Changelog

All notable changes to this project will be documented in this file.

6.2

• Fixed monospaced property #1325

6.1

• Fixed hinting settings to match Glyphs export #1315

6.0

Unicode:

- Fixed height of ∑ U+2211 N-ARY SUMMATION #1083
- Added U+2241..U+224B $\not\sim$ \approx \simeq \simeq \simeq \simeq \simeq \approx #1090
- Added new enclosed characters from Unicode 13 U+0229C ⊜ , U+1F10D , U+1F10E , U+1F10F ,
 U+1F16D , U+1F16E , U+1F16F , U+1F1AD #1070
- Redrew U+27F0..U+27FF Supplemental Arrows-A to be strict monospace
 ♦○ ♦ ← → ← ⇒ ← → ← ⇒ ★ +1109 #1123
- Added U+220E End of Proof #1115
- Added U+FFFD Replacement Character #1137, thanks @gjvnq
- Added U+EE00..U+EE0B Progress Bar #1182
- Added U+2237 Proportion :: #1219

Changed:

- Fixed weird look of ::< ::> <:: >:: #1145
- --- now makes a line #1190

Removed:

- C-style compound assignment >>= <<= ||= |= are not combined with equal sign by default. Old behavior is moved into ss09 #974
- Restored short | by default, long one moved to cv30 #843 #1160
- Moved .- into cv25 #670 #860 #1103
- Moved .= into cv32 #670
- Removed named "Retina" instance from FiraCode-VF.ttf (you can still get it by setting wght=450) #1318

Added (variants):

- Alternative a cv01 #949
- Alternative g cv02 #886
- Alternative i cv03 cv06
- Alternative 1 cv07 cv10 #899
- Alternative 0 cv11 cv13
- Alternative 3 cv14
- Top-aligned * cv15
- Hexagonal * cv16 #708 #1134
- Top-aligned ~ cv17
- Alternative % cv18

- <= with a horizontal bar cv19
- <= as an arrow cv20 #34 #696 #858</p>
- =< as less than or equal cv21 #34
- =< as less than or equal with horizontal bar cv22 #34
- >= with a horizontal bar cv23
- /= as not equals cv24 #125
- Added :- to cv26 #790
- Returned [] as cv27
- Returned { . . } as cv28 #875 #635 #409 #279 #264 #214
- Alternative {} cv29
- Returned full ligatures for F1 T1 fi fj f1 ft as ss10
- Alternative () cv31 #1198

5.2 (June 12, 2020)

• Fixed hinting problems caused by build_ttf #1075

5.1 (June 10, 2020)

• Fixed monospace property broken by adding threeemdash #1073

5.0 (June 8, 2020)

- Fixed Box drawing diagonal lines U+2571 / U+2572 \ U+2573 \ X #929
- Added U+2236 Ratio : #926
- Added U+2E3A 2-em dash , U+2E3B 3-em dash #1019
- Fixed arrows next to lowercase letters #1049 #1059
- Vertically-aligned colons, greater/less signs #980 #1061
- Make U+2388 Helm Symbol * single-width #1036
- Disable =/ because of conflicts with paths PATH=/... #1056
- Fixed STAT table in FiraCode-VF.ttf #770 #1054
- Added //= =// =//= #816
- Added U+21B0..U+21B3 ។ የ ል , U+2770..U+2771 () #1032
- Fixed U+27F8 ← U+27F9 ⇒ U+27FA ⇔ U+27FD ← U+27FE ⇒ U+27FF → that were broken in v4 #1067
- Added ss08 that adds gaps to == === != #187 #383
- Removed OTF from distr to avoid confusion #939

4.0 (May 18, 2020)

Removed 44 individual arrow ligatures, replaced with four universal, combinative substitutions. 100-150% faster shaping performance, infinite amount of arrow combinations.

