

Image from http://www.gregroelofs.com/img_linux/linux-peng-baby-michael-rabe.jpg

Keep track of stuff you learn...

• Do it once, and remember.

- Learn, learn and learn again...
 - google every time you need something.
 - man every time you need something, then google.
 - keep everything in bash history.
 - keep the bits you need in documents
- Is there a shareable, searchable desktop wiki that uses directory structures and multiple text files so they can be stored in a source control system, and presents nice gui friendly documents?



zim

- https://zim-wiki.org/
 - This one works for me
 - Big on dog-fooding
- Works on linux, microsoft windows & apple mac
- Stores data in simple directories + text file
- Has oodles of plugins for many specific features
- Can be saved and shared via version control
- Use cases
 - Work journal
 - Web page creation
 - Mini, offline google, without the drivel.





equery depgraph zim-0.74.3

Searching for zim0.74.3 ...

```
dependency graph for x11-misc/z1m-0.74.3
```

- x11-misc/zim-0.74.3

- dev-python/pygobject-3.42.0 (dev-python/pygobject) arm [python targets_python3_8(-)]

- dev-python/pyxdg-0.27 (dev-python/pyxdg) arm [python_targets_python3_8(-)]

x11-libs/gtk+-3.24.29 (x11-libs/gtk+) arm [introspection]

x11-misc/xdg-utils-1.1.3_p20200220-r5 (x11-misc/xdg-utils) arm

dev-util/desktop-file-utils-0.26-r1 (dev-util/desktop-file-utils) arm

-- x11-misc/shared-mime-info-2.1 (x11-misc/shared-mime-info) arm

-- dev-lang/python-3.8.12_p1 (dev-lang/python) arm [sqlite]

-- dev-lang/python-exec-2.4.8 (>=dev-lang/python-exec-2) arm [python_targets_python3_8]

-- dev-lang/python-3.9.9 (dev-lang/python) arm [sqlite]

-- dev-lang/python-3.10.0 p1 (dev-lang/python) arm [sqlite]

x11-base/xorg-server-1.20.14 (x11-base/xorg-server) arm [xwfb]

-- x11-apps/xhost-1.0.8 (x11-apps/xhost) arm

x11-misc/zim-0.74.3 stats: packages (13), max depth (1)]

Basic features

- It is just a file browser
- Rename pages (text files)
- Move (drag and drop) pages
- Links to internal pages
- Links to external urls

A nice GUI

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Recipies Artichokes Barley Veg soup Beans and Barley Beets & Tatties Cabbage heads for Sarma Choco Noir Jeli pasta Mince-pies Mincemeat Neeps & Tatties Pastry Sarma Satay sauce

Created Wednesday 22 December 2021

50/50 neep / spuds

Neeps & Tames

salt

- peel & dice neeps boil for 20 minutes
 add spuds boil extra 15 minutes
- butter mash

cream

Directory structure

ls -altr Recipies/* -rw-r--r-- 1 tug tug 446 Dec 7 10:44 Recipies/Jeli_pasta.txt -rw-r--r-- 1 tug tug 372 Dec 9 16:35 Recipies/Satay sauce.txt Recipies/Beans_and_Barley.txt -rw-r--r-- 1 tug tug 300 Dec 9 16:35 -rw-r--r-- 1 tug tug 203 Dec 11 14:24 Recipies/Cabbage_heads_for_Sarma.txt -rw-r--r-- 1 tug tug 589 Dec 13 21:26 Recipies/Sarma.txt -rw-r--r-- 1 tug tug 288 Dec 22 10:19 'Recipies/Neeps_&_Tatties.txt' -rw-r--r-- 1 tug tug 204 Dec 22 10:21 'Recipies/Beets_&_Tatties.txt' -rw-r--r-- 1 tug tug 493 Dec 22 10:21 Recipies/Mincemeat.txt -rw-r--r-- 1 tug tug 308 Dec 24 11:46 Recipies/Artichokes.txt -rw-r--r-- 1 tug tug 455 Dec 24 11:48 Recipies/Pastry.txt -rw-r--r-- 1 tug tug 305 Dec 24 11:49 Recipies/Mince-pies.txt -rw-r--r-- 1 tug tug 510 Dec 24 11:52 Recipies/Choco_Noir.txt -rw-r--r-- 1 tug tug 617 Dec 26 14:12 Recipies/Barley Veg soup.txt

Text file contents

```
Content-Type: text/x-zim-wiki
Wiki-Format: zim 0.6
Creation-Date: 2021-12-22T10:17:03-05:00
```

===== Neeps & Tatties ====== Created Wednesday 22 December 2021

50/50 neep / spuds

- * salt
- * peel & dice neeps boil for 20 minutes
- * add spuds boil extra 15 minutes
- * butter mash
- * cream

My markdown is bigger than yours...

