What's HOT @ OGC & W3C

Linda van den Brink, Geonovum 2 oktober 2019, Amersfoort @brinkwoman #DataToBuildOn





Het laatste nieuws

Uw reporter... Linda van den Brink



About V Standards V Innovation V News & Events V Membership V Resources V

Welcome to The Open Geospatial Consortium

The Open Geospatial Consortium (OGC) is an international consortium of more than 530 businesses, government agencies, research organizations, and universities driven to make geospatial (location) information and services FAIR - Findable, Accessible, Interoperable, and

OGC's member-driven consensus process creates royalty free, publicly available, open geospatial standards. Existing at the cutting edge, OGC actively analyzes and anticipates emerging tech trends, and runs an agile, collaborative Research and Development (R&D) lab - the OGC Innovation Program - that builds and tests innovative prototype solutions to members' use cases.

OGC members together form a global forum of experts and communities that use location to connect people with technology and improve decision-making at all levels. OGC is committed to creating a sustainable future for us, our children, and future generations.

Consider becoming a member today and join our dynamic and diverse global standards

Standards Currently Seeking Public Comment

. OGC DGGS Standards Working Group seeks public comment on new tasks of work added to its

Closing Date: Thursday, 2019-09-26

Initiatives Currently Seeking Sponsors

- Testbed-16
- Disasters Resilience 2019 Pilot

Initiatives Currently Seeking Participants

- · Vector Tiles Pilot, Phase 2
- · CityGML Challenge win a £5,000 prize
- SELFIE: Second Environmental Linked Features Interoperability Experiment

Initiatives Currently Seeking Information

There are no initiatives currently seeking information

Upcoming Events

- . BIM Middle East 2019 Conference and Expo
- 23 Sep 25 Sep
- · 11th International Symposium on Digital Earth (Florence, Italy)
- 24 Sep 27 Sep The 14th 3D GeoInfo Confere 25 Sep - 27 Sep
- 8th FIG Land Administration Model Workshop 01 Oct - 03 Oct
- CityGML Challenge 24 Oct - 24 Oct

View all events...

Recent Tweets

Tweets by @opengeospatial

OGC Open Geospatial: OGC

OGC is looking to fund participants in Tiles Pilot, Phase 2, which will advance interoperability for vector tiles using O standards and the latest OGC APIs geospatial enterprises create custom seamless online/offline use go.myogc.org/2AuzXJZ



WEB AND INDUSTRY

Automotive

Entertainment (TV and

Broadcasting)

Publishing

Web Payments

Web of Data

Web and Telecommunications

Web of Things

WEB FOR ALL

Accessibility

Internationalization

Web Security

Leading the web to its full potential

STANDARDS PARTICIPATE MEMBERSHIP ABOUT W3C

 First Public Working Draft: MiniApp Standardization White Paper 12 September 2019 | Archive

First Public Working Draft: WebDriver Level 2

New Resource: Making Audio and Video Media Accessible

11 September 2019 | Archive

12 September 2019 | Archive

First Public Working Drafts: Pronunciation

5 September 2019 | Archive

 Call for Review: Verifiable Credentials Data Model 1.0 is a W3C Proposed Recommendation

5 September 2019 | Archive

Updated Candidate Recommendation for CSS Writing Modes Level 3

3 September 2019 | Archive

 Upcoming: W3C Workshop on Inclusive Design for Immersive Web Standards

ABOUT W3C

The World Wide Web Consortium (W3C) is an international community that develops open standards to ensure the long-term growth of the

W3C By Region

DONATIONS

Become a Friend of W3C: support the W3C mission and free developer tools.

