

# Mozilla's IDN Implementation

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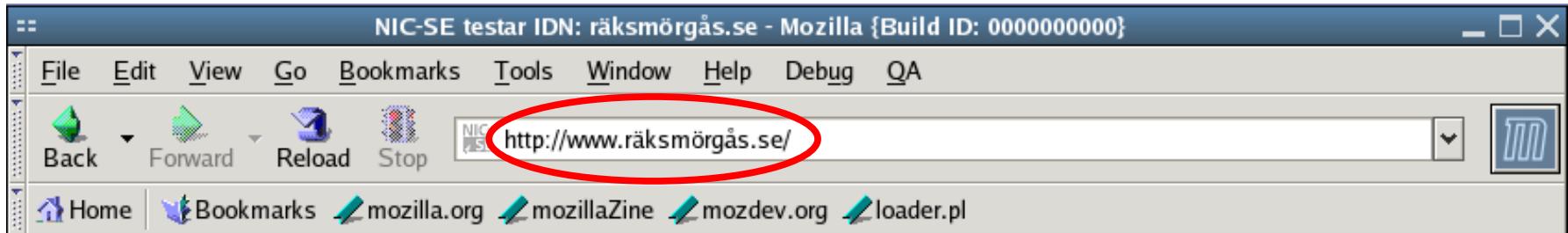
November 29, 2004

# Overview

- Based on code from JPNIC:
  - RFC 3454 “stringprep”
  - RFC 3490 ACE encoding
- Development History
  - First added to Mozilla 1.4 (Netscape 7.1) [2003]
  - Enhancements went into Mozilla 1.7 (Firefox 1.0, Netscape 7.2) [2004]
  - Mozilla trunk includes additional enhancements

# URL Processing

- Mozilla handles IDN during URL parsing:
  - Input to URL parser may be Unicode or ACE (ACE input converted to Unicode as of Moz 1.8)
  - URL objects store Unicode & ACE versions
  - UI code requests the Unicode version of a URL
  - Network code requests the ACE version
  - Unicode input is normalized (Moz 1.7)



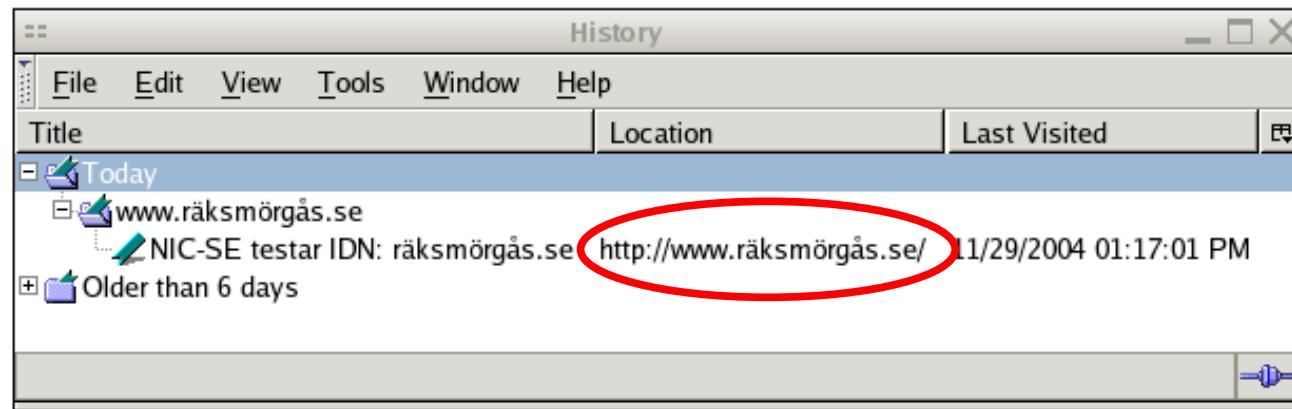
## räksmögås.se

Detta är en test av IDN, *Internationalized Domain Names*. Det finns mer att läsa om IDN på NIC-SE:s [hemsida om IDN](#). Denna domän heter även xn--räksmrgs-5wao1o.se.

Testlänkar:

- [www.räksmögås.se](http://www.räksmögås.se)
- [xn--räksmrgs-5wao1o.se](http://xn--räksmrgs-5wao1o.se)

Treated Equivalently



# Future Plans

- Polish:
  - Eliminate any remaining occurrences of ACE “xn--” strings showing up in the UI
  - Ensure that URLs are always compared in normalized form
- Improve support for IRIs
  - Leveraging abstraction layer introduced for IDN