

Some Typora Propaganda

The Goal of Markdown

A *markdown*-formatted document should be publishable as-is, as plain text, without looking like it's been marked up with tags or formatting instructions.

John Gruber

Frequently e-mails look like marked-down texts.

The original markdown guideline can be found at [daringfireball](#). Typora subscribes to the markdown-dialect that is used at GitHub.

The way the markdown document is represented on screen and/or exported can be influenced on the fly: Just select another `Theme`

Scientific Scrapbooking with Markdown Editors

Keep lab/project notes and notebooks with a [markdown](#) editor for distraction-free writing.

For **Typora**: visit: <https://typora.io/>

Several (display) themes are available (any new ones can be created by users via .css). Here, the theme `Engwrite` is used.

Selected Features

```
# This is a level-1 title
## This is a level-2 title

### This is a level-3 title
A silly paragraph where you want to *emphasize* the EMPA-size or throw in some **bold** statements ...
```

This is a level-3 title

A silly paragraph where you want to *emphasize* the EMPA-size or throw in some **bold** statements ...

Todo lists

are typed as `- []`

- Prepare coffee lecture
- Deliver coffee lecture
- Drink coffee, lecture-less

Inline code and code fences

Code snippets can be placed in running text, such as `import matplotlib as mpl` via single backquotes or whole code blocks embraced by triple backquotes:

```
! FUN WITH FORTRAN

module program
  implicit none
end module program

program module
  use program

  integer :: real, kind
  real    :: logical
  logical :: integer

  if (integer) then
    do: do real = kind, real
      end do do
    end if
  end program module
```

Math typesetting

Mathematical equations can be typeset in LaTeX notation (actually, it is the MathJax subset that is available). Either as inline expressions: $G_{\mu\nu} \equiv R_{\mu\nu} - \frac{1}{2}g_{\mu\nu}R = \frac{8\pi G}{c^4}T_{\mu\nu}$ or in block mode:

$$\begin{aligned}y &= y(x, t) = Ae^{i\theta} \\ &= A(\cos \theta + i \sin \theta) \\ &= A(\cos(kx - \omega t) + i \sin(kx - \omega t)) \\ &= A \cos(kx - \omega t) + iA \sin(kx - \omega t) \\ &= A \cos\left(\frac{2\pi}{\lambda}x - \frac{2\pi v}{\lambda}t\right) + iA \sin\left(\frac{2\pi}{\lambda}x - \frac{2\pi v}{\lambda}t\right) \\ &= A \cos \frac{2\pi}{\lambda}(x - vt) + iA \sin \frac{2\pi}{\lambda}(x - vt)\end{aligned}$$

Chemistry notation

via *chemical equations* (ce) LaTeX package. For example: $\text{Hg}^{2+} \xrightarrow{\text{I}^-} \text{HgI}_2 \xrightarrow{\text{I}^-} [\text{HgI}_4]^{2-}$

Tables

In markdown source code, they look like:

```
| First Header | Second Header | Third Header |
|:-----: |:-----: |-----: |
| Content Cell | Content Cell | Content Cell |
| Content Cell | Content Cell | Content Cell |
| Content Cell | Content Cell | Content Cell |
```

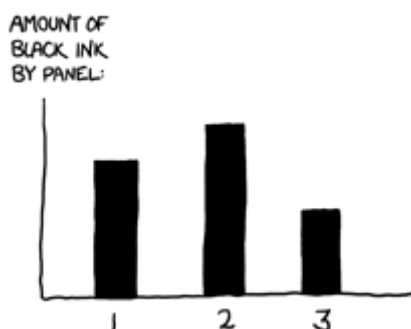
First Header	Second Header	Second Header
Content Cell	Content Cell	Content Cell
Content Cell	Content Cell	Content Cell
Content Cell	Content Cell	Content Cell

HTML support

Once markdown runs out of support, HTML might rush to rescue; e.g. if you really should insist on something being green and underlined `<u>this text is green</u>`.

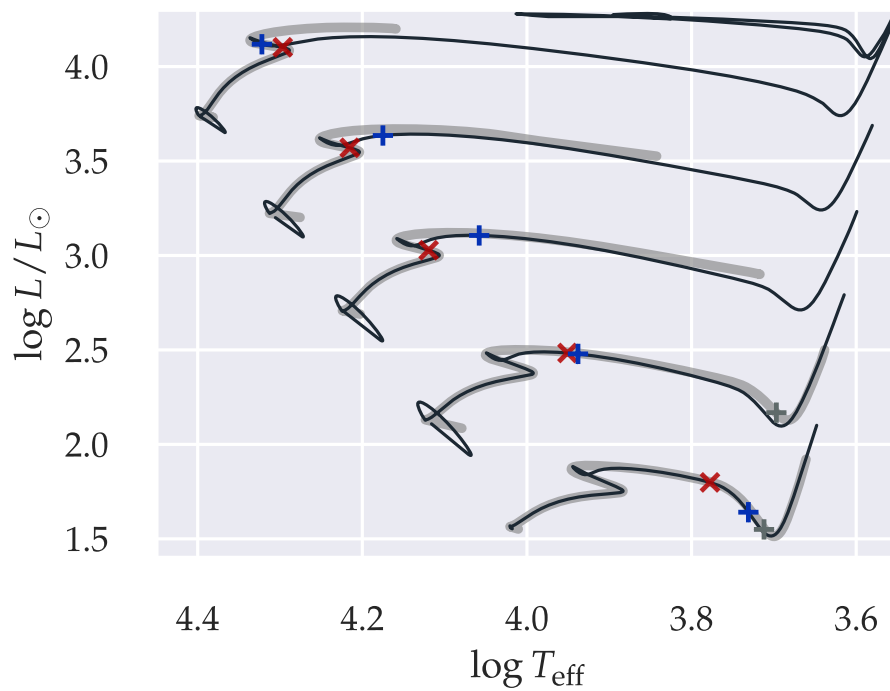
Figures and Illustrations

Most types of pixel file formats (.jpg, .tiff, .png, ...) can be *dragged and dropped* into an .md file.



