Virtual Keyboard

Siavash Shahshahani
Michael Bauland

CORE Association
Knipp Medien und Kommunikation GmbH

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Agenda

1. Motivation #1 (typing)
2. Motivation #2 (domain label meta-info)
3. Keyboard Overview
4. Practical Examples
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Arabic Script Usage
Arabic Script TLD

An innovative totally Script-based IDN TLD

Not Based On One Single Language
Basic Domain Data

Launch Phase: open

Script: Arabic (Arab)

Domain Name(s):
1. xn--mgbab2bd
2. xn--zgb7e23ab
3. xn--ghb9iyh

Period (Years): 1

Registrar:

AuthInfo: An AuthInfo will be generated.
BASIC DOMAIN DATA

Launch Phase*: open

Script*: Arabic (Arab)

Domain Name(s)*:
1. بازار
2. ماني
3. يفر
4. 
5. 

Period (Years)*: 1

Registrar*:

AuthInfo: An AuthInfo will be generated.

Next
English Keyboard
Agenda

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2 Motivation #2 (domain label meta-info)

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4 Practical Examples
IDN Table

- Accessible via the IANA IDN repository
  https://www.iana.org/domains/idn-tables/tables/xn--mgbab2bd_arab_1.0.txt
- Contains letters from different Arabic languages
- Complex (context sensitive) rules to validate labels and to generate variant labels (and their canonical form)
Example Rule

Comment: YEH Group (part 1)
Look-behind:
Pattern: U+064A | U+06CC
Look-ahead: {T}* {RD}
Index: U+064A
Variants: U+064A, U+06CC

Comment: YEH Group (part 2)
Look-behind:
Pattern: U+0649 | U+06CC
Look-ahead: {T}* {UL} | $
Index: U+0649
Variants: U+0649, U+06CC

• {L} denotes characters that are left-joining
• {R} denotes characters that are right-joining
• {D} denotes characters that are dual-joining (i.e. both left- and right-joining)
• {U} denotes characters that are unable to join
• {T} denotes combining characters
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Practical Examples

- Example 1: باڤاریا
- Example 2: میشی
- Example 3: پھل

keyboard.nic.بازار