Trust & Identity Incubator - Shibboleth OIDC Extension

REFEDS @TechEx2019

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Niels van Dijk

Trust & Identity Incubator lead
niels.vandijk@surfnet.nl

Shibboleth

OpenID Connect

- A 'simple' identity layer on top of the OAuth 2.0 protocol
- Technically different to SAML2, some overlapping use cases
- And a few that are hard to do with SAML

What if we implement native OIDC support for the Shibboleth IdPv3 software?

- Allow 'dual stack' on top of the same source of identities
- To be manage in the same way we can manage our SAML based connections
- A precursor to OIDC Federation
  -> https://openid.net/specs/openid-connect-federation-1_0.html

Learning a new language..

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Articles, Behavioral/Cognitive

Intrinsic Functional Connectivity in the Adult Brain and Success in Second-Language Learning

Xiaoqian J. Chai, Jonathan A. Berken, Elise B. Barbeau, Jennika Soles, Megan Callahan, Jen-Kai Chen, and Denise Klein

Article   Figures & Data   Info & Metrics   eLetters   📄 PDF

Abstract

There is considerable variability in an individual's ability to acquire a second language (L2) during adulthood. Using resting-state fMRI data acquired before training in English speakers who underwent a 12 week intensive French immersion training course, we investigated whether individual differences in intrinsic resting-state functional connectivity relate to a person's ability to acquire an L2. We focused on two key aspects of language processing—lexical retrieval in spontaneous speech and reading speed—and computed whole-brain functional connectivity from two regions of interest in the language network, namely the left anterior insula/frontal operculum (AI/FO) and the visual word form area (VWFA). Connectivity between the left AI/FO and left

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Learning a new language.. - not that hard?

Try, try again? Study says no: Trying harder makes it more difficult to learn some aspects of language, neuroscientists find

Summary: Neuroscientists find that trying harder makes it more difficult to learn some aspects of language. When it comes to learning languages, adults and children have different strengths. Adults excel at absorbing the vocabulary needed to navigate a grocery store or order food in a restaurant, but children have an uncanny ability to pick up on subtle nuances of language, sometimes speaking a second language like a native speaker within months. Brain structure plays an important role in this "sensitive period" for learning language, which is believed to end around adolescence.

