```cpp
1  /*
2  ssc (static site checker)
3  Copyright (c) 2020,2021 Dylan Harris
4  https://dylanharris.org/
5
6  This program is free software: you can redistribute it and/or modify
7  it under the terms of the GNU General Public Licence as published by
8  the Free Software Foundation, either version 3 of the Licence, or
9  (at your option) any later version.
10
11 This program is distributed in the hope that it will be useful,
12 but WITHOUT ANY WARRANTY; without even the implied warranty of
13 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
14 GNU General Public Licence for more details.
15
16 You should have received a copy of the GNU General Public
17 Licence along with this program; if not, write to the Free Software
18 Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
19 */
20
21 #include "main/standard.h"
22 #include "symbol/nstr.h"
23
24 // some from:
25 // https://www.w3.org/TR/ttml-imsc1.0.1/#namespaces
26 // https://www.informit.com/articles/article.aspx?p=31837&seqNum=10
27
28 n_string_entry < e_namespace, 3 > namespace_name_entries [] =
29 {   { { XHTML_1_0 }, { HTML_UNDEF }, ns_bibo, 0, { "bibo", HTTP_CSS PURL_ORG "g/
       ontology/bibo/", "bibliographic ontology" } }, // https://github.com/
       structureddynamics/Bibliographic-Ontology-BIBO/blob/master/bibo.owl
30     { { XHTML_1_0 }, { HTML_UNDEF }, ns_cc, 0, { "cc", HTTP_CSS CC "/ns#",
         "creative commons" } },
31     { { XHTML_1_0 }, { HTML_UNDEF }, ns_crs, 0, { "crs", HTTP_CSS OGC "/crs",
         "common reporting standard" } }, // https://www.oecd.org/tax/exchange-of-
         tax-information/common-reporting-standard-xml-schema-user-guide-for-tax-
         administrations-june-2019.pdf
32     { { XHTML_1_0 }, { HTML_UNDEF }, ns_dbp, 0, { "dbp", HTTP_CSS DBPEDIA "/
         property/", "dbpedia" } },  // https://www.dbpedia.org/
33     { { XHTML_1_0 }, { HTML_UNDEF }, ns_dbp_owl, 0, { "dbp-owl", HTTP_CSS DBPEDIA
          "/ontology/", "dbpedia ontology" } },
34     { { XHTML_1_0 }, { HTML_UNDEF }, ns_dbr, 0, { "dbr", HTTP_CSS DBPEDIA "/
         resource/", "dbpedia resources" } },
35     { { XHTML_1_0 }, { HTML_UNDEF }, ns_dc, 0, { "dc", HTTP_CSS PURL_ORG "/dc/
         elements/1.1/", "dublin core" } },
36     { { XHTML_1_0 }, { HTML_UNDEF }, ns_dcterms, 0, { "dcterms", HTTP_CSS
         PURL_ORG "/dc/terms/", "dublin core terms" } },
37     { { XHTML_1_0 }, { HTML_UNDEF }, ns_dt, 0, { "dt", HTTP_W3 "http://
         www.w3.org/2001/XMLSchema-datatypes", "XML Schema Part 2 : datatypes" } },
38     { { HTML_JUL15 }, { HTML_UNDEF }, ns_ebuttm, 0, { "ebuttm",
         "urn:ebu:tt:metadata", "european broadcasting union TECH 3380
         (subtitles)" } },  // http://xmlns.com/foaf/spec/
```

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39        { { HTML_JUL15 }, { HTML_UNDEF }, ns_ebutts, 0, { "ebutts",
          "urn:ebu:tt:style", "european broadcasting union TECH 3380
          (subtitles)" } },  // http://xmlns.com/foaf/spec/
40        { { HTML_JAN05 }, { HTML_UNDEF }, ns_err, 0, { "err", HTTP_W3 "/2005/xqt-
          errirs", "xqt errors" } },  // http://xmlns.com/foaf/spec/
41        { { XHTML_1_0 }, { HTML_UNDEF }, ns_ex, 0, { "ex", HTTP_CSS DEFAULT_DOMAIN
          "/", "example" } },
42        { { XHTML_1_0 }, { HTML_UNDEF }, ns_exsl, 0, { "exsl", "http://
          xmlns.opentechnology.org/xslt-extensions/common", "Extensions to XSLT
          1.0" } },
43        { { XHTML_1_0 }, { HTML_UNDEF }, ns_exsl, 0, { "exsl", "http://
          xmlns.opentechnology.org/xslt-extensions/functions", "Extensions to XSLT
          1.0 (functions)" } },
44        { { XHTML_1_0 }, { HTML_UNDEF }, ns_exsl, 0, { "exsl", "http://
          xmlns.opentechnology.org/xslt-extensions/math", "Extensions to XSLT 1.0
          (math)" } },
45        { { XHTML_1_0 }, { HTML_UNDEF }, ns_exsl, 0, { "exsl", "http://
          xmlns.opentechnology.org/xslt-extensions/sets", "Extensions to XSLT 1.0
          (sets)" } },
46        { { HTML_JAN05 }, { HTML_UNDEF }, ns_fn, 0, { "fn", HTTP_W3 "/2005/xpath-
          functions", "XPath functions" } },  // http://xmlns.com/foaf/spec/
47        { { XHTML_1_0 }, { HTML_UNDEF }, ns_fo, 0, { "fo", HTTP_W3 "/1999/XSL/
          Format", "XSL Formatting Objects" } },
48        { { XHTML_1_0 }, { HTML_UNDEF }, ns_foaf, 0, { "foaf", HTTP_CSS XCOM "/
          foaf/0.1/", "friend of a friend" } },  // http://xmlns.com/foaf/spec/
49        { { XHTML_1_0 }, { HTML_UNDEF }, ns_html, NS_DEFAULT, { "html", HTTP_W3
          "/1999/html", "hypertext markup language"  } },  // http://xmlns.com/foaf/
          spec/
50        { { XHTML_1_0 }, { HTML_UNDEF }, ns_ims, 0, { "ims", "http://
          www.imsglobal.org/xsd/imsmd_v1p2", "IMS Global Learning
          Consortium"  } },  // http://xmlns.com/foaf/spec/
51        { { XHTML_1_0 }, { HTML_UNDEF }, ns_ims, 0, { "ims", "http://
          www.imsglobal.org/xsd/imsmd_v1p2p2", "IMS Global Learning
          Consortium"  } },  // http://xmlns.com/foaf/spec/
52        { { XHTML_1_0 }, { HTML_UNDEF }, ns_ims, 0, { "ims", "http://
          www.imsglobal.org/xsd/imsmd_v1p2p4", "IMS Global Learning
          Consortium"  } },  // http://xmlns.com/foaf/spec/
53        { { XHTML_1_0 }, { HTML_UNDEF }, ns_ims, 0, { "ims", "http://
          www.imsglobal.org/xsd/imsmd_v1p3", "IMS Global Learning
          Consortium"  } },  // http://xmlns.com/foaf/spec/
54        { { XHTML_1_0 }, { HTML_UNDEF }, ns_ims, 0, { "ims", "http://
          www.imsglobal.org/xsd/imsmd_v1p3p2", "IMS Global Learning
          Consortium"  } },  // http://xmlns.com/foaf/spec/
55        { { XHTML_1_0 }, { HTML_UNDEF }, ns_its, 0, { "its", HTTP_W3 "/2005/11/its",
          "internationalisation tag set" } }, // https://en.wikipedia.org/wiki/
          Internationalization_Tag_Set
56        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "ittm", HTTP_W3 "/ns/ttml/
