PUBLIC SUFFIX LIST

TechDay

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PUBLIC SUFFIX LIST

More information: https://publicsuffix.org/learn/

View The List: https://publicsuffix.org/list/public_suffix_list.dat

Review the entry for the TLD(s) you administer

Add/Modify your entry: https://github.com/publicsuffix/list/wiki/Guidelines
(example from pre 2005)

data.iana.org/TLD/tlds-alpha-by-domain.txt:

```plaintext
public_suffix_list.dat

ac
com.ac
edu.ac
gov.ac
net.ac
mil.ac
org.ac

// ad : https://en.wikipedia.org/wiki/.ad
ad
nom.ad

// ae : https://en.wikipedia.org/wiki/.ae
// see also: "Domain Name Eligibility Policy" at http://www.aeda.ae/eng/aepolicy.php
ae
co.ae
net.ae
org.ae
sch.ae
ac.ae
gov.ae
mil.ae

...
**Uses of the PSL**
The volunteers, over the past more than decade, have documented some of the known uses of the list. If developers are using it for something else, they are encouraged to tell the project volunteers, as it helps to assess the potential impact of changes. For that, the mailing list psl-discuss exists, where the community considers issues related to the maintenance, format and semantics of the list. (Note: please do not use the mailing list to request additions to the PSL’s data. This on later slide)

**KNOWN APPLICATIONS AND USES OF THE PSL**

<table>
<thead>
<tr>
<th>FIREFOX</th>
<th>CHROMIUM/GOOGLE</th>
<th>INTERNET EXPLORER</th>
<th>OTHER APPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricting cookie setting</td>
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<td>Restricting cookie setting</td>
<td>Qt uses it to restrict cookie setting from version 4.7.2 onwards.</td>
</tr>
<tr>
<td>Restricting the setting of the document.domain property</td>
<td>(pre-processing, DAFSA builder, parser)</td>
<td>Domain highlighting in the URL bar</td>
<td>WhoisMind uses it to get the domain name out of inputted URLs.</td>
</tr>
<tr>
<td>Sorting in the download manager</td>
<td>Restricting cookie setting</td>
<td>Zone determination</td>
<td>Crawler-Commons is a suite of tools for building a web crawler, and it uses the PSL.</td>
</tr>
<tr>
<td>Sorting in the cookie manager</td>
<td>Determining whether entered text is a search or a website URL</td>
<td>ActiveX opt-in list security restriction</td>
<td></td>
</tr>
<tr>
<td>Searching in history</td>
<td>Determining whether wildcard subdomains are allowed in Origin Trial tokens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domain highlighting in the URL bar</td>
<td>Opera</td>
<td></td>
<td></td>
</tr>
<tr>
<td>In the future it may be used for, for example, restricting DOM Storage allowances on a per-domain basis.</td>
<td>Restricting cookie setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restricting the setting of the document.domain property</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SOFTWARE LIBRARIES THAT ARE KNOWN TO INCORPORATE THE PSL

C, Perl and PHP: regdom-libs includes libraries for working with the Public Suffix List.

Go: x/net/publicsuffix
JavaScript: publicsuffixlist.js
Python: publicsuffix

Go: tidextract
JavaScript: tld.js
Python: dnsyp - claims to be more flexible.

Go: publicsuffix-go

TypeScript: tldts

Haskell:
publicsuffix-haskell

Lua: lua-psl
Ruby: publicsuffix-ruby gem

C: Faup, a command line tool with a C library and Python bindings

Java: regdom-libs has a Java port too

.NET: Louw.PublicSuffix.
Rust: publicsuffix

C#: Nager.PublicSuffix

Java: Guava - Google's core Java libraries - has a PSL-using class

Objective-C: KKDomain
Swift: Dashlane
/SwiftDomainParser

Elixir: publicsuffix-elixir

Perl: Domain::PublicSuffix

Erlang: publicsuffix_erlang

PHP: php-domain-parser

Java: Java API for the Public Suffix List

PHP: TLDExtract

This is not exhaustive, and there's also a long list of libraries in various languages in the comments on Stack Overflow, so view this (with hyperlinks) at https://publicsuffix.org/learn/
STANDARDS

DMARC
CAB Forum Baseline Requirements. The Baseline Requirements ban the issuance of wildcard certs where the wildcard is the next label immediately after a registry-controlled label, and suggests using the "ICANN DOMAINS" section of the Public Suffix List for determining what's registry-controlled.

HTML 5 (document.domain)

Other
Let's Encrypt uses it for rate limiting applications to their CA. If you just need an exception from their rate limits, please do not request a change to the list, but instead use their form, linked from their documentation. This is a faster way to achieve what you want.

PSL also has undergone a review by the SSAC, SSAC/70

The Public Suffix List extends the elegance of program interaction with Domain Names, which furthers the objectives of Universal Acceptance
Streamlined Process of Add / Modify, w Validation:

READ / FOLLOW GUIDELINES!

1. Clone publicsuffix/list on GitHub
2. Make your pull request of patch, get id#
3. Add corresponding TXT record for host `._psl` with pull request id# in zone (validation step)
4. Submit Patch
5. Test for Errors
6. If All checks have passed... Merge the Pull Request
7. Watch for email / private follow-ups from the volunteers, if needed. Patience sometimes required.
QUESTIONS?
https://publicsuffix.org

All of the information from these slides is available at this website

ARIGATO!

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