

ccNSO SG on Emojis at 2nd Level

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ccNSO Session

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Emoji SG Material

- ToR

- <https://ccnso.icann.org/en/workinggroups/emoji-sld.htm>

- Wiki

- <https://community.icann.org/display/ccnsowkspc/ccNSO+Study+Group+on+Use+Emoji+as+Second+Level+Domains>

- Mailing list Archive

- https://mm.icann.org/pipermail/emoji-as-tld_sg

SSAC position

SSAC Advisory on the Use of Emoji in Domain Names

SAC095 SSAC Advisory on the Use of Emoji in Domain Names

emoji and domain names SAC095

<https://www.icann.org/en/system/files/files/sac-095-en.pdf>

Patrik Fältström
Member of SSAC

Emoji in DNS

- IDN is implemented via multiple sets of rules
 - IDNA that is specified by the IETF in RFC 5891-5893
 - Policies set by the registries on what code points to allow further narrows the set of acceptable labels
 - These policies together create a set of identifiers that are acceptably reliable, easy to distinguish, and easy to input
- Details regarding emoji
 - Characters in the Unicode Category "Symbol, Other" (So) were specifically not included, their derived property values are calculated as DISALLOWED in the IDNA standard
 - Because emoji and other emoji-like symbols belong to the Unicode "So" category, they are disallowed by IDNA

Emoji Similarity

- Many emoji are visually similar and can be difficult to distinguish
- Distinguishability is not a design consideration when creating new emoji; ambiguity is acceptable
- Example: over twenty emoji with different code points are associated with "Smiles & People / face positive"
- See <http://unicode.org/emoji/charts/full-emoji-set.html>



Emoji Modifiers - Composition

- Some emoji can be "glued" together using a special zero width joiner (ZWJ) code point
- This allows multiple code points to be displayed as a single symbol
 - In the example below, what happens if I add yet another boy?



Emoji Modifiers - Composition

- Some emoji can be "glued" together using a special zero width joiner (ZWJ) code point
- Not many people are aware of the fact the "rainbow flag" is such a composition



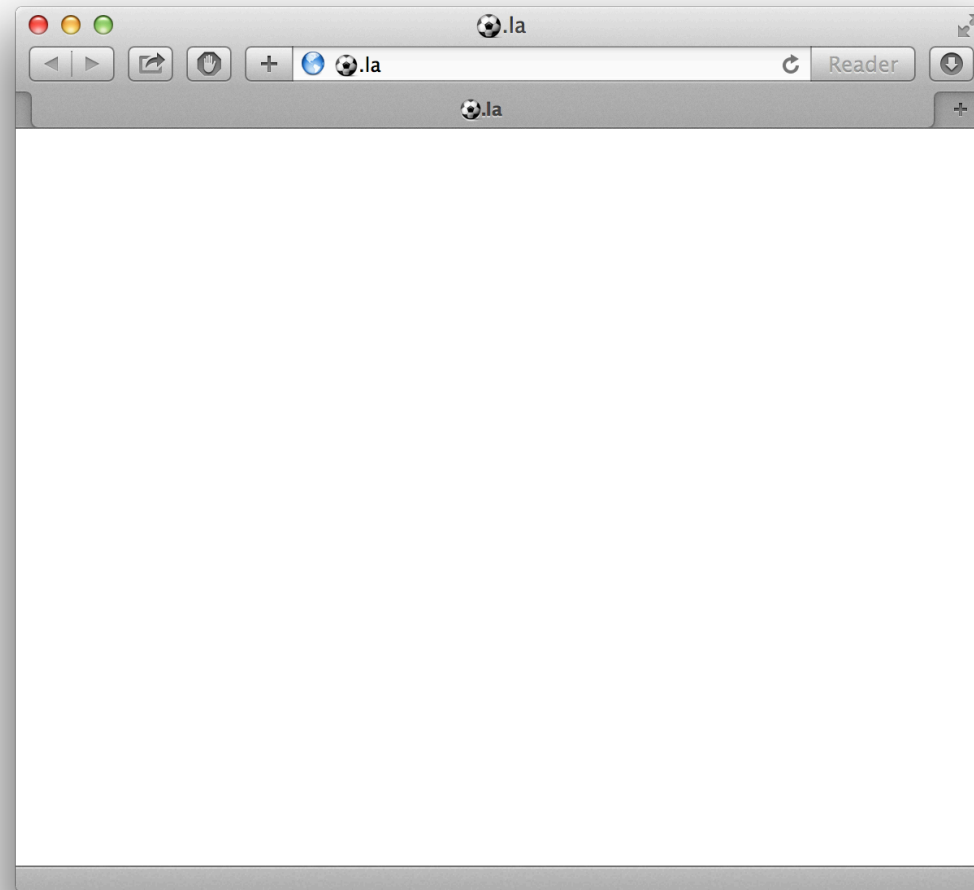
Emoji Modifiers - Modification

- In 2015 Unicode 8.0 introduced the ability to apply different colors to other emoji by appending one of five Fitzpatrick Skin Tone modifier code points to the code point for an anthropomorphic emoji
 - Can I change skin tone of a horse? A car? A house?



An Advisory from the ICANN Security and Stability Advisory Committee (SSAC)
25 May 2017

Sometimes, though ...



SG Terms of Reference

In November 2017 the Board requested that the ccNSO (and the GNSO) engage with the SSAC to more fully understand the risks and consequences of using a domain name that includes emoji in any of its labels, and inform their respective communities about these risks. The Tech WG and ccNSO programme WG have scheduled meetings with members of SSAC respectively at tTEch Day and the ccNSO meeting days in San Juan, during ICANN61.

The Board also requested the ccNSO (and GNSO) to integrate conformance with IDNA2008 and its successor into their relevant policies so as to safeguard security, stability, resiliency and interoperability of domain names.

Purpose

The study group is established by the ccNSO Council to provide to ccTLD community, the ccNSO Council a comprehensive overview of the issues associated with the use of Emoji as second level domains, and the need for and current practice by ccTLD managers to allow Emojis as second level domains. If considered appropriate by the Study group, the Study group may advise on a course of further actions, if any.

SG Work so far

- Understanding mission & ToR
- Understanding SAC 095 & tech background
- Find ccTLDs with „Emoji Domains“ (2nd level)
 - CF FM GA GG GQ JE LA ML MP ST TK
TO TV UZ VG VU WS
 - Presence does not imply current reg'y policy
 - No findings for IDN ccTLDs
 - Findings technically necessarily incomplete

Next steps

- Collecting & understanding registry policies
 - Started with WS at f2f
 - Outreach asap
- Draft report ready for submission to Kobe
- Report/presentation in Kobe, ICANN64