

Physical Modeling of Nafees Nasta'leeq for Urdu

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مرکز تحقیقاتِ اردو

Things to Discuss

- Physical Modeling
 - Scanning
 - Vectorization
 - Generation of True Type Font File
 - Embedding of OpenType Tables

Embedding of OpenType Tables

- Assigning Glyph Types
- Adding script and language information in font.
- Adding Glyph Groups
- Inserting Glyph Substitution Rules
- Inserting Glyph Positioning Rules

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Assigning Glyph Types

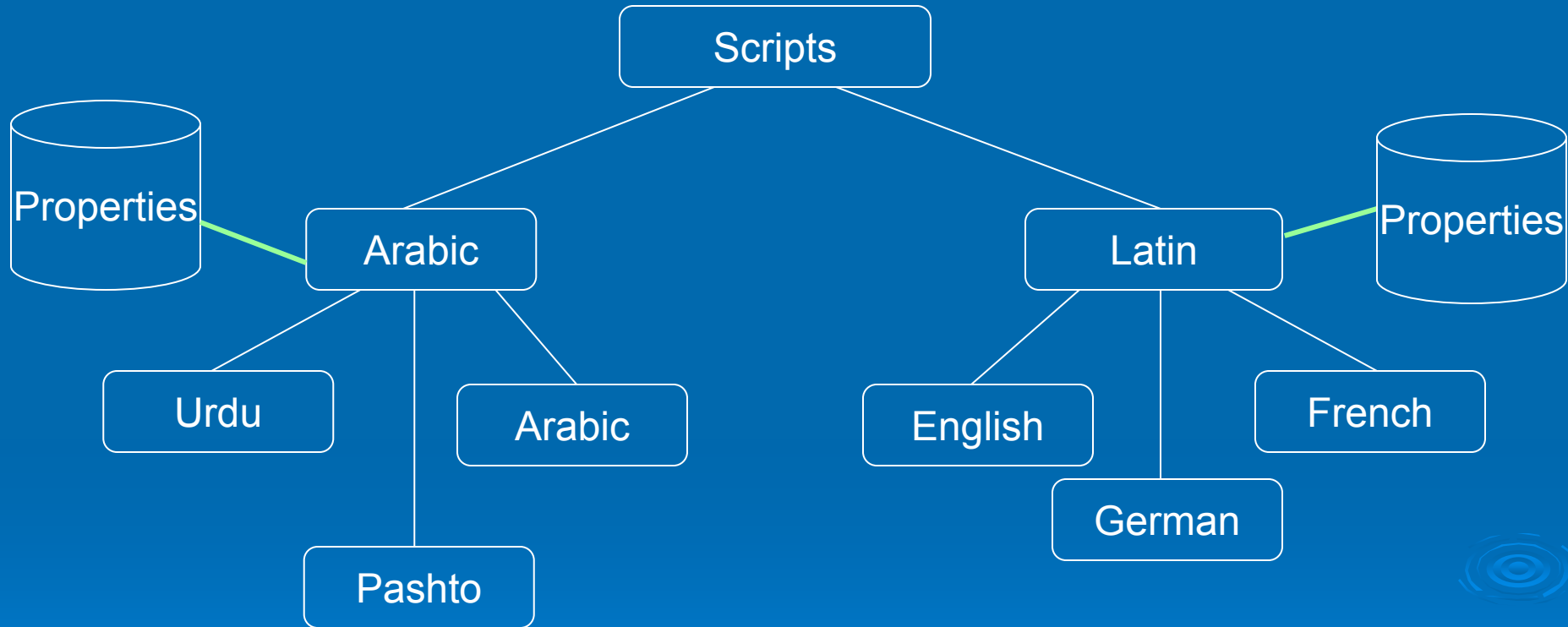
- There can be three types of glyph
 - Simple glyph
 - Ligature glyph
 - Combining mark glyph

ب
الله
محمد

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Adding Script and Language Information in Font.






Adding Script and Language Information in Font.

- Adding Script
 - Arabic
- Adding Language for Arabic Script
 - dflt [for all languages in Arabic Script]
- Adding Feature
 - Initial Form
 - Medial Form
 - Final Form
 - Context Sensitivity

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Adding Glyph Groups: Classification as in Logical Model

Class	Context After	Shapes
<A>	ادك	
-	ب	
-	ج	

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Inserting Glyph Substitution Rules

- This tables is needed to perform glyph substitution according to context
- The Substitution Types are set automatically when rules are assigned
- The text flow is right to left for Urdu

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Inserting Positioning Rules

- This table is used to position Marks
- This is used to adjust glyph that cannot be handled at True Type level
- The proportional spacing and Nuqta placement can also be done using positioning rules.

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Any Question ?

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