

The Open Source Python Font Production Pipeline

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Google

FontTools

UFO

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FontTools

A F D K O

Noto

Noto pipeline

- glyphsLib
- robofab vs extractor

Noto pipeline

- glyphsLib
- robofab
- ufo2fdk

Noto pipeline: feaLib

- glyphsLib
- robofab
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations

Noto pipeline: mtiLib

- glyphsLib
- robofab
- ufo2fdk → ufo2ft
- fontTools.feaLib / fontTools.mtiLib
- booleanOperations

Noto pipeline: MutatorMath

- glyphsLib
- robofab
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations

Noto pipeline: cu2qu

- glyphsLib
- robofab
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations
- cu2qu

Noto pipeline: defcon

- glyphsLib
- ufoLib
- ~~robFab~~ → defcon
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations
- cu2qu

Noto pipeline

- glyphsLib
- ufoLib
- defcon
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations
- cu2qu

Noto pipeline: compreffor

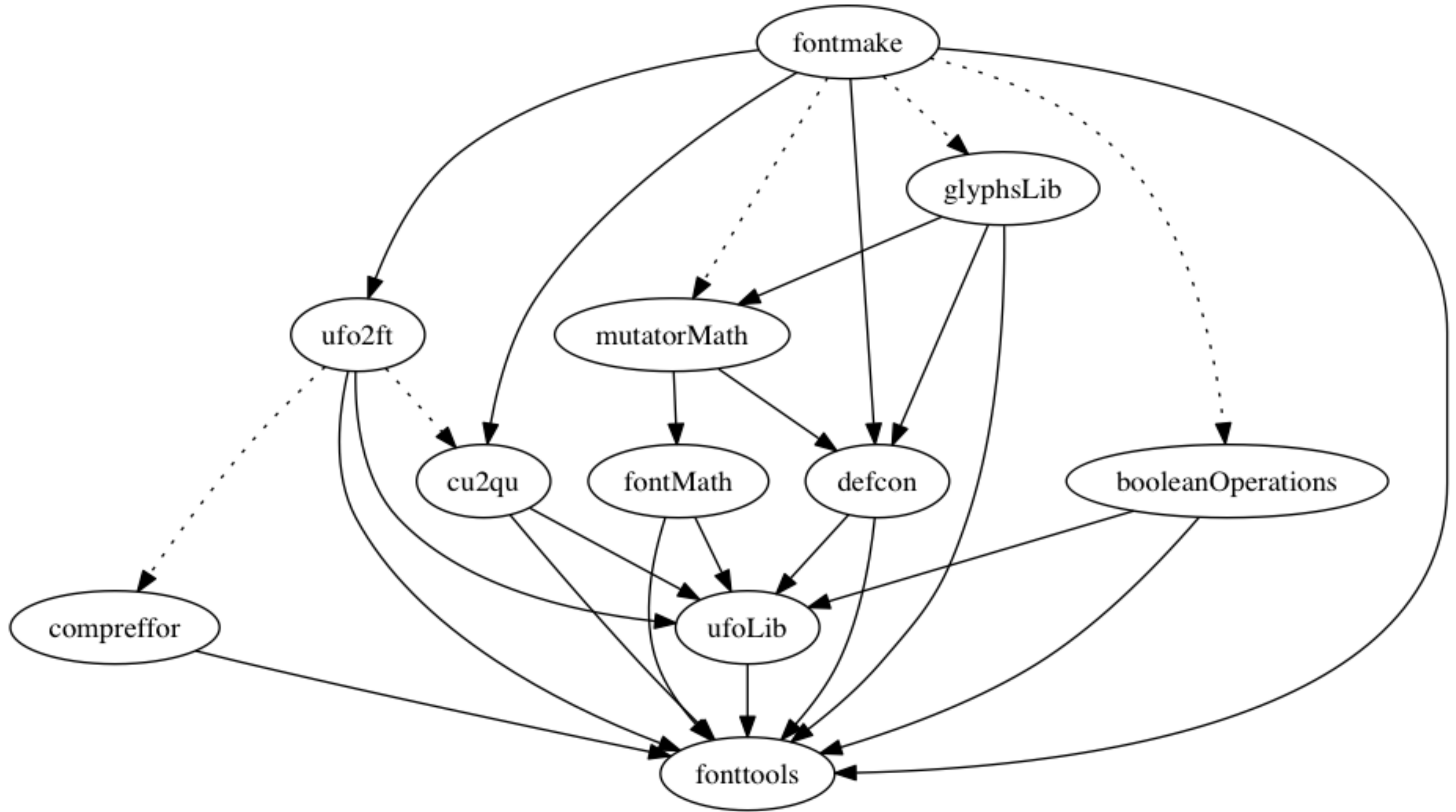
- glyphsLib
- ufoLib
- defcon
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations
- cu2qu
- compreffor