          profile/imsc1#metadata", "IMCS metadata" } }, // https://en.wikipedia.org/
          wiki/Internationalization_Tag_Set
57        { { HTML_TTML }, { HTML_UNDEF }, ns_ittp, 0, { "ittp", HTTP_W3 "/ns/ttml/
          profile/imsc1#parameter", "IMCS parameter" } }, // https://
          en.wikipedia.org/wiki/Internationalization_Tag_Set
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58        { { HTML_TTML }, { HTML_UNDEF }, ns_itts, 0, { "itts", HTTP_W3 "/ns/ttml/
          profile/imsc1#styling", "IMCS styling" } }, // https://en.wikipedia.org/
          wiki/Internationalization_Tag_Set
59        { { HTML_TTML }, { HTML_UNDEF }, ns_ittx, 0, { "ittx", HTTP_W3 "/ns/ttml/
          profile/imsc1/extension/", "IMCS extension" } }, // https://
          en.wikipedia.org/wiki/Internationalization_Tag_Set
60        { { HTML_TTML }, { HTML_UNDEF }, ns_ittxi, 0, { "ittxi", HTTP_W3 "/ns/ttml/
          profile/imsc1/image", "IMCS image extension" } }, // https://
          en.wikipedia.org/wiki/Internationalization_Tag_Set
61        { { HTML_TTML }, { HTML_UNDEF }, ns_ittxt, 0, { "ittxt", HTTP_W3 "/ns/ttml/
          profile/imsc1/text", "IMCS text extension" } }, // https://
          en.wikipedia.org/wiki/Internationalization_Tag_Set
62        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "ittm", HTTP_W3 "/ns/ttml",
          "timed text markup language" } }, // https://en.wikipedia.org/wiki/
          Internationalization_Tag_Set
63        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "ittp", HTTP_W3 "/ns/
          ttml#parameter", "timed text markup language" } }, // https://
          en.wikipedia.org/wiki/Internationalization_Tag_Set
64        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "itts", HTTP_W3 "/ns/
          ttml#styling", "timed text markup language" } }, // https://
          en.wikipedia.org/wiki/Internationalization_Tag_Set
65        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "ittx", HTTP_W3 "/ns/ttml/
          feature/", "timed text markup language" } }, // https://en.wikipedia.org/
          wiki/Internationalization_Tag_Set
66        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "ittxi", HTTP_W3 "/ns/ttml",
          "timed text markup language" } }, // https://en.wikipedia.org/wiki/
          Internationalization_Tag_Set
67        { { HTML_TTML }, { HTML_UNDEF }, ns_ittm, 0, { "ittxt", HTTP_W3 "/ns/ttml",
          "timed text markup language" } }, // https://en.wikipedia.org/wiki/
          Internationalization_Tag_Set
68        { { HTML_MATH1 }, { HTML_UNDEF }, ns_math, 0, { "math", HTTP_W3 "/1998/Math/
          MathML", "mathML" } },
69        { { HTML_MATH1 }, { HTML_UNDEF }, ns_math, 0, { "m", HTTP_W3 "/1998/Math/
          MathML", "mathML" } },
70        { { HTML_MATH1 }, { HTML_UNDEF }, ns_math, 0, { "mml", HTTP_W3 "/1998/Math/
          MathML", "mathML" } },
71        { { HTML_OWL10 }, { HTML_UNDEF }, ns_odd, 0, { "odd", "http://odrl.net/1.0/
          ODRL-EX", "Open Digital Rights Language" } },
72        { { HTML_OWL10 }, { HTML_UNDEF }, ns_oex, 0, { "oex", "http://odrl.net/1.0/
          ODRL-DD", "Open Digital Rights Language" } },
73        { { HTML_OWL10 }, { HTML_UNDEF }, ns_owl, 0, { "owl", HTTP_W3 "/2002/07/
          owl#", "Web Ontology Language 1.0" } }, // http://xmlns.com/foaf/spec/ too
74        { { HTML_OWL11 }, { HTML_UNDEF }, ns_owl, 0, { "owl11", HTTP_W3 "/2006/12/
          owl11#", "Web Ontology Language 1.1" } }, // http://xmlns.com/foaf/spec/
          too
75        { { HTML_OWL11 }, { HTML_UNDEF }, ns_owlxml, 0, { "owl11xml", HTTP_W3
          "/2006/12/owl11-xml#", "Web Ontology Language 1.1 XML" } }, // http://
          xmlns.com/foaf/spec/ too
76        { { XHTML_1_1 }, { HTML_UNDEF }, ns_rddl, 0, { "rddl", "http://
          www.rddl.org/", "Resource Directory Description Language" } },
77        { { XHTML_1_0 }, { HTML_UNDEF }, ns_rdf, 0, { "rdf", HTTP_W3 "/1999/02/22-
          rdf-syntax-ns#", "resource description framework" } },
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 78        { { XHTML_1_0 }, { HTML_UNDEF }, ns_rdfa, 0, { "rdfa", HTTP_W3 "/ns/rdfa#",
           "Resource Description Framework in Attributes" } },
 79        { { XHTML_1_0 }, { HTML_UNDEF }, ns_rdfs, 0, { "rdfs", HTTP_W3 "/2000/01/rdf-
           schema#", "Resource Description Framework Schema" } },
 80        { { XHTML_1_0 }, { HTML_UNDEF }, ns_saxon, 0, { "saxon", "http://icl.com/
           saxon", "Saxon XSLT Extensions" } }, // http://saxon.sourceforge.net/
           saxon6.5/extensions.html
 81        { { XHTML_1_0 }, { HTML_UNDEF }, ns_smil, 0, { "smil", HTTP_W3 "/2001/
           SMIL20", "Synchronized Multimedia Integration Language" } },
 82        { { HTML_JAN13 }, { HTML_UNDEF }, ns_smpte, 0, { "smpte", "http://www.smpte-
           ra.org/schemas/2052-1/2013/smpte-tt", "Society of Motion Pictures and
           Television Engineers" } },
 83        { { HTML_SVG10 }, { HTML_UNDEF }, ns_svg, 0, { "svg", HTTP_CSS SVG_2000,
           "scalable vector graphics" } },
 84        { { HTML_TTML }, { HTML_UNDEF }, ns_tt, 0, { "tt", HTTP_W3 "/ns/ttml", "timed
            text markup language" } }, // https://en.wikipedia.org/wiki/
           Internationalization_Tag_Set
 85        { { HTML_TTML }, { HTML_UNDEF }, ns_ttf, 0, { "ttf", HTTP_W3 "/ns/
           ttml#parameter", "timed text markup language" } }, // https://
           en.wikipedia.org/wiki/Internationalization_Tag_Set
 86        { { HTML_TTML }, { HTML_UNDEF }, ns_ttp, 0, { "ttp", HTTP_W3 "/ns/
           ttml#styling", "timed text markup language" } }, // https://
           en.wikipedia.org/wiki/Internationalization_Tag_Set
 87        { { HTML_TTML }, { HTML_UNDEF }, ns_tts, 0, { "tts", HTTP_W3 "/ns/ttml/
           feature/", "timed text markup language" } }, // https://en.wikipedia.org/
           wiki/Internationalization_Tag_Set
 88        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xalan, 0, { "xalan", "http://
