



Drawj2d

Draw vector graphics to scale using a descriptive language

Brought to you by: [qwert2003](#)

reMarkable



Output to reMarkable paper tablet

Drawj2d can generate drawings in the [reMarkable paper tablet](#)'s internal line drawing format. Thus using Drawj2d you can create an editable notebook page (not limited to annotations). Once transferred to your device, you can insert the page into an existing notebook using the move functionality of the reMarkable.

HowTo

1. Create a drawing using a [text editor](#) (with UTF-8 encoding support).

An example input file *thales.hcl* is shown below.

Preview on screen: `drawj2d -Tscr -W157 -H209 thales.hcl`

- device screen width \approx 157 mm, height = 209 mm
- monochrome display, drawj2d will map colours to black, grey or white
- a line font is implemented in drawj2d: *font Lines* or *font Lines italic*. Truetype fonts will display the outlines only
- images will be approximated with black lines. Usable for b/w scans (drawings or text) but not pictures, avoid resolution \gg 200 dpi.

2. Create the reMarkable page: `drawj2d -Trmapi thales.hcl`.

Drawj2d will generate a reMarkable notebook *out-thales.zip* containing the line drawing.

- The zip includes metadata files required for uploading. *-Trm* would create the file *out-thales.rm* only.

3. Connect to the cloud storage using [rMAPI](#): `rmapi`

- There are downloads for Linux, Mac and Windows. For Windows the program file is *rmapi.exe*, add the suffix ".exe" if it is missing.
- The first time rMAPI connects to the cloud storage, you are prompted to enter a one-time code (log into your reMarkable account to get it).

4. Upload the zip file to the cloud, still using [rMAPI](#): `put out-thales.zip`

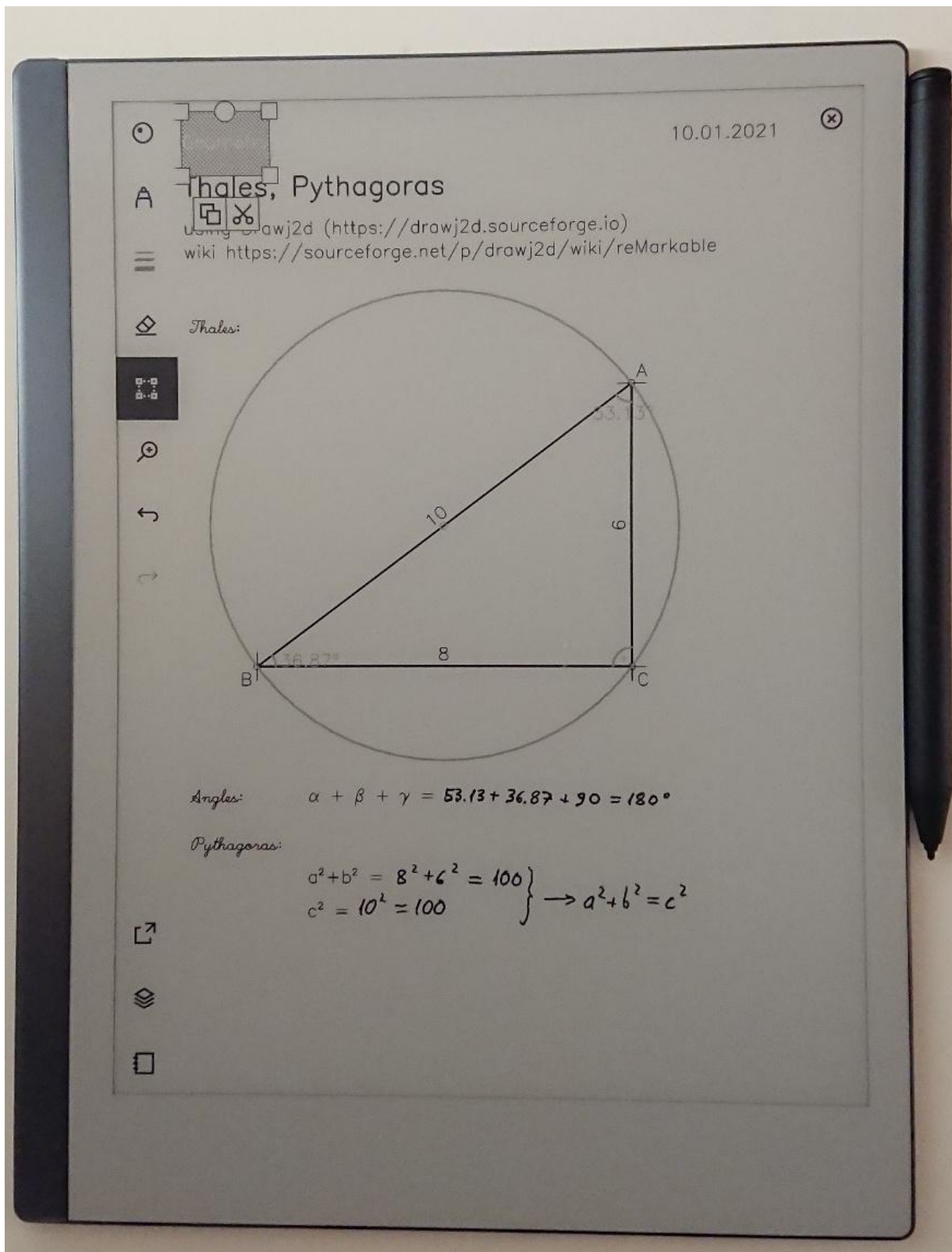
- list the notebooks, *out-thales* should be there: `ls`
- quit rMAPI: `exit`

The page created by drawj2d should now appear in the notebook *out-thales* on your reMarkable tablet. You can edit it like a page drawn directly on the device.

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No, Thank you



Input files

Embed a pdf page. In the most simple case the drawj2d input file (suffix `.hcl`) contains just one line.

image page.pdf

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Embed page 5 of a pdf file:

No, Thank you

image article.pdf 5

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For more options refer to the [manual](#). Pdf files are interpreted, thus drawj2d redraws the vector data (instead of embedding a picture). Thus the rM notebook page will consist of lines that can be edited on the device. Fonts will render as outlines (limitation of the rM notebook file format).

More information

- [Drawj2d web site](#)

- [Wiki Examples page](#)

- [Drawj2d Manual](#)

Example drawj2d input file *thales.hcl*:

```
font Lines

moveto 15 10; label {Geometry} BL
movetox 140; label "[today]" BW

font bold 6
moveto 15 20
text {Thales, Pythagoras}
font plain 4
text {using Drawj2d (https://drawj2d.sourceforge.io)}
text {wiki https://sourceforge.net/p/drawj2d/wiki/reMarkable}set B {0 0}
  set C {8 0}
  set A {8 -6}
  dimline dots; font plain
  dimline $B $C; label C SE
  dimlineto $A; label A NE
  dimlineto $B; label B SW
  pen gray
  dimangle $B $A $C
  dimangle $C $B $A
  dimangle $A $C $B
  dot [geom.online $A $B 0.5]
  circle [geom.dist $A]
endblock

pen black
moveto 15 150
font italic
label {Angles:}
moverel 25 0
font plain
label { $\alpha + \beta + \gamma =$  }

moveto 15 160
font italic
label {Pythagoras:}
moverel 25 7
font plain
label { $a^2+b^2 =$  }
moverel 0 7
label { $c^2 =$  }
```

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