- Arbitrary-long combinative hyphen-based arrows #346 #494 #713 #826 #968 #983 #1029
- Arbitrary-long combinative equal-based arrows #229 #234 #346 #494 #698 #826 #919 #931 #946 #948 #968 #1016 #1018 #1022
- Arbitrary-long underscores #120 #269 #346 #494
- Arbitrary-long numbersign sequences #1014
- Fixed descender in U+040F ↓
- Undid #995 and properly fixed U+04CB ч , U+04CC ч #1001 and U+0449 щ #1007
- Added ||| to prevent partial ligatures in |||-||| #346

3.1 (April 15, 2020)

- Fixed width of Germandbls, cornerbracketleft, cornerbracketleft, negativeAcknowledge-control, cornerbracketleft.half, cornerbracketright.half [#1000]
- Fixed misplaced descenders on U+04B3 x U+04CB y and U+04CC y [#995]
- Fixed U+03F4 ⊕ [#996]
- Fixed U+0314 COMBINING REVERSED COMMA ABOVE [#997]

3.0 (April 9, 2020)

- Disabled ligatures in progress bars [-> [--> [--> [=> [==> [#968]
- Added set letters U+2102 C U+210D H U+2115 N U+2119 P U+211A Q U+211D R U+2124 Z and U+1D539 B [#841]
- Removed ?: [#970]
- Added U+300C U+300D Corner brackets [] and U+FF62 U+FF63 Halfwidth Corner brackets [] [#940]
- Added <<->> [#919]
- Disabled f1 F1 T1 ligatures, adjusted 1 height in combination with [F T I f] instead [#902]
- Added U+25A4..25A9 Squares with fill ■□■■図図図 [#450]
- Slightly tuned multiple ampersands in ss03 [#831]
- Fixed horizontal bar height in <!-- [#917]
- Fixed multiply sign in <code>OxFF</code> and <code>10x10</code> with combination of <code>onum</code> and <code>zero</code> [#888]
- Fixed dollar sign in <\$ \$> <\$> when ss04 is active [#830]
- Removed ss19 and ss20 (they are covered by zero and onum)
- Added =~ and !~ to ss07 [#293]
- Removed ~= [#381]
- Re-added ..= with just a subtle spacing adjustment [#934]
- Added U+2630..U+2637 ========= (Bagua trigrams) [#859]
- Disabled <?= (?= after <) [#850]
- Added SemiBold weight [#987]
- Replaced single LIG with per-glyph *.spacer

2.0 (September 9, 2019)

- Characters U+25DE and U+25DF were swapped [#761]
- Added Mathematical Angle Brackets U+27E8 (U+27E9) [#763]
- Added Light and heavy dashed lines U+2504..U+250B ----- [[#702]
- Adjusted Box drawings double dashes U+254C..U+254F ---- | |
- Fixed outlines of U+04FA 🗜 and U+04FB 🕫 [#806]
- Added Not identical to U+2262 ≡/ [#396]
- Added Latin Capital Letter Sharp S U+1E9E ß [#587]
- Tuned position and width of U+2044 Fraction Slash / [#588] and U+2215 Division Slash / [#805]
- Added U+1405 Canadian Syllabics O ▷ and U+140A Canadian Syllabics A < [#666]
- Added U+2234 Therefore : and U+2235 Because : [#669]
- Added U+239B..U+23AD multi-line brackets [#675]

```
    1
    | a | (x)

    2
    | b | y

    3
    | c | z
```

```
\left(\begin{array}{c|c}4\\5\end{array}\right)\left[\begin{array}{c|c}d&&\\y&\\x\end{array}\right]
```

- Added U+27F0..U+27FF Supplemental Arrows-A ♡♡⋒₩⊕←→←⇐⇒⇔←□→⇐⇒→→ [#677]
- Added U+2400..U+2426 Control Pictures

```
ACK BS BEL, 16 CAN CR DLEDEL 16 DC4DC1DC3DC2 EM ETXEOTETBENQESC FS FF GS HT LF NAK NL NUL RS SI SO SP SOHSTXSUB SYN US VT [#764]
```