           xml.apache.org/xslt", "Xalan XSLT Extensions" } },
 89        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xalan, 0, { "lxslt", "http://
           xml.apache.org/xslt", "Xalan XSLT Extensions" } },
 90        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xf, 0, { "xf", "http://
           www.w3.org/2001/08/xquery-operators", "XQuery 1.0" } },
 91        { { HTML_XLINK10 }, { HTML_UNDEF }, ns_xlink, 0, { "xlink", HTTP_W3 "/1999/
           xlink", "XLink 1.0" } },
 92        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xhtml, NS_PREDECLARED, { XHTMLNS, HTTP_W3
           "/1999/xhtml", "XHTML 1.0" } },
 93        { { XHTML_1_0, HV_DEPRECATEDX10 }, { HTML_UNDEF }, ns_xhtml, NS_DEPRECATED,
           { XHTMLNS, HTTP_W3 "/TR/xhtml1/strict", "XHTML 1.0" } },
 94        { { XHTML_1_0, HV_DEPRECATEDX10 }, { HTML_UNDEF }, ns_xhtml, NS_DEPRECATED,
           { XHTMLNS, HTTP_W3 "/TR/xhtml1/transitional", "XHTML 1.0" } },
 95        { { XHTML_1_0, HV_DEPRECATEDX10 }, { HTML_UNDEF }, ns_xhtml, NS_DEPRECATED,
           { XHTMLNS, HTTP_W3 "/TR/xhtml1/frameset", "XHTML 1.0" } },
 96        { { XHTML_1_1 }, { HTML_UNDEF }, ns_xhtml, NS_PREDECLARED, { XHTMLNS, HTTP_W3
           "/2000/xhtml", "XHTML 1.1" } },
 97        { { XHTML_2_0 }, { HTML_UNDEF }, ns_xhtml, NS_PREDECLARED, { XHTMLNS, HTTP_W3
           "/2004/xhtml", "XHTML 2.0" } },
 98        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xhv, 0, { "xhv", HTTP_W3 "/1999/xhtml/
           vocab#", "XHTML Vocabulary" } },
 99        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xi, 0, { "xi", HTTP_W3 "/2001/XInclude",
           "XML Merge" } },
100        { { XHTML_1_0 }, { HTML_UNDEF }, ns_xmlevents, 0, { "ev", HTTP_W3 "/2001/xml-
           events", "XML events" } },
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101      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xmlns, NS_UNDECLARABLE | NS_PREDECLARED,
         { XMLNS, HTTP_W3 "/2000/xmlns/", "XML namespace declaration" } },
102      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xs, 0, { "xs", HTTP_W3 "/2001/
         XMLSchema#", "XML Schema Definition Language" } },
103      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xs, 0, { "xsd", HTTP_W3 "/2001/
         XMLSchema", "XML Schema Definition Language" } },
104      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xsi, 0, { "xsi", HTTP_W3 "/2001/
         XMLSchema-instance", "XML Schema Instance" } },
105      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xslt, 0, { "xsl", HTTP_W3 "/1999/XSL/
         Transform", "XML Stylesheet Language Transformations" } },
106      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xslt, 0, { "transform", HTTP_W3 "/1999/
         XSL/Transform", "XML Stylesheet Language Transformations" } },
107      { { XHTML_1_0 }, { HTML_UNDEF }, ns_xtm, 0, { "xtm", "http://
         www.topicmaps.org/xtm/1.0/", "XML Topic Maps" } },
108      { { XHTML_1_0 }, { HTML_UNDEF }, ns_error, 0, { nullptr, nullptr,
         nullptr } } };
109
110  n_string_entry < e_rdfa_context, 3 > prefix_name_entries [] =
111  {    { { HTML_RDF10 }, { HTML_UNDEF }, pre_as, 0, { "as", HTTP_W3 "/ns/
     activitystreams#", "Activity Vocabulary" } },
112      { { HTML_RDF10 }, { HTML_UNDEF }, pre_cc, 0, { "cc", "http://
         creativecommons.org/ns#", "cc" } },
113      { { HTML_RDF10 }, { HTML_UNDEF }, pre_csvw, 0, { "csvw", HTTP_W3 "/ns/csvw#",
         "csvw" } },
114      { { HTML_RDF10 }, { HTML_UNDEF }, pre_ctag, 0, { "ctag", "http://
         commontag.org/ns#", "ctag" } },
115      { { HTML_RDF10 }, { HTML_UNDEF }, pre_dc, 0, { "dc", HTTP PURL_ORG "/dc/
         terms/", "dc" } },
116      { { HTML_RDF10 }, { HTML_UNDEF }, pre_dc11, 0, { "dc11", HTTP PURL_ORG "/dc/
         elements/1.1/", "dc11" } },
117      { { HTML_RDF10 }, { HTML_UNDEF }, pre_dcat, 0, { "dcat", HTTP_W3 "/ns/dcat#",
         "dcat" } },
118      { { HTML_RDF10 }, { HTML_UNDEF }, pre_dcterms, 0, { "dcterms", HTTP PURL_ORG
         "/dc/terms/", "dcterms" } },
119      { { HTML_RDF10 }, { HTML_UNDEF }, pre_dqv, 0, { "dqv", HTTP_W3 "/ns/dqv#",
         "dqv" } },
120      { { HTML_RDF10 }, { HTML_UNDEF }, pre_describedby, 0, { "describedby",
         HTTP_W3 "/2007/05/powder-s#describedby", "describedby" } },
121      { { HTML_RDF10 }, { HTML_UNDEF }, pre_duv, 0, { "duv", HTTP_W3 "/ns/duv#",
         "duv" } },
122      { { HTML_RDF10 }, { HTML_UNDEF }, pre_earl, 0, { "earl", HTTP_W3 "/ns/earl#",
         "earl" } },
123      { { HTML_RDF10 }, { HTML_UNDEF }, pre_foaf, 0, { "foaf", "http://xmlns.com/
         foaf/0.1/", "foaf" } },
124      { { HTML_RDF10 }, { HTML_UNDEF }, pre_gr, 0, { "gr", "gr", HTTP PURL_ORG "/
         goodrelations/v1#" } },
125      { { HTML_RDF10 }, { HTML_UNDEF }, pre_grddl, 0, { "grddl", HTTP_W3 "/2003/g/
         data-view#", "grddl" } },
126      { { HTML_RDF10 }, { HTML_UNDEF }, pre_ical, 0, { "ical", HTTP_W3 "/2002/12/
         cal/icaltzd#", "ical" } },
127      { { HTML_RDF10 }, { HTML_UNDEF }, pre_jsonld, 0, { "jsonld", HTTP_W3 "/ns/
         json-ld#", "jsonld" } },
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128        { { HTML_RDF10 }, { HTML_UNDEF }, pre_ldp, 0, { "ldp", HTTP_W3 "/ns/ldp#",
             "ldp" } },
129        { { HTML_RDF10 }, { HTML_UNDEF }, pre_licence, 0, { "license", HTTP_W3
             "/1999/xhtml/vocab#license", "licence" } },
130        { { HTML_RDF10 }, { HTML_UNDEF }, pre_ma, 0, { "ma", HTTP_W3 "/ns/ma-ont#",
             "ma" } },
131        { { HTML_RDF10 }, { HTML_UNDEF }, pre_oa, 0, { "oa", HTTP_W3 "/ns/oa#",
             "oa" } },
132        { { HTML_RDF10 }, { HTML_UNDEF }, pre_odrl, 0, { "odrl", HTTP_W3 "/ns/
             odrl2/", "odrl" } },
133        { { HTML_RDF10 }, { HTML_UNDEF }, pre_og, 0, { "og", "http://ogp.me/ns#",
             "og" } },