Professor of psycholinguistics Nuria Sagarra agrees that learners of vastly differing languages have a greater challenge ahead: "If your native language is more similar to the foreign language (e.g. your native language has rich morphology and you are learning a different rich morphology, such as a Russian learning Spanish), things will be easier."
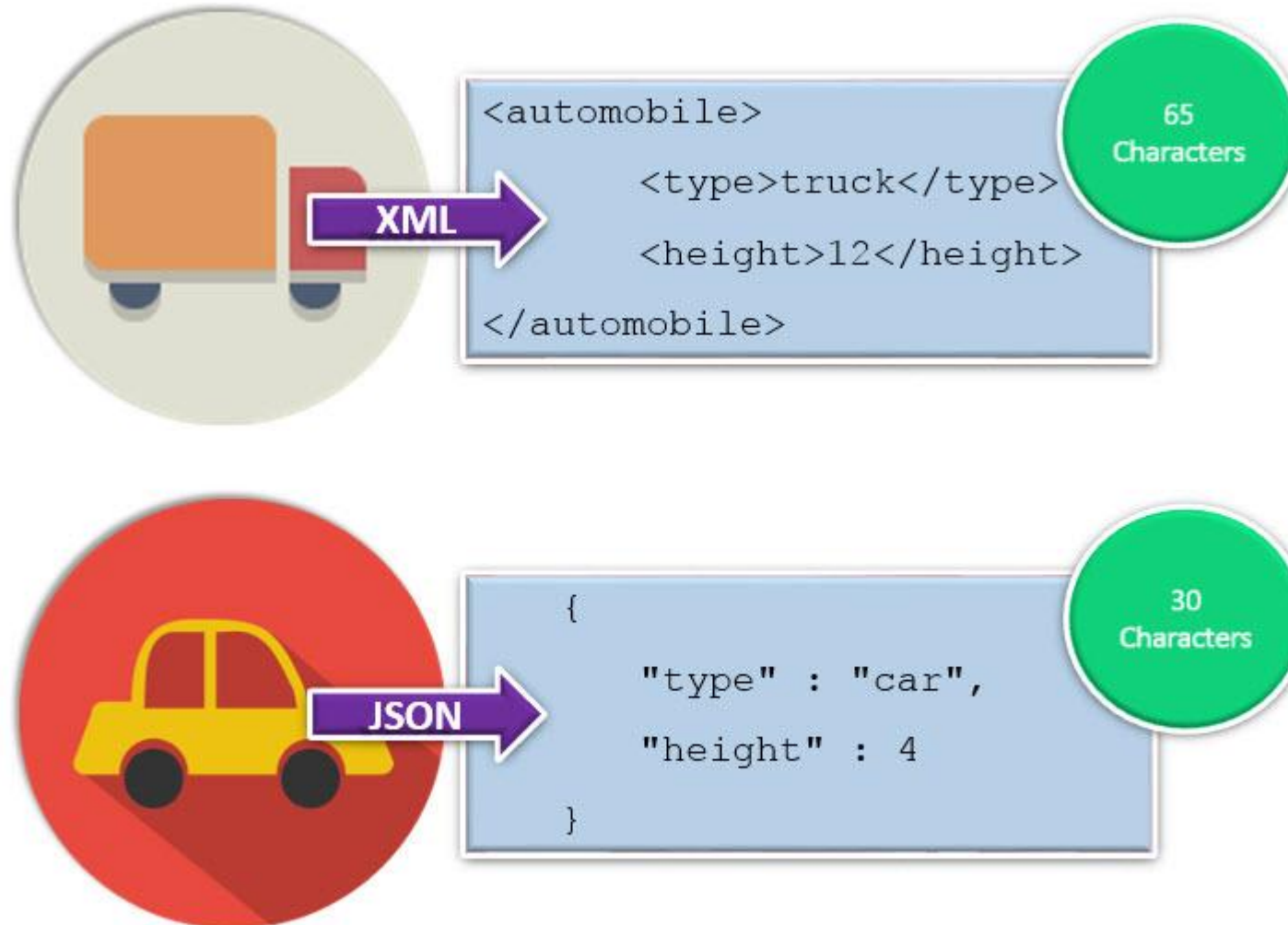
Learning a vastly different language..

XML

```xml
<empinfo>
  <employees>
    <employee>
      <name>James Kirk</name>
      <age>40></age>
    </employee>
    <employee>
      <name>Jean-Luc Picard</name>
      <age>45</age>
    </employee>
    <employee>
      <name>Wesley Crusher</name>
      <age>27</age>
    </employee>
  </employees>
</empinfo>
```

JSON

```json
{  "empinfo" :
    {
        "employees" :  [
        {
            "name" : "James Kirk",
            "age" : 40,
        },
        {
            "name" : "Jean-Luc Picard",
            "age" : 45,
        },
        {
            "name" : "Wesley Crusher",
            "age" : 27,
        }
                        ]
    }
}
```

XML vs JSON


```
<automobile>
        <type>truck</type>
        <height>12</height>
</automobile>
```
65 Characters

```
{
        "type" : "car",
        "height" : 4
}
```
30 Characters

Timeline

2016 - Working group formed from Shibboleth development team and the GÉANT NG Trust & Identity Development Team

2016 to 2018 - Multiple alpha and beta releases

April 2019 - **Version 1.0**

Oct 2019 - **Formal certification** by the OpenID Foundation

Nov 2019 - Re-licensed to Apache 2.0

Dec 2019 - Formal handover to Shibboleth Consortium @TechEx2019 (Spoilers!)

2020 - Broader adoption expected with IdPv4

2021 - Full integration of the code into the core Shibboleth software IdPv5

TEAM FINLAND

Most of the work was done by Team Finland

- Henri Mikkonen
- Janne Lauros

Both working for CSC

With **great support** from the

Shibboleth Consortium Development team

Shibboleth IdP - Now with even more AuthN Power!