

Overview of VOLT

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مرکز تحقیقات اردو

Physical Modeling: Phases

1. Scanning
2. Vectorization
3. Generation of TTF File
4. Embedding of OpenType Tables

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Available Tools for Open Type Font

- Visual Open Layout Tool (VOLT)
- True Type Assembler (TTOASM)
- Font Development Kit (FDK)
- FontLab

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Why VOLT?

- Takes TTF and embed OTF tables in it.
- Better visual layout support
- Easy to use, No need of prior knowledge of scripting and Coding

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Conversion of TTF to OTF through VOLT

1. Acquisition of TTF file
2. Assigning Unicode
3. Assigning names
4. Assigning type to glyphs
5. Adding script, language and features tag in font file
6. Creating groups according to classification done at logical level

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Conversion of TTF to OTF through VOLT (contd.)

7. Adding substitution lookups
8. Adding positioning lookups
9. Compilation of font
10. Checking font with Proofing tool
11. Saving and shipping of font

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Starting with VOLT

1. Acquisition of TTF file
2. Assigning Unicode
3. Assigning names
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Assigning type to glyphs

- Glyph Definition Table (GDEF)
 - Simple glyph
 - Ligature glyph
 - Combining mark glyph
 - Glyph components

ب
اللہ
محمد
لا = ل + ا

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Adding Script, Language and Feature tags

- Add Script
 - arab
- Add Language
 - URD
 - FAR
- Add Feature
 - init
 - medi
 - fina

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Classification

Class	Context After	Shapes
<A>	اب درج س ع ف ق ك ل م ن و ه لا	ا.ب.ج.د.ه.و.ز.ح.ط.ظ.ع.ف.ق.ك.ل.م.ن.و.ه.لا
	ص ط ه	ص.ط.ه
-	ر م ی	ر.م.ی
-	ے	ے
-	ر	ر

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Adding Substitution Lookups

- Glyph Substitution Table (GSUB)
 - Substitution Type
 - Single Substitution
 - Multiple Substitution
 - Ligature Substitution
 - Alternative Substitution
 - Text Flow
 - Context Area

ت ← ت
آ ← ا
ل ← لا
بم ببعو

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Adding Positioning Lookups

- Glyph Positioning Table (GPOS)
 - Single Adjustment
 - Pair Adjustment
 - Caret Positioning
 - Cursive Attachment
 - Anchor Attachment

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References

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Any Question ?

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