134        { { HTML_RDF10 }, { HTML_UNDEF }, pre_org, 0, { "org", "org",
             "Organisations" } },
135        { { HTML_RDF10 }, { HTML_UNDEF }, pre_owl, 0, { "owl", HTTP_W3 "/2002/07/ow",
             "OWL" } },
136        { { HTML_RDF10 }, { HTML_UNDEF }, pre_prov, 0, { "prov", HTTP_W3 "/ns/prov#",
             "Provenance Vocabulary" } },
137        { { HTML_RDF10 }, { HTML_UNDEF }, pre_qb, 0, { "qb", HTTP PURL_ORG "/linked-
             data/cube#", "Data Cubes" } },
138        { { HTML_RDF10 }, { HTML_UNDEF }, pre_rdf, 0, { "rdf", HTTP_W3 "/1999/02/22-
             rdf-syntax-ns#", "RDF" } },
139        { { HTML_RDF10 }, { HTML_UNDEF }, pre_rdfa, 0, { "rdfa", HTTP_W3 "/ns/rdfa#",
             "RDFa vocabulary" } },
140        { { HTML_RDF10 }, { HTML_UNDEF }, pre_rdfs, 0, { "rdfs", HTTP_W3 "/2000/01/
             rdf-schema#", "RDF Schema" } },
141        { { HTML_RDF10 }, { HTML_UNDEF }, pre_rev, 0, { "rev", HTTP PURL_ORG "/stuff/
             rev#", "rev" } },
142        { { HTML_RDF10 }, { HTML_UNDEF }, pre_rif, 0, { "rif", HTTP_W3 "/2007/rif#",
             "rif" } },
143        { { HTML_RDF10 }, { HTML_UNDEF }, pre_role, 0, { "role", HTTP_W3 "/1999/
             xhtml/vocab#role", "role" } },
144        { { HTML_RDF10 }, { HTML_UNDEF }, pre_rr, 0, { "rr", HTTP_W3 "/ns/r2rml#",
             "rr" } },
145        { { HTML_RDF10 }, { HTML_UNDEF }, pre_schema, 0, { "schema", HTTP_CSS
             SCHEMA_ORG "/", "schema.org vocabulary" } },
146        { { HTML_RDF10 }, { HTML_UNDEF }, pre_sd, 0, { "sd", HTTP_W3 "/ns/parql-
             service-description#", "sd" } },
147        { { HTML_RDF10 }, { HTML_UNDEF }, pre_sioc, 0, { "sioc", "http://rdfs.org/
             sioc/ns#", "sioc" } },
148        { { HTML_RDF10 }, { HTML_UNDEF }, pre_skos, 0, { "skos", HTTP_W3 "/2004/02/
             skos/core#", "skos" } },
149        { { HTML_RDF10 }, { HTML_UNDEF }, pre_skosxl, 0, { "skosxl", HTTP_W3
             "/2008/05/skos-xl#", "skosxl" } },
150        { { HTML_RDF10 }, { HTML_UNDEF }, pre_ssn, 0, { "ssn", HTTP_W3 "/ns/ssn/",
             "ssn" } },
151        { { HTML_RDF10 }, { HTML_UNDEF }, pre_sosa, 0, { "sosa", HTTP_W3 "/ns/sosa/",
             "sosa" } },
152        { { HTML_RDF10 }, { HTML_UNDEF }, pre_time, 0, { "time", HTTP_W3 "/2006/
             time#", "time" } },
153        { { HTML_RDF10 }, { HTML_UNDEF }, pre_v, 0, { "v", "http://rdf.data-
             vocabulary.org/#", "v" } },
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154      { { HTML_RDF10 }, { HTML_UNDEF }, pre_vcard, 0, { "vcard", HTTP_W3 "/2006/
            vcard/ns#", "vcard" } },
155      { { HTML_RDF10 }, { HTML_UNDEF }, pre_void, 0, { "void", HTTP_CSS RDFS_ORG "/
            ns/void#", "void" } },
156      { { HTML_RDF10 }, { HTML_UNDEF }, pre_wdr, 0, { "wdr", HTTP_W3 "/2007/05/
            powder#", "Protocol for Web Description Resources" } },
157      { { HTML_RDF10 }, { HTML_UNDEF }, pre_wdrs, 0, { "wdrs", HTTP_W3 "/2007/05/
            powder-s#", "Protocol for Web Description Resources" } },
158      { { HTML_RDF10 }, { HTML_UNDEF }, pre_xhv, 0, { "xhv", HTTP_W3 "/1999/xhtml/
            vocab#", "RDFa Core 1.1" } },
159      { { HTML_RDF10 }, { HTML_UNDEF }, pre_xml, 0, { "xml", HTTP_W3 "/XML/1998/
            namespace", "Namespaces in XML 1.0" } },
160      { { HTML_RDF10 }, { HTML_UNDEF }, pre_xsd, 0, { "xsd", HTTP_W3 "/2001/
            XMLSchema#", "XML Schema Part 2" } },
161      { { HTML_RDF10 }, { HTML_UNDEF }, pre_error, 0, { nullptr, nullptr,
            nullptr } } };
162
163  n_string_entry < e_protocol, 2 > protocol_name_entries [] =
164  {    { { HTML_TAGS }, { HTML_UNDEF }, pr_aaa, 0, { "aaa", "diameter" } },
165      { { HTML_TAGS }, { HTML_UNDEF }, pr_aaas, 0, { "aaas", "secure diameter" } },
166      { { HTML_TAGS }, { HTML_UNDEF }, pr_about, 0, { "about", "about" } },
167      { { HTML_TAGS }, { HTML_UNDEF }, pr_acap, 0, { "acap", "application
            configuration access" } },
168      { { HTML_TAGS }, { HTML_UNDEF }, pr_acct, 0, { "acct", "identifying user
            account" } },
169      { { HTML_TAGS }, { HTML_UNDEF }, pr_acr, 0, { "acr", "anonymous customer
            reference" } },
170      { { HTML_TAGS }, { HTML_UNDEF }, pr_adiumxtra, 0, { "adiumxtra", "adium xtra
            plugin" } },
171      { { HTML_TAGS }, { HTML_UNDEF }, pr_admin, 0, { "admin", "gnome virtual
            filesystem" } },
172      { { HTML_TAGS }, { HTML_UNDEF }, pr_afp, 0, { "afp", "apple file" } },
173      { { HTML_TAGS }, { HTML_UNDEF }, pr_afs, 0, { "afs", "andrew filesystem" } },
174      { { HTML_TAGS }, { HTML_UNDEF }, pr_aim, 0, { "aim", "aol instance
            messenger" } },
175      { { HTML_TAGS }, { HTML_UNDEF }, pr_apt, 0, { "apt", "advanced passenger
            train (not)" } },
176      { { HTML_TAGS }, { HTML_UNDEF }, pr_app, 0, { "app", "google container" } },
177      { { HTML_TAGS }, { HTML_UNDEF }, pr_attachment, 0, { "attachment", "MHTML
            attachment" } },
178      { { HTML_TAGS }, { HTML_UNDEF }, pr_aw, 0, { "aw", "active words" } },
179      { { HTML_TAGS }, { HTML_UNDEF }, pr_amss, 0, { "amss", "AMSS broadcast
            identifier" } },
180      { { HTML_TAGS }, { HTML_UNDEF }, pr_barian, 0, { "barian", "barion e-money
            wallet" } },
181      { { HTML_TAGS }, { HTML_UNDEF }, pr_beshare, 0, { "beshare", "beshare search
            query" } },
182      { { HTML_TAGS }, { HTML_UNDEF }, pr_bitcoin, 0, { "bitcoin", "climate change
            acceleration" } },
183      { { HTML_TAGS }, { HTML_UNDEF }, pr_blob, 0, { "blob", "binary data
            access" } },
184      { { HTML_TAGS }, { HTML_UNDEF }, pr_bolo, 0, { "bolo", "bolo game" } },
```

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185        { { HTML_TAGS }, { HTML_UNDEF }, pr_callto, 0, { "callto", "skype call" } },
186        { { HTML_TAGS }, { HTML_UNDEF }, pr_cap, 0, { "cap", "calendr access" } },