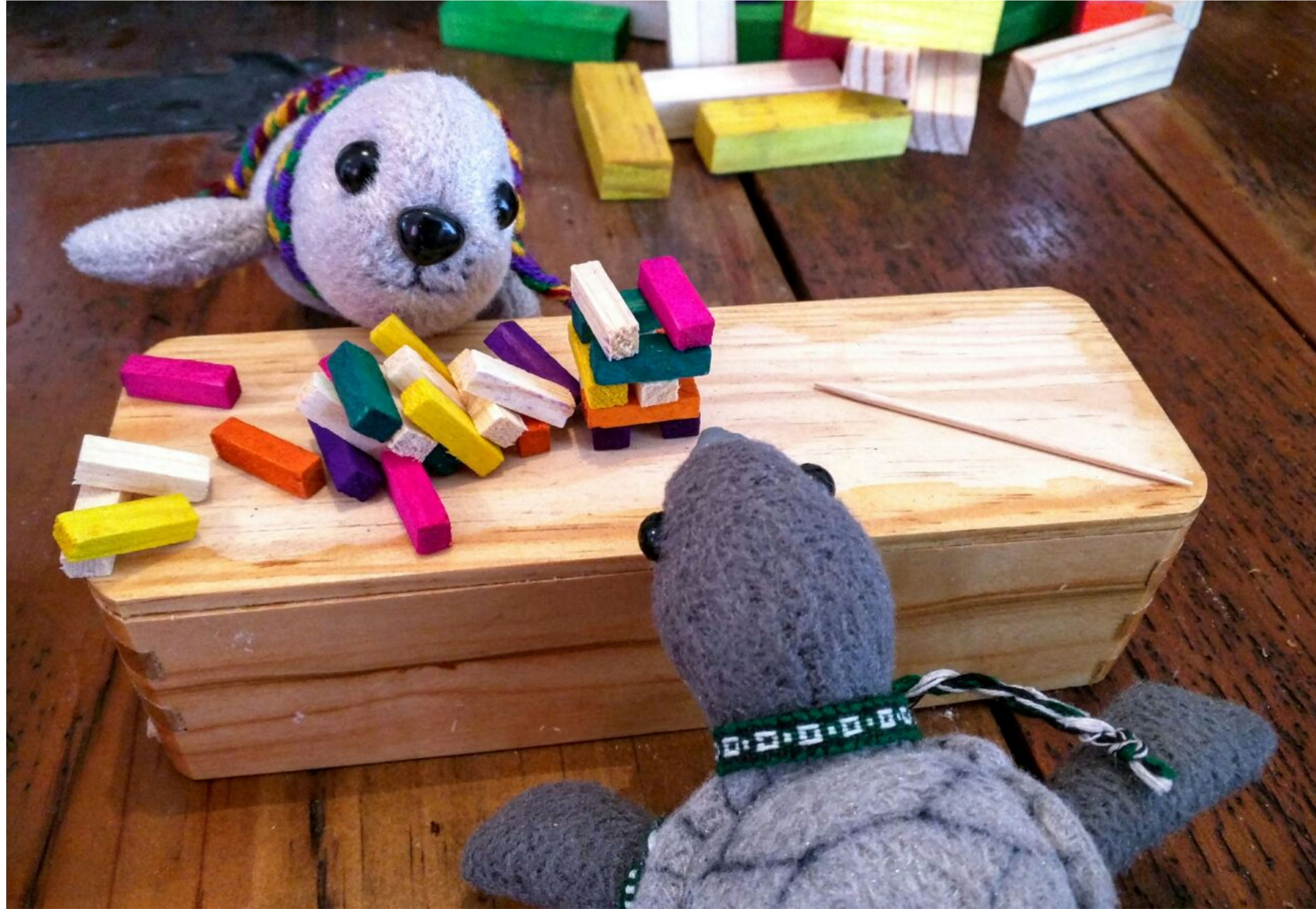
Noto pipeline: ttfautohint

- glyphsLib
- ufoLib
- defcon
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations
- cu2qu
- compreffor
- ttfautohint

Noto pipeline: fontmake

- glyphsLib
- ufoLib
- defcon
- MutatorMath
- ufo2fdk → ufo2ft
- fontTools.feaLib
- booleanOperations
- cu2qu
- compreffor
- ttfautohint
- fontmake





Noto pipeline: challenges

- Dependency hell
- Stability
- Speed
- Flexibility

Noto pipeline: TODO

- fontTools.varLib
- CFF operator specializer
- FDK hinter

github.com/googlei18n/fontmake
github.com/googlei18n/glyphsLib
github.com/unified-font-object/ufoLib
github.com/typesupply/defcon
github.com/LettError/MutatorMath
github.com/typesupply/fontMath
github.com/googlei18n/ufo2ft
github.com/typemytype/booleanOperations
github.com/googlei18n/cu2qu
github.com/googlei18n/compreffor
github.com/behdad/fonttools
github.com/googlei18n/noto-source
www.freetype.org/ttfautohint/

Q & A