

mkfont documentation

A. CLI Invocation

`mkfont -i <input file> [-o <output file>] [-f]`

where:

- <input file> is the path to the font spec file written in the mkfont language;
- <output file> is the path to the folder in which the UFO font will be written (if it is not specified, a reasonable name is computed from the input file name)
- the -f flag lets mkfont overwrite an existing font folder.

B. The mkfont language

mkfont uses a stack based language to build a font specification. there are a number of commands available in all scopes (maths, variables, macros) and some commands available only in specific scopes

B.I. Literals

String literal any character except " enclosed in ". *It is a known limitation in mkfont 0.2.0.0 that " cannot be escaped in string literals*

Character literal # followed by any single individual character.

Integer literal A sequence of decimal digit ([0-9]) optionally preceded by -, or a sequence of hexadecimal digits ([0-9a-fA-F]) preceded by 0x.

Symbol ' followed by a valid identifier name (raw("[a-zA-Z._]+"))

Token list literal any number of valid tokens enclosed in a balanced pair of square brackets ([]).

B.II. General commands

B.II.1. Maths

+ b : int, a : int → a + b : int
- b : int, a : int → a - b : int
* b : int, a : int → a × b : int
/ b : int, a : int → floor(a / b) : int
~ b : int, a : int → floor((a + b) / 2) : int

B.II.2. Variables

: n : symbol, a : any → (), stores the value of a in variable n
@ n : symbol → a: any, fetches the value of variable n, errors out if n is undefined.
! m: symbol | tokenlist → (), if m is a symbol it is dereferenced ('sym ! is syntax sugar for 'sym @ !). If after desugaring, the value isn't a tokenlist, the interpreter errors out. otherwise, the tokenlist is prepended to the list of tokens to evaluate

B.II.3. Stack manipulation

swp $b: \text{any}, a: \text{any} \rightarrow a: \text{any}, b: \text{any}$

dup $a: \text{any} \rightarrow a: \text{any}, a: \text{any}$

kil $a: \text{any} \rightarrow ()$

C. The structure of a font specification

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