187        { { HTML_TAGS }, { HTML_UNDEF }, pr_chrome, 0, { "chrome", "browser" } },
188        { { HTML_TAGS }, { HTML_UNDEF }, pr_chrome_extension, 0, { "chrome-
           extension", "browser settings" } },
189        { { HTML_TAGS }, { HTML_UNDEF }, pr_cid, 0, { "cid", "MIME component" } },
190        { { HTML_TAGS }, { HTML_UNDEF }, pr_clsid, 0, { "clsid", "class id" } },
191        { { HTML_TAGS }, { HTML_UNDEF }, pr_coap, 0, { "coap", "constrained
           application" } },
192        { { HTML_TAGS }, { HTML_UNDEF }, pr_coaps, 0, { "coaps", "secure constrained
           application" } },
193        { { HTML_TAGS }, { HTML_UNDEF }, pr_com_eventbrite_attendee, 0, { "com-
           eventbrite_attendee", "eventbrite attendee" } },
194        { { HTML_TAGS }, { HTML_UNDEF }, pr_content, 0, { "content", "android content
            provider" } },
195        { { HTML_TAGS }, { HTML_UNDEF }, pr_crid, 0, { "crid", "content reference
           identifier" } },
196        { { HTML_TAGS }, { HTML_UNDEF }, pr_cvs, 0, { "cvs", "concurrent version
           system" } },
197        { { HTML_TAGS }, { HTML_UNDEF }, pr_dab, 0, { "dab", "DAB broadcast" } },
198        { { HTML_TAGS }, { HTML_UNDEF }, pr_data, 0, { "data", "data" } },
199        { { HTML_TAGS }, { HTML_UNDEF }, pr_dav, 0, { "dav", "HTTP distributed
           authoring extension" } },
200        { { HTML_TAGS }, { HTML_UNDEF }, pr_dict, 0, { "dict", "dictionary
           service" } },
201        { { HTML_TAGS }, { HTML_UNDEF }, pr_dina_playsingle, 0, { "dina-playsingle",
           "dina" } },
202        { { HTML_TAGS }, { HTML_UNDEF }, pr_dina_playcontainer, 0, { "dina-
           playcontainer", "dina" } },
203        { { HTML_TAGS }, { HTML_UNDEF }, pr_dns, 0, { "dns", "domain name
           service" } },
204        { { HTML_TAGS }, { HTML_UNDEF }, pr_dntp, 0, { "dntp", "direct network
           transfer" } },
205        { { HTML_TAGS }, { HTML_UNDEF }, pr_doi, 0, { "doi", "digial object
           identifier" } },
206        { { HTML_TAGS }, { HTML_UNDEF }, pr_drm, 0, { "drm", "DRM broadcast
           identifier" } },
207        { { HTML_TAGS }, { HTML_UNDEF }, pr_dtn, 0, { "dtn", "disruption tolerant
           networking" } },
208        { { HTML_TAGS }, { HTML_UNDEF }, pr_dvb, 0, { "dvb", "digital video
           broadcasting" } },
209        { { HTML_TAGS }, { HTML_UNDEF }, pr_ed2k, 0, { "ed2k", "eDonkey 2000
           resources" } },
210        { { HTML_TAGS }, { HTML_UNDEF }, pr_example, 0, { "example", "example" } },
211        { { HTML_TAGS }, { HTML_UNDEF }, pr_facetime, 0, { "facetime", "apple
           videoconference" } },
212        { { HTML_TAGS }, { HTML_UNDEF }, pr_fax, 0, { "fax", "telefacsimile" } },
213        { { HTML_TAGS }, { HTML_UNDEF }, pr_feed, 0, { "feed", "web feed
           subscription" } },
214        { { HTML_TAGS }, { HTML_UNDEF }, pr_file, 0, { "file", "local file" } },
215        { { HTML_TAGS }, { HTML_UNDEF }, pr_filesystem, 0, { "filesystem",
           "filesystem" } },
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216        { { HTML_TAGS }, { HTML_UNDEF }, pr_finger, 0, { "finger", "finger user      ⮑
               information" } },
217        { { HTML_TAGS }, { HTML_UNDEF }, pr_fish, 0, { "fish", "ssh file" } },
218        { { HTML_TAGS }, { HTML_UNDEF }, pr_fm, 0, { "fm", "FM identifier" } },
219        { { HTML_TAGS }, { HTML_UNDEF }, pr_ftp, 0, { "ftp", "file transfer" } },
220        { { HTML_TAGS }, { HTML_UNDEF }, pr_ftps, 0, { "ftps", "secure file         ⮑
               transfer" } },
221        { { HTML_TAGS }, { HTML_UNDEF }, pr_gemini, 0, { "gemini", "distributed      ⮑
               hypertext information" } },
222        { { HTML_TAGS }, { HTML_UNDEF }, pr_geo, 0, { "geo", "geolocation uri" } },
223        { { HTML_TAGS }, { HTML_UNDEF }, pr_gg, 0, { "gg", "gadu-gadu char" } },
224        { { HTML_TAGS }, { HTML_UNDEF }, pr_git, 0, { "git", "git repository" } },
225        { { HTML_TAGS }, { HTML_UNDEF }, pr_gizmoproject, 0, { "gizmoproject",       ⮑
               "gizmo5 calling link" } },
226        { { HTML_TAGS }, { HTML_UNDEF }, pr_go, 0, { "go", "common name             ⮑
               resolution" } },
227        { { HTML_TAGS }, { HTML_UNDEF }, pr_gopher, 0, { "gopher", "a distributed    ⮑
               document" } },
228        { { HTML_TAGS }, { HTML_UNDEF }, pr_gtalk, 0, { "gtalk", "google chat" } },
229        { { HTML_TAGS }, { HTML_UNDEF }, pr_h323, 0, { "h323", "h323 multimedia" } },
230        { { HTML_TAGS }, { HTML_UNDEF }, pr_hcp, 0, { "hcp", "windows help" } },
231        { { HTML_TAGS }, { HTML_UNDEF }, pr_http, 0, { "http", "hypertext           ⮑
               transfer" } },
232        { { HTML_TAGS }, { HTML_UNDEF }, pr_https, 0, { "https", "secure hypertext   ⮑
               transfer" } },
233        { { HTML_TAGS }, { HTML_UNDEF }, pr_iax, 0, { "iax", "inter-asterisk        ⮑
               exchange" } },
234        { { HTML_TAGS }, { HTML_UNDEF }, pr_icap, 0, { "icap", "internet common      ⮑
               adaption" } },
235        { { HTML_TAGS }, { HTML_UNDEF }, pr_icon, 0, { "icon", "intensive care online ⮑
                network" } },
236        { { HTML_TAGS }, { HTML_UNDEF }, pr_im, 0, { "im", "instant messaging" } },
237        { { HTML_TAGS }, { HTML_UNDEF }, pr_imap, 0, { "imap", "email resource" } },
238        { { HTML_TAGS }, { HTML_UNDEF }, pr_info, 0, { "info", "information          ⮑
               assets" } },
239        { { HTML_TAGS }, { HTML_UNDEF }, pr_iotdisco, 0, { "iotdisco", "internet of  ⮑
               things identification" } },
240        { { HTML_TAGS }, { HTML_UNDEF }, pr_ipn, 0, { "ipn", "ipn messaging" } },
241        { { HTML_TAGS }, { HTML_UNDEF }, pr_ipp, 0, { "ipp", "internet printing" } },
242        { { HTML_TAGS }, { HTML_UNDEF }, pr_ipps, 0, { "ipps", "secure internet      ⮑
               printing" } },
