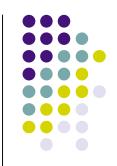
# **History of IDN**

**APNIC Beijing 2009** 



James Seng



### **Internationalized Domain Names**

#### Clickable links, should work in all browsers.

مثال إختبار //: http://

http://例子.测试

http://例子.測試

http://παράδειγμα.δοκιμή

http://उदाहरण.परीक्षा

http://例え.テスト

http://실례.테스트

مثال آزمایشی //: http://

http://пример.испытание

http://உதாரணம்.பரிட்சை

http://טעסט//

#### For pasting or typing, requires full IDN support.

مثال إختبار //: http://

http://例子.测试

http://例子.測試

http://παράδειγμα.δοκιμή

http://उदाहरण.परीक्षा

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مثال أزمايشي //:http

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http://உதாரணம்.பரிட்சை

http://טעסט//

#### Script

Arabic

Simplified Chinese

Traditional Chinese

Greek

Devanagari

Kanji, Hiragana, Katakana

Hangul

Perso-Arabic

Cyrillic

Tamil

Hebrew

#### Language

Arabic

Chinese

Chinese

Greek

Hindi

Japanese

Korean

Persian

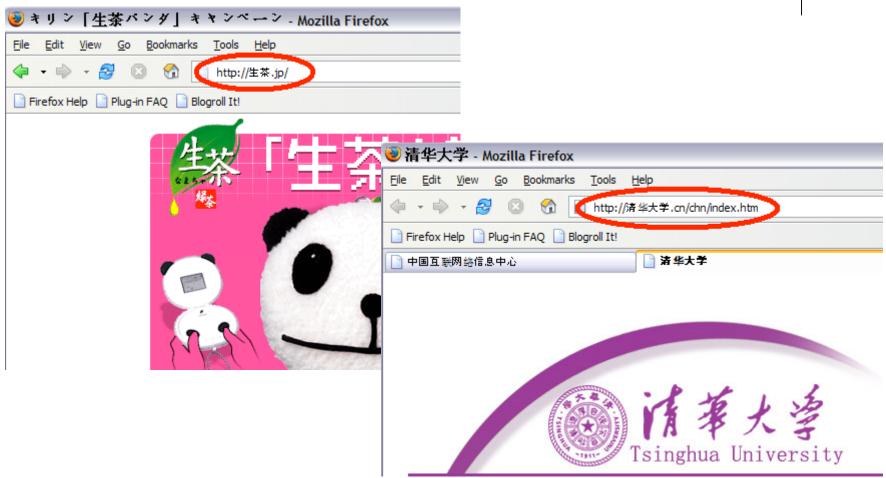
Russian

Tamil

Yiddish







## Significant of IDN



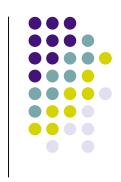
- Large number of population in Asia Pacific are not native English speakers
  - An English-only Internet is no longer viable
- Names are often used in DNS identifiers
  - Do you want to write your name in English?
- Matter of culture diversity and identity





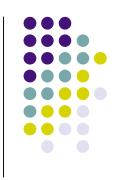
12/96	Martin Dürst's original Internet Draft
03/98	Early research in IDN @ National University of Singapore
07/98	Asia Pacific Networking Group iDNS Working Group
02/99	iDNS Testbed launch across CN/JP/KR/TW/TH/HK/SG
06/99	IDRC funded Center of Internet Research
07/99	UTF-5 proposed by J. Seng. M. Dürst and TW. Tan

## **IDN** standardization



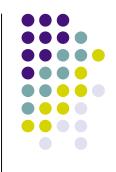
- 11/99 IETF IDN Birds-of-Feather
- 01/00 IETF IDN Working Group formed by J. Seng & M. Blanchet
- 07/00 Formation of MINC and JET and CDNC
- 03/01 ICANN Board IDN WG formed
- 11/01 ICANN IDN Committee formed
- 12/01 ITU-WIPO-MINC Symposium
- 10/02 ICANN IDN Workshop
- 12/02 ITU Plenipotentiary Resolution 133
- 03/03 RFC 3454, 3490, 3491, 3492 published
- 06/03 ICANN IDN Guidelines
- 05/04 RFC 3743 (aka JET CJK Guidelines) published



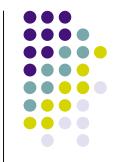


- 06/06 Workshop on IDN @ ICANN Morocco
- 11/06 GNSO IDN Working Group chaired by Ram Mohan
- 12/06 ICANN discussion of IDN trial at the root
- 03/07 GNSO IDN Working Group completes work
- 10/07 ICANN started IDN trial in the root started
- 01/08 ICANN successful Evaluation of IDN in the root
- 04/08 IETF IDNAbis Working Group formed chaired by V. Cerf
- 06/08 ICANN agreed to Fast Track IDN ccTLD
- 10/08 ICANN GTLD Application Guidebook allowing IDN GTLD

### **IDN** in the Future



- ICANN will Fast Track IDN CCTLD in 2009, hopefully we will see .中国 or .日本 by ccTLD operators in 2010
- ICANN will allow IDN GTLD Application in Q1 2010 and hopefully first commercial IDN GTLD will start in 2011



## **THANK YOU**