- Added U+2388 Helm Symbol # [#766]
- Added U+2016 Double Vertical Line | [#780]
- Tuned metrics (1870,-530 -> 1800,-600, upm 2000 -> 1950, hopefully fix [#241] [#252] [#459] [#552] [#798])
- Box characters to not overflow line height, taller | [#449]
- Added few technical symbols [#799]:
 - U+21A9 Leftwards arrow with hook (Return) ↔
 - U+21DE Upwards arrow with double stroke (Page Up) \$
 - U+21DF Downwards arrow with double stroke (Page down) \$
 - o U+21E4 Left Tab Arrow ←
 - o U+21E5 Right Tab Arrow →
 - o U+2300 Diameter sign ∅
 - U+2303 Up Arrowhead (Control) ^
 - U+2304 Down Arrowhead
 - o U+2305 Projective ⊼
 - o U+2306 Perspective ₹

 - U+2324 Up Arrowhead between two horizontal bars
 - o U+2325 Option Key ~
 - O U+2387 Alternative Key Symbol →
 - o U+238B Broken Circle with Northwest Arrow (Escape) ⊗
 - U+23CF Eject symbol ▲
- Added Coq logical and /\ and logical or \/ ligatures, U+2227 \(\Lambda \) and U+2228 \(\mu \) [#191] [#488]
 [#738] [#810]
- Added SystemVerilog |-> |=> and <-| <=| for symmetry [#695]
- Added Forces | | ligature and U+22A2...U+22AF | ⊢ | | ⊤ ⊥ | ⊢ | ⊨ | ⊢ | | ⊨ | ⊬ | ⊭ | | # [#709]
- Added fl Fl Tl ligatures, adjusted fi fj pairs [#795]
- Removed ..= [#757]
- Alternatives (stylistic sets):
 - Lowercase r (ss01) [#601]
 - Less than/greater than <= >= (ss02) [#263] [#617]
 - Ampersand & (ss03) [#371] [#617]
 - o Dollar sign \$ (ss04) [#617]
 - At sign @ (ss05) [#617] [#748] [#817]
 - Thin backslash (ss06) [#577 #720 #825]
 - o Dotted zero 0 (zero, ss19)
 - o Old-style figures (onum, ss20) [#561] [#715]
- Old-style figures no longer prevent ligatures [#561] [#715]

1.207 (April 6, 2019)

- Variable TTF, cleaned up many small Light weight errors (done by @thundernixon, PR #735)
- Dropped EOF which were only useful for IE 6-11
- Fixed different vertical position of <= >= in Light and Bold caused during [#483]

1.206 (September 30, 2018)

- Added <==> ([#392]), #: ([#642]), !!. ([#618]), >: :< ([#605]), U+0305 Combining overline ([#608]), U+2610 Ballot box, U+2611 Ballot box with check, U+2612 Ballot box with x ([#384])
- Fixed incorrect width of [** ([#607])
- Redrew { | | | | [| | |] ([#643])
- Removed { . . } ([#635]), thin backslash ([#577])
- Disabled ligatures in (?= (?<= (?: ([#624]), >=< ([#548]), {|} [|] ([#593])
- Fixed ligatures precedence in <||> ([#621]), :>= ([#574]), <<*>> <<+>> <<+>> <<+>>> <<+>>
- Fixed incorrectly swapped box drawing characters | and | ([#595])
- Adjusted vertical position of <= >= to align with < > ([#483])

1.205 (February 27, 2018)

- Slashed zero by default ([#481] [#342])
- Adjusted vertical position of colon : near { [()] } ([#486])
- Thin backslash except when in \\ , removed \\\ ([#536])
- Added :> ([#547]) and <: ([#525])
- Removed =< ([#479] [#468] [#424] [#406] [#355] [#305])
- Added ::= ([#539])
- Added [| |] ([#516]) {| |} ([#330])
- Added ✓ (U+2713)
- Added ..= ([#433])
- Added =!= ([#338])
- Added |- -| _| and adjusted |= ||= ([#494])
- Added #= ([#208])

