

Getting the Info Using Orthography Statements

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Introduction

What information do you need?

Where do you get it?

An Orthography Statement

- Written by the linguist
- Describes the orthography
- Difficult to track down
 - Front of dictionary

Different scripts, different hot issues



Encoding

What is the character set?

- Not just 'the alphabet'
- Vowels, tone marks, punctuation, numbers

Do they behave like other Unicode characters?

- Is casing the same?
- Sequence or unit for à?



Rendering: 1

What is the basic glyph set

- Variant forms of characters
- Decide in conjunction with font designer

How do the characters behave?

- What combines with what how?



Rendering: 2

Line breaking

- Special characters? Space, punctuation, etc.
- Hyphenation issues
- Using a syllable statement
 - Usually poorly written – just a phonological list
 - Needs to be written in terms of orthography



Analysis

Sort order

- Any special behaviours?
- Any special re-ordering?
- Secondary ordering issues



Keyboarding

Not part of an orthography statement

Made to order



Conversion

Relationship between writing systems

- Through the phonology
- Under specification in the source script
- Over specification in the target script

Multi-script encodings

- Which base script



The Orthographic Block

Different bases

- Orthographic Syllable
- Cluster
- Word

Different Uses

- Cursor placement and unity – cluster
- Re-ordering – syllable
- Line breaking – word or syllable or cluster

Difficult to resolve



Script Specific Issues

Roman

- Hyphenation
- Diacritic placement (Vietnamese vs IPA)

Arabic/Hebrew

- Character forms
- Bi-directional properties
- Diacritic collision

Indic

- Orthographic syllable
- Diacritic positioning and interaction



Contact Information

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