- Markdown is markup
- Lots of flavours of markdown
- Zim isn't markdown, but markup (their term)
- Plugins add specific functionality that 'pollute' any standard
- Self-contained, never need to know implementation
- Data comprehensible even if zim reaches EOL





Created Sunday 18 October 2020

WARNING - BAD i2c code can brickish this device! See Calibration sub page

Humidity and Temperature sensor



Can run on 3.3v or 5v? Tested on Pi, tobe tested on ArduinoUno

```
running on the command line in this order works
modprobe si7020
dtoverlay i2c-sensor si7020
iio name "1-0400"
```

Images (in directory structure)

Devices \$ ls -altr Si7021* -rw-r--r-- 1 tug tug 805 Sep 22 08:48 Si7021.txt

Si7021:

total 200

-rw-r--r-- 1 tug tug 149965 Sep 22 08:48 pasted_image.png -rw-r--r-- 1 tug tug 2946 Sep 22 08:48 calibration.txt drwxr-xr-x 2 tug tug 4096 Sep 22 08:48 . -rw-r--r-- 1 tug tug 39928 Sep 22 08:48 pasted_image001.png drwxr-xr-x 38 tug tug 4096 Nov 9 15:03 ..

Page contents (markdown)

Content-Type: text/x-zim-wiki Wiki-Format: zim 0.6 Creation-Date: 2020-10-18T08:02:05-04:00

===== Si7021 ===== Created Sunday 18 October 2020

WARNING - BAD i2c code can brickish this device! See Calibration sub page

Humidity and Temperature sensor
{{./pasted_image001.png}}

Can run on 3.3v or 5v? Tested on Pi, tobe tested on ArduinoUno

```
running on the command line in this order works

''modprobe si7020''

''dtoverlay i2c-sensor si7020''

''iio name "1-0400"''
```

Search ffmpeg

Search	
Search: ffmpeg	Find
Limit search to the current page and sub-pages	
Page	Score -
Tech:Command line:ffmpeg	22
Journal:2021:07:28:ffmpeg convert to pi4 friendly	18
Journal:2021:05:19	9
Projects:CabinServer:Motion	5
Tech:Video, Graphics and Audio:video sharing:youtube-dl	4
Journal:2021:04:29	2
Tech:Bash:rename change file extension	2
Tech:Gentoo:Building Gentoo:ebuild	2
Journal:2021:Week 34:motion codec	1
Tech:Command line:mediainfo	1
Tech:Hardware:HPSleekbook:Sleekbook	1
Tech:Video, Graphics and Audio:motion	1
Tech:Video, Graphics and Audio:opencv	1

Help



cut time frame from video

used to cut a video from start time to end time

ffmpeg -i input.wmv -ss 00:00:30.0 -c copy -t 00:00:10.0 output.wmv
ffmpeg -i input.wmv -ss 30 -c copy -t 10 output.wmv
ffmpeg -i input.wmv -ss 30 -c copy output.wmv

Note that -t is an output option and always needs to be specified after -i.

change format

ffmpeg -ss 0 -i Benedictus-Osanna-tenor-slow-raw.mkv -t 00:00:59.6 Benedictus-Osanna-tenor-slow.mp4

faster conversion of videos ffmpeg -i Blah.mp4 -preset ultrafast Blah.mkv

compress unnecessarily large video

ffmpeg -i source.mkv -preset veryslow -c:v libx264 source_libx264.mkv

Search: compress video

Search	
Search: compress video	Find
Limit search to the current page and sub-pages	
Page	Score -
Tech:Command line:ffmpeg	7
Help	Close

plugins

- Zim can do lots of things
 - Journal (alt-D)
 - Images, plotters (gnuplot, R)
 - Flowcharts (ditaa, sequence diagrams)
 - Tables
- Best not in a single notebook
- Edit \rightarrow Preferences \rightarrow Plugins