1.204 (November 6, 2016)

- Added U+25B6 (black right-pointing triangle) and U+25C0 (black left-pointing triangle) (#289)
- Changed look of Markdown headers ## ### #### to make them easier to tell apart (#287)
- Fixed BBEdit incorrectly applying ligatures after tab (#274)
- Returned Nim pragmas { . . } (#279)
- Added Unicode increment U+2206 (#174, #298)
- Added fish operators >-> <-< (#297)
- Added safe navigation operators ?. .? ?: (#215)
- Added <~> (#179, used in IntelliJ for collapsed methods)
- Added F# piping operators ||> |||> <|| <|| (<u>#184</u>)
- Added shebang #! (<u>#169</u>, <u>#193</u>)

1.203 (September 17, 2016)

• Added (<u>#120</u>, <u>#269</u>)

1.202 (September 17, 2016)

• Removed { . . } [. .] (. .) (#264)

1.201 (August 30, 2016)

- Removed [] (<u>#92</u>) {- -} (<u>#248</u>)
- Removed /** **/ and disabled ligatures for /*/ */* sequences (#219 #238)
- Added] # {. .} [. .] (. .) (<u>#214</u>)

1.200 (July 18, 2016)

- Removed !!! ??? ;;; &&& ||| =~ #167 ~~~ %%%
- New safer calt code that doesn't apply ligatures to long sequences of chars, e.g. !!!! , >>>> , etc (#49, #110, #176)
- Larger + * and corresponding ligatures (<u>#86</u>)
- Hexadecimal x (0xFF) is now applied to sequences like 128x128 as well (#161)
- Added twoTurned (U+218A) and threeTurned (U+218B) (#146)
- Added whiteFrowningFace (U+2639) (#190)
- Simplified visual style on markdown headers ## ### #### (#107)
- Added </> (<u>#147</u>)
- Provided ttf and webfonts versions (eot, woff, woff2) (#18, #24, #38, #101, #106)
- Increased spacing in <= >= (#117)

1.102

- Support for IntelliJ-based IDEs (instructions)
- Turned on autohinting

1.101

- · Added Light weight
- Adjusted rules when vertical centering of : , , * and + occurs

1.100

- Fixed calt table conflicts (---- would incorrectly render as <!--)
- Added centered : (between digits, e.g. 10:40)
- Added lowercase-aligned , * and + (only between lowercase letters, e.g. kebab case var-name , pointers *ptr etc)

1.000

Added weights:

- Retina (just slightly heavier than Regular)
- Medium
- Bold

Switched to calt instead of liga . You can now "step inside" the ligature in text editors.

Fira Code is now drawn and built in Glyphs 2 app (should improve compatibility).

Added:

```
<-> <~~ <~ ~~ ~~ ~> ~> <$ <+ <* *> +> $> ;;; ::: !!! ??? %% %%% ##

### #### .- # ( =< **/ 0x www []
```

Redrawn:

```
{- -} ~= =~ =<< >>= <$> <=> .=
```

Removed: ?:

Total ligatures count: 115

0.6

Redrawn from Fira Mono 3.204 (slightly heavier weight)

Added:

Added support for Powerline

0.5

Added: #{ ~- ~~ <== ==> /// ;; </

0.4

- Added ~= ~~ #[
- Rolled back && and || to more traditional look
- === and !== are now rendered with 3 horizontal bars

0.3

Added: ~@ #? =:= =<

0.2.1

Fixed width of && and ||

0.2

Added: --> <-- && | | =>> =/=

0.1

```
    >>=
    <<</td>
    <</td>
    ->
    ->
    ==
    ++

    #( #_ :: ... .. !! // /* */ />
```