatum eam eu. Denique moderatius ad pri, an vix tale referrentur, atqui appetere et eos. Pri esse disputationi et. Te his assum persius, in eam deterruisset consequuntur. Quando signiferumque no his, usu nusquam corrumpit ex, sea ex soluta option facilisis. Ne autem assentior consequuntur nam, constituto scripserit no eam. Eu laoreet fabellas postulant eos.

Ei oratio mediocritatem sea, at choro mandamus disputando quo, id eius albucius deseruisse mei. Id eam verear disputando repudiandae. Per et clita reformidans. Ea his corpora ancillae fabellas, an eum facer tation populo. Vix omittam lucilius inciderint ne, est cu civibus scribentur adversarium.

Pro solet accumsan at. Id has dicunt corrumpit, vel in mundi vitae definiebas, eos in dicunt aliquando. His falli qualisque eu, ad vim movet dolor, per ne denique lobortis. Recusabo tractatos per cu. Apeirian voluptaria constituam eam no. Scripta vivendum mel ne.

I wonder if Table ?? works.

Table 2: Caption

a	b	c
1	2	3
4	5	6

7 Conclusions

This project is meant to make writing easier and more productive.

markdown-memo is developed by [Ryan Reece](#).

Let me know what you think about it in an email to

or find me on Twitter [@RyanDavidReece](#).

Acknowledgements

Thanks to everyone who helped with this manuscript.

A Special features

This is an appendix. You start it like any other section, except put the following command first, before the section heading.

```
\appendix
```

```
Put appendix name here
```

```
=====
```

If you add multiple appendices, perhaps you want to separate them from the main text with a part:

```
\clearpage
```

```
\appendix
```

```
\part*{Appendices}
```

```
\addcontentsline{toc}{part}{Appendices}
```

```
Example appendix
```

```
=====
```

```
Start writing the appendix...
```

A.1 Special files

There are a few special files that help steer the execution of `markdown-memo` or are otherwise exceptional.

Documentation:

- `README.md` - Please empty this file and adapt it to your project.
- `VERSIONS` - Documents the chronology of `markdown-memo` versions. Feel free to delete or adapt this to your project.

Primary files edited by the user:

- `meta.yaml` - The main metadata file controlling the project in many ways.
- `*.md` - Any other user-created Markdown files, the markup of your document.

Optional files:

- `index.[md,txt]` - The top-level, root file of your project. By default, if `index.txt` is missing, a table of contents is generated for `index.md`, otherwise (the user-written) `index.txt` is copied to be the `index.md`.
- `bib_index.md` - Call `make bib_index.md` to generate this file. It is to help incorporate citations into your document by being an automatically generated list of the references, with footnotes, created from the available bibliography files in `bibs/`.
- `order.txt` - Optionally, the user can create this file, which should have a list of Markdown files used in the document, one-per-line, in the order as to be used for the navigation buttons in the html template. By default, building the html will generate this file if it doesn't already exist, with the Markdown files listed in alphabetical order. If one names the Markdown files something like `01-first-section.md`, `02-second-section.md`, etc., then the order should be handled automatically.

A.2 Disqus integration

You can choose to append a comments section at the end of your html. Just register a user name and the site name with disqus.com. Then in the `meta.yaml`, set your `disqus_shortcode`:

```
disqus_shortcode: 'my-sites-disqus-name'
```

A.3 Google analytics integration

You can choose to add Google analytics tracking to your site, by registering it with [Google analytics](https://www.google.com/analytics/) and add your tracking ID to the `meta.yaml`:

```
google_analytics_tracking_id: 'UA-XXXXXXX-X'
```

A.4 Word count

Note that word-count and page-count plots are generated when you call `make pdf`. You might want to keep these around in the `README.md` for your document.

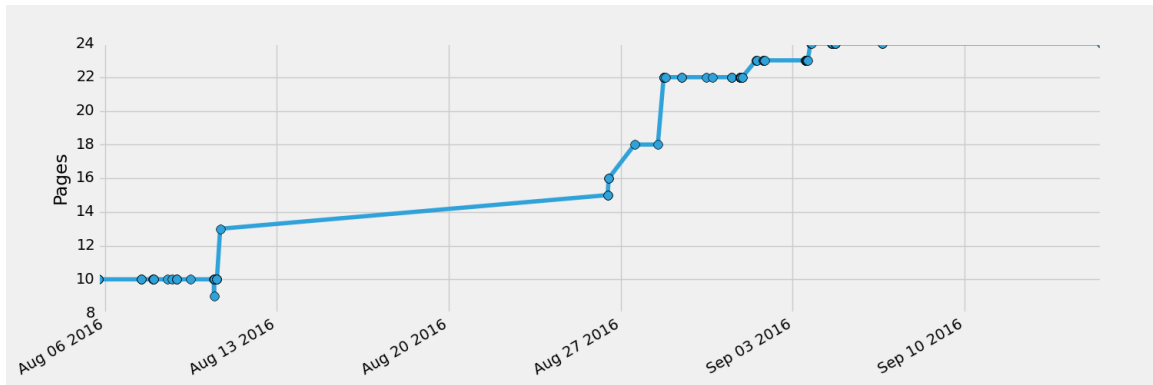


Figure 3: Page count over time.

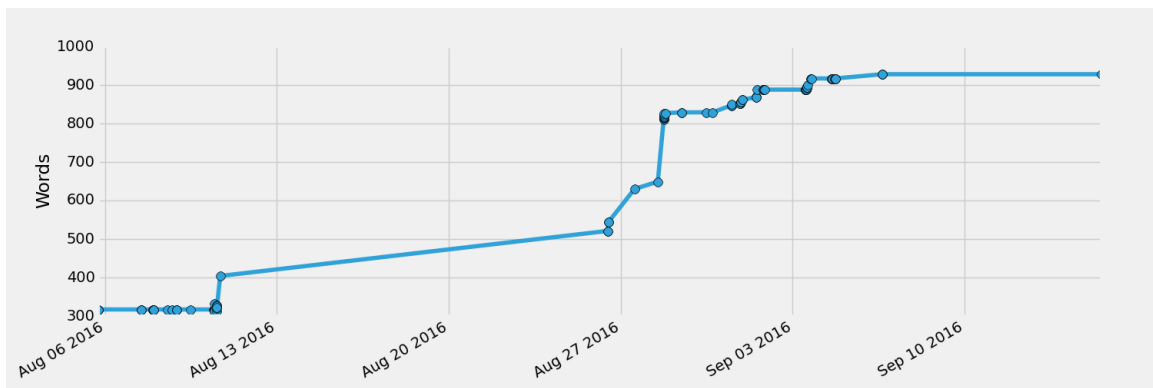


Figure 4: Word count over time.

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