243        { { HTML_TAGS }, { HTML_UNDEF }, pr_irc, 0, { "irc", "internet relay        ⮑
               chat" } },
244        { { HTML_TAGS }, { HTML_UNDEF }, pr_irc6, 0, { "irc6", "ipv6 internet relay  ⮑
               chat" } },
245        { { HTML_TAGS }, { HTML_UNDEF }, pr_ircs, 0, { "ircs", "secure internet relay ⮑
                chat" } },
246        { { HTML_TAGS }, { HTML_UNDEF }, pr_iris, 0, { "iris", "internet registry    ⮑
               information service" } },
247        { { HTML_TAGS }, { HTML_UNDEF }, pr_iris_beep, 0, { "iris-beep", "internet    ⮑
               registry information service" } },
248        { { HTML_TAGS }, { HTML_UNDEF }, pr_iris_xpc, 0, { "iris-xpc", "internet      ⮑
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         registry information service" } },
249      { { HTML_TAGS }, { HTML_UNDEF }, pr_iris_xpcs, 0, { "iris-xpcs", "internet    ⮡
         registry information service" } },
250      { { HTML_TAGS }, { HTML_UNDEF }, pr_iris_lws, 0, { "iris-lws", "internet      ⮡
         registry information service" } },
251      { { HTML_TAGS }, { HTML_UNDEF }, pr_itms, 0, { "itms", "itunes music          ⮡
         store" } },
252      { { HTML_TAGS }, { HTML_UNDEF }, pr_jabber, 0, { "jabber", "talk talk" } },
253      { { HTML_TAGS }, { HTML_UNDEF }, pr_jar, 0, { "jar", "java archive" } },
254      { { HTML_TAGS }, { HTML_UNDEF }, pr_javascript, 0, { "javascript",           ⮡
         "javascript" } },
255      { { HTML_TAGS }, { HTML_UNDEF }, pr_jdbc, 0, { "jdbc", "java database         ⮡
         connectivity" } },
256      { { HTML_TAGS }, { HTML_UNDEF }, pr_jms, 0, { "jms", "java message            ⮡
         service" } },
257      { { HTML_TAGS }, { HTML_UNDEF }, pr_keyparc, 0, { "keyparc", "keyparc         ⮡
         resource" } },
258      { { HTML_TAGS }, { HTML_UNDEF }, pr_lastfm, 0, { "lastfm", "lastfm radio      ⮡
         stream" } },
259      { { HTML_TAGS }, { HTML_UNDEF }, pr_ldap, 0, { "ldap", "ldap directory        ⮡
         request" } },
260      { { HTML_TAGS }, { HTML_UNDEF }, pr_ldaps, 0, { "ldaps", "secure ldap         ⮡
         directory request" } },
261      { { HTML_TAGS }, { HTML_UNDEF }, pr_magnet, 0, { "magnet", "magnet            ⮡
         links" } },
262      { { HTML_TAGS }, { HTML_UNDEF }, pr_mailserver, 0, { "mailserver", "mail      ⮡
         server" } },
263      { { HTML_TAGS }, { HTML_UNDEF }, pr_mailto, 0, { "mailto", "SMTP email" } },
264      { { HTML_TAGS }, { HTML_UNDEF }, pr_maps, 0, { "maps", "maps links" } },
265      { { HTML_TAGS }, { HTML_UNDEF }, pr_market, 0, { "market", "google play" } },
266      { { HTML_TAGS }, { HTML_UNDEF }, pr_message, 0, { "message", "email          ⮡
         message" } },
267      { { HTML_TAGS }, { HTML_UNDEF }, pr_mid, 0, { "mid", "mime content" } },
268      { { HTML_TAGS }, { HTML_UNDEF }, pr_mms, 0, { "mms", "windows streaming       ⮡
         media" } },
269      { { HTML_TAGS }, { HTML_UNDEF }, pr_modem, 0, { "modem", "modem" } },
270      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_help, 0, { "ms-help", "windows         ⮡
         help" } },
271      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings, 0, { "ms-settings", "windows ⮡
          settings" } },
272      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_airplanemode, 0, { "ms-       ⮡
         settings_airplanemode", "windows settings" } },
273      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_bluetooth, 0, { "ms-          ⮡
         settings_bluetooth", "windows settings" } },
274      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_camera, 0, { "ms-             ⮡
         settings_camera", "windows settings" } },
275      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_cellular, 0, { "ms-           ⮡
         settings_cellular", "windows settings" } },
276      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_cloudstorage, 0, { "ms-       ⮡
         settings_cloudstorage", "windows settings" } },
277      { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_emailandaccounts, 0, { "ms-   ⮡
         settings_emailandaccounts", "windows settings" } },
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278        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_language, 0, { "ms-settings-
           language", "windows settings" } },
279        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_location, 0, { "ms-
           settings_location", "windows settings" } },
280        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_lock, 0, { "ms-
           settings_lock", "windows settings" } },
281        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_nfctransactions, 0, { "ms-
           settings_nfctransactions", "windows settings" } },
282        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_notifications, 0, { "ms-
           settings_notifications", "windows settings" } },
283        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_power, 0, { "ms-
           settings_power", "windows settings" } },
284        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_privacy, 0, { "ms-
           settings_privacy", "windows settings" } },
285        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_proximity, 0, { "ms-
           settings_proximity", "windows settings" } },
286        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_screenrotation, 0, { "ms-
           settings_screenrotation", "windows settings" } },
287        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_wifi, 0, { "ms-
           settings_wifi", "windows settings" } },
288        { { HTML_TAGS }, { HTML_UNDEF }, pr_ms_settings_workplace, 0, { "ms-
           settings_workplace", "windows settings" } },
289        { { HTML_TAGS }, { HTML_UNDEF }, pr_msnum, 0, { "msnum", "windows live
           messanger" } },
290        { { HTML_TAGS }, { HTML_UNDEF }, pr_msrp, 0, { "msrp", "message session