However, PDF figures cannot be inserted!

A decent work-around is the intermediate storage as .svg file, and eventually a conversion to a PDF file once a final version of a figure is needed (e.g. for a publication). Through appropriate settings in the Typora *preferences*, the figures/images are collected in local subdirectories from where they can be retrieved.



Computed on 27.XI.2020, with the `project/compute_1/inlist` settings:

```
&star_job

  save_star_job_namelist = .false.

! begin with a pre-main sequence model
  create_pre_main_sequence_model = .false.

  history_columns_file = 'history_col.list'
  profile_columns_file = 'profile_col.list'

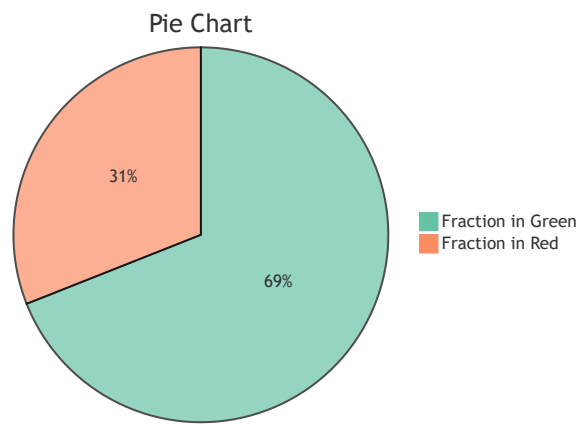
  pgstar_flag          = .true.
  pause_before_terminate = .true.

! save a model at the end of the run
  save_model_when_terminate = .true.
  save_model_filename      = 'FinalSun.mod'
```

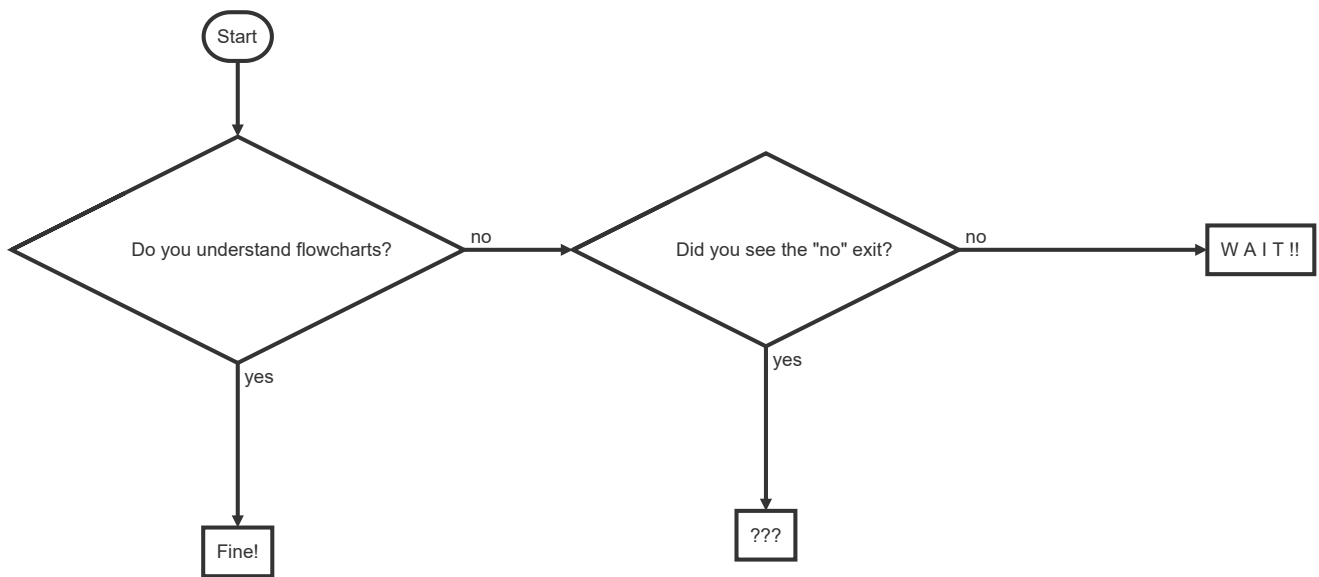
Properly tagging figures and the computational settings used to produce them helps considerably along the way to sustainable and reproducible research.

Diagrams in Typora

```
```mermaid
pie
 title Pie Chart
 "Fraction of Green" : 69
 "Fraction of Red" : 31
```
```



... or flowcharts, sequence diagrams, gantt charts (project scheduling) ... of various flavors:



for details see: <https://support.typora.io/Draw-Diagrams-With-Markdown/>

Drawbacks

- No bibliographical support-system implemented (workarounds using `pandoc` apparently work, see e.g. <https://orth.uk/markdown-for-convenient-academic-writing>)
- No tags for easier spotting of like material
- No versioning within the application itself (on the other hand, git, svn, fossil, ... are here to use)
- Still in development stage; not fully open-source. Typora might acquire a price tag once it grows out of its beta-version era
- It is not a collaborative working environment -- but just a personal scientific diary
- No tablet/mobile version available (yet)