           relay" } },
291        { { HTML_TAGS }, { HTML_UNDEF }, pr_msrps, 0, { "msrps", "secure message
           session relay" } },
292        { { HTML_TAGS }, { HTML_UNDEF }, pr_mtqp, 0, { "mtqp", "message tracking
           query" } },
293        { { HTML_TAGS }, { HTML_UNDEF }, pr_mumble, 0, { "mumble", "mumber
           server" } },
294        { { HTML_TAGS }, { HTML_UNDEF }, pr_mupdate, 0, { "mupdate", "mailbox
           update" } },
295        { { HTML_TAGS }, { HTML_UNDEF }, pr_mvn, 0, { "mvn", "apache maven
           repository" } },
296        { { HTML_TAGS }, { HTML_UNDEF }, pr_news, 0, { "news", "usenet news" } },
297        { { HTML_TAGS }, { HTML_UNDEF }, pr_nfs, 0, { "nfs", "network file
           system" } },
298        { { HTML_TAGS }, { HTML_UNDEF }, pr_ni, 0, { "ni", "naming things hash" } },
299        { { HTML_TAGS }, { HTML_UNDEF }, pr_nih, 0, { "nih", "naming things
           hash" } },
300        { { HTML_TAGS }, { HTML_UNDEF }, pr_nntp, 0, { "nntp", "network news
           transfer" } },
301        { { HTML_TAGS }, { HTML_UNDEF }, pr_notes, 0, { "notes", "lotus notes" } },
302        { { HTML_TAGS }, { HTML_UNDEF }, pr_ocsp, 0, { "ocsp", "online certificate
           status" } },
303        { { HTML_TAGS }, { HTML_UNDEF }, pr_odbc, 0, { "odbc", "open database
           connectivity" } },
304        { { HTML_TAGS }, { HTML_UNDEF }, pr_oid, 0, { "oid", "object identifier" } },
305        { { HTML_TAGS }, { HTML_UNDEF }, pr_opaquelocktoken, 0, { "opaquelocktoken",
           "opaque lock token" } },
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306        { { HTML_TAGS }, { HTML_UNDEF }, pr_openpgp4fpr, 0, { "openpgp4fpr", "open
           pgp 4 public key" } },
307        { { HTML_TAGS }, { HTML_UNDEF }, pr_pack, 0, { "pack", "packaging" } },
308        { { HTML_TAGS }, { HTML_UNDEF }, pr_palm, 0, { "palm", "hp palm service" } },
309        { { HTML_TAGS }, { HTML_UNDEF }, pr_paparazzi, 0, { "paparazzi", "paparazzi
           screenshot" } },
310        { { HTML_TAGS }, { HTML_UNDEF }, pr_payto, 0, { "payto", "payment
           target" } },
311        { { HTML_TAGS }, { HTML_UNDEF }, pr_pkcs11, 0, { "pkcs11", "public key
           11" } },
312        { { HTML_TAGS }, { HTML_UNDEF }, pr_platform, 0, { "platform", "eclipse
           platform" } },
313        { { HTML_TAGS }, { HTML_UNDEF }, pr_pop, 0, { "pop", "post office" } },
314        { { HTML_TAGS }, { HTML_UNDEF }, pr_pres, 0, { "pres", "common profile for
           presence" } },
315        { { HTML_TAGS }, { HTML_UNDEF }, pr_prospero, 0, { "prospero", "prospero
           directory service" } },
316        { { HTML_TAGS }, { HTML_UNDEF }, pr_proxy, 0, { "proxy", "proxy
           settings" } },
317        { { HTML_TAGS }, { HTML_UNDEF }, pr_psyc, 0, { "psyc", "synchronous
           conferencing" } },
318        { { HTML_TAGS }, { HTML_UNDEF }, pr_query, 0, { "query", "filestream
           query" } },
319        { { HTML_TAGS }, { HTML_UNDEF }, pr_redis, 0, { "redis", "redis
           database" } },
320        { { HTML_TAGS }, { HTML_UNDEF }, pr_rediss, 0, { "rediss", "secure redis
           database" } },
321        { { HTML_TAGS }, { HTML_UNDEF }, pr_reload, 0, { "reload", "resource location
            discovery" } },
322        { { HTML_TAGS }, { HTML_UNDEF }, pr_res, 0, { "res", "error page" } },
323        { { HTML_TAGS }, { HTML_UNDEF }, pr_resource, 0, { "resource", "resource
           mapping" } },
324        { { HTML_TAGS }, { HTML_UNDEF }, pr_rmi, 0, { "rmi", "rmi java object" } },
325        { { HTML_TAGS }, { HTML_UNDEF }, pr_rsync, 0, { "rsync", "remote
           synchronisation" } },
326        { { HTML_TAGS }, { HTML_UNDEF }, pr_rtmfp, 0, { "rtmfp", "real time media
           flow" } },
327        { { HTML_TAGS }, { HTML_UNDEF }, pr_rtmp, 0, { "rtmp", "realm time
           messaging" } },
328        { { HTML_TAGS }, { HTML_UNDEF }, pr_rtsp, 0, { "rtsp", "real time
           streaming" } },
329        { { HTML_TAGS }, { HTML_UNDEF }, pr_s3, 0, { "s3", "amazon s3 bucket" } },
330        { { HTML_TAGS }, { HTML_UNDEF }, pr_secondlife, 0, { "secondlife", "second
           life teleportation" } },
331        { { HTML_TAGS }, { HTML_UNDEF }, pr_service, 0, { "service", "service" } },
332        { { HTML_TAGS }, { HTML_UNDEF }, pr_session, 0, { "session", "media resource
           control" } },
333        { { HTML_TAGS }, { HTML_UNDEF }, pr_sftp, 0, { "sftp", "secure file
           transfer" } },
334        { { HTML_TAGS }, { HTML_UNDEF }, pr_sgn, 0, { "sgn", "social graph node
           mapper" } },
335        { { HTML_TAGS }, { HTML_UNDEF }, pr_shttp, 0, { "shttp", "secure hypertext
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          transfer" } },
336       { { HTML_TAGS }, { HTML_UNDEF }, pr_sieve, 0, { "sieve", "manage sieve" } },
337       { { HTML_TAGS }, { HTML_UNDEF }, pr_sip, 0, { "sip", "session        ⮐
          initiation" } },
338       { { HTML_TAGS }, { HTML_UNDEF }, pr_sips, 0, { "sips", "secure session  ⮐
          initiation" } },
339       { { HTML_TAGS }, { HTML_UNDEF }, pr_skype, 0, { "skype", "skype video   ⮐
          conferencing" } },
340       { { HTML_TAGS }, { HTML_UNDEF }, pr_slack, 0, { "slack", "slack client" } },
341       { { HTML_TAGS }, { HTML_UNDEF }, pr_smb, 0, { "smb", "smb/cifs share" } },
342       { { HTML_TAGS }, { HTML_UNDEF }, pr_sms, 0, { "sms", "simple messaging   ⮐
          service" } },
343       { { HTML_TAGS }, { HTML_UNDEF }, pr_snews, 0, { "snews", "secure network  ⮐
          news" } },
344       { { HTML_TAGS }, { HTML_UNDEF }, pr_snmp, 0, { "snmp", "simple network    ⮐
          management" } },
345       { { HTML_TAGS }, { HTML_UNDEF }, pr_soap_beep, 0, { "soap-beep", "simple   ⮐
          object access" } },
346       { { HTML_TAGS }, { HTML_UNDEF }, pr_soap_beeps, 0, { "soap-beeps", "simple  ⮐
          object access" } },
347       { { HTML_TAGS }, { HTML_UNDEF }, pr_soldat, 0, { "soldat", "soldat        ⮐
          gaming" } },
348       { { HTML_TAGS }, { HTML_UNDEF }, pr_spotify, 0, { "spotify", "spotify     ⮐
          search" } },
349       { { HTML_TAGS }, { HTML_UNDEF }, pr_ssh, 0, { "ssh", "secure shell" } },
350       { { HTML_TAGS }, { HTML_UNDEF }, pr_steam, 0, { "steam", "steam gaming" } },
351       { { HTML_TAGS }, { HTML_UNDEF }, pr_stratum, 0, { "stratum", "climate change ⮐
          acceleration" } },
352       { { HTML_TAGS }, { HTML_UNDEF }, pr_stun, 0, { "stun", "session transversal ⮐
          utilities" } },
353       { { HTML_TAGS }, { HTML_UNDEF }, pr_stuns, 0, { "stuns", "secure session   ⮐
          transversal utilities" } },
354       { { HTML_TAGS }, { HTML_UNDEF }, pr_snv, 0, { "snv", "subversion source   ⮐
          control" } },
355       { { HTML_TAGS }, { HTML_UNDEF }, pr_tag, 0, { "tag", "hashtag registry" } },
356       { { HTML_TAGS }, { HTML_UNDEF }, pr_teamspeak, 0, { "teamspeak", "team    ⮐
          speak" } },
357       { { HTML_TAGS }, { HTML_UNDEF }, pr_tel, 0, { "tel", "telephone number" } },
358       { { HTML_TAGS }, { HTML_UNDEF }, pr_telnet, 0, { "telnet", "virtual       ⮐
          terminal" } },
359       { { HTML_TAGS }, { HTML_UNDEF }, pr_tftp, 0, { "tftp", "trivial file      ⮐
          transfer" } },
360       { { HTML_TAGS }, { HTML_UNDEF }, pr_things, 0, { "things", "internet of    ⮐
          things" } },
361       { { HTML_TAGS }, { HTML_UNDEF }, pr_thismessage, 0, { "thismessage",      ⮐
          "thismessage" } },
362       { { HTML_TAGS }, { HTML_UNDEF }, pr_tn3270, 0, { "tn3270", "3270          ⮐
          emulation" } },
363       { { HTML_TAGS }, { HTML_UNDEF }, pr_tip, 0, { "tip", "transaction        ⮐
          internet" } },
364       { { HTML_TAGS }, { HTML_UNDEF }, pr_trueconf, 0, { "trueconf", "trueconf   ⮐
          video conferencing" } },
```

```cpp
365      { { HTML_TAGS }, { HTML_UNDEF }, pr_turn, 0, { "turn", "transversal using        ⮑
         realys around NAT" } },
366      { { HTML_TAGS }, { HTML_UNDEF }, pr_turns, 0, { "turns", "secure transversal     ⮑
         using realys around NAT" } },
367      { { HTML_TAGS }, { HTML_UNDEF }, pr_tv, 0, { "tv", "tv broadcast" } },
368      { { HTML_TAGS }, { HTML_UNDEF }, pr_udp, 0, { "udp", "user datagram" } },
369      { { HTML_TAGS }, { HTML_UNDEF }, pr_unreal, 0, { "unreal", "unreal             ⮑
         (game)" } },
370      { { HTML_TAGS }, { HTML_UNDEF }, pr_urn, 0, { "urn", "uniform resource         ⮑
         name" } },
371      { { HTML_TAGS }, { HTML_UNDEF }, pr_ut2004, 0, { "ut2004", "unreal tournament ⮑
          2004" } },
372      { { HTML_TAGS }, { HTML_UNDEF }, pr_vemmi, 0, { "vemmi", "versatile           ⮑
         multimedia interface" } },
373      { { HTML_TAGS }, { HTML_UNDEF }, pr_ventrilo, 0, { "ventrilo", "ventrilo      ⮑
         voice over IP" } },
374      { { HTML_TAGS }, { HTML_UNDEF }, pr_videotex, 0, { "videotex", "videotex      ⮑
         terminal" } },
375      { { HTML_TAGS }, { HTML_UNDEF }, pr_view_source, 0, { "view-source", "view    ⮑
         source" } },
376      { { HTML_TAGS }, { HTML_UNDEF }, pr_vnc, 0, { "vnc", "virtual network         ⮑
         computing" } },
377      { { HTML_TAGS }, { HTML_UNDEF }, pr_wais, 0, { "wais", "wide area information ⮑
          service" } },
378      { { HTML_TAGS }, { HTML_UNDEF }, pr_webcal, 0, { "webcal", "calendar          ⮑
         subscription" } },
379      { { HTML_TAGS }, { HTML_UNDEF }, pr_webplus, 0, { "webplus", "living standard ⮑
          namespace" } },
380      { { HTML_TAGS }, { HTML_UNDEF }, pr_ws, 0, { "ws", "web sockets" } },
381      { { HTML_TAGS }, { HTML_UNDEF }, pr_wss, 0, { "wss", "secure web             ⮑
         sockets" } },
382      { { HTML_TAGS }, { HTML_UNDEF }, pr_wtai, 0, { "wtai", "wireless telephony    ⮑
         application" } },
383      { { HTML_TAGS }, { HTML_UNDEF }, pr_wyciwyg, 0, { "wyciwyg", "what you cache   ⮑
         is what you get" } },
384      { { HTML_TAGS }, { HTML_UNDEF }, pr_xcon, 0, { "xcon", "centralised           ⮑
         conferencing" } },
385      { { HTML_TAGS }, { HTML_UNDEF }, pr_xcon_userid, 0, { "xcon-userid",           ⮑
         "xcon" } },
386      { { HTML_TAGS }, { HTML_UNDEF }, pr_xfire, 0, { "xfire", "xfire instant        ⮑
         messaging" } },
387      { { HTML_TAGS }, { HTML_UNDEF }, pr_xmlrpc_beep, 0, { "xmlrpc-beep", "xml      ⮑
         rpc" } },
388      { { HTML_TAGS }, { HTML_UNDEF }, pr_xmlrpc_beeps, 0, { "xmlrpc-beeps", "xml    ⮑
         rpc" } },
389      { { HTML_TAGS }, { HTML_UNDEF }, pr_xmpp, 0, { "xmpp", "extensib;e message    ⮑
         presence" } },
390      { { HTML_TAGS }, { HTML_UNDEF }, pr_xri, 0, { "xri", "extensible resource     ⮑
         identifier" } },
391      { { HTML_TAGS }, { HTML_UNDEF }, pr_ymsgr, 0, { "ymsgr", "yahoo contact" } },
392      { { HTML_TAGS }, { HTML_UNDEF }, pr_z39_50, 0, { "z39-50", "z39.50            ⮑
         information access" } },
```

```cpp
393        { { HTML_TAGS }, { HTML_UNDEF }, pr_z39_50r, 0, { "z39-50r", "z39.50
           retrieval" } },
394        { { HTML_TAGS }, { HTML_UNDEF }, pr_z39_50s, 0, { "z39-50s", "z39.50
           session" } },
395        { { HTML_TAGS }, { HTML_UNDEF }, pr_zoommtg, 0, { "zoommtg", "zoom
           conferencing software" } },
396        { { HTML_TAGS }, { HTML_UNDEF }, pr_zoomus, 0, { "zoomus", "zoom conferencing
            software" } },
397        { { HTML_TAGS }, { HTML_UNDEF }, pr_error, 0, { nullptr, nullptr } } };
398
399 namespace_names_t namespace_names;
400 protocol_names_t protocol_names;
401 prefix_names_t prefix_names;
402
403 void init_nstrs (nitpick& nits)
404 {    namespace_names.init (nits, &namespace_name_entries [0]);
405      protocol_names.init (nits, &protocol_name_entries [0]);
406      prefix_names.init (nits, &prefix_name_entries [0]); }
407
```