W3C BLOG

W3C Interview: Coil on Interledger Protoco and Web Monetization

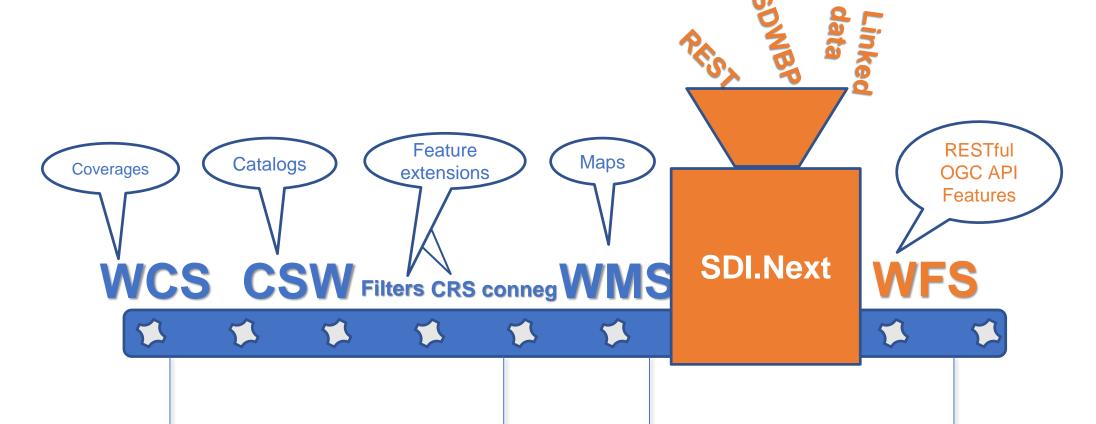
3 September 2019 by Ian Jacobs

W3C TPAC 2019 Platinum Sponsors announced

2 September 2019 by Coralie Mercier



Spatial Data on the Web Triggers New Generation of OGC Standards





OGC and STAC invite developers to Sprint to advance OGC APIs for Features and Catalogues

Contact:

info@opengeospatial.org

Release Date:

Tuesday, 1 October 2019 UTC

Developers at the '2019 OGC API - Features and Catalogues Sprint' will work on Query and Filter reusable components to standardize geospatial data access across 'OGC API - Features', 'OGC API - Catalogue', and other geospatial API's.



The Open Geospatial Consortium (OGC) and the <u>SpatioTemporal Asset Catalog (STAC)</u> community together invite developers to participate in the follow-up to the successful <u>OGC API Hackathon</u>. The '2019 OGC API - Features and Catalogues Sprint' will occur at IQT CosmiQ Works, Arlington, VA, USA on 5-7 November, 2019.

OGC has been developing a new generation of web API standards leveraging OpenAPI to document requirements for implementation. In parallel, but in close coordination, the STAC community has been advancing a specification focused on imagery catalogs, which is based on OGC API - Features.



Dataset Description Standard Nears Completion

- Metadata Dataset description
- DCAT 2.0 bijna gereed
- Met meer geo
- Toekomstvisie: ISO19115/119 vervangen door Geo extensie van DCAT2.0

SDI.Ne **t

TABLE OF CONTENTS Introduction Motivation for change 3. Namespaces Conformance Vocabulary overview 5.1 DCAT scope 5.2 RDF considerations 5.3 Basic example Classifying datasets thematically Classifying dataset types 5.5 5.6 Describing catalog records metadata 5.7 Dataset available only behind some Web 5.8 A dataset available as a download and behind some Web page 5.9 A dataset available through a service Vocabulary specification 6. RDF representation Elements from other vocabularies 6.2.1 Complementary vocabularies Element definitions Class: Catalog

Data Catalog Vocabulary (DCAT) - Version 2



W3C Working Draft 28 May 2019

This version:

https://www.w3.org/TR/2019/WD-vocab-dcat-2-20190528/

Latest published version:

https://www.w3.org/TR/vocab-dcat-2/

Latest editor's draft:

https://w3c.github.io/dxwg/dcat/

Previous version:

https://www.w3.org/TR/2018/WD-vocab-dcat-2-20181016/

Latest Recommendation:

https://www.w3.org/TR/vocab-dcat/

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SERVICE

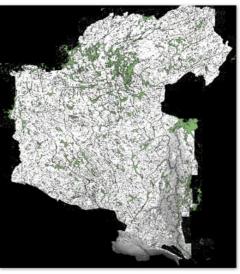


TB15 D104: Lake-river differentiation model

One of the deliverables of ML thread of Testbed-15, sponsored by NRCan

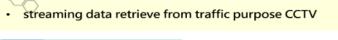
CONNECTED DEVICES

- Objective: Train model to recommend waterbody splits into lake and river features
 - If no split, determine if lake or river
 - Detect lakes!
 - If split, determine division between the features
 - Hydro lakes = rivers!
- Data
 - Hydrography network
 - High Resolution DEM
 - Imagery, if possible/necessary
- - north of Gatineau/Ottawa
 - near from Petawawa experimental forest





Build up disaster training dataset



Annotation

- · Event time stamp and annotation
- CCTV image retrieval

DI Dr. Ing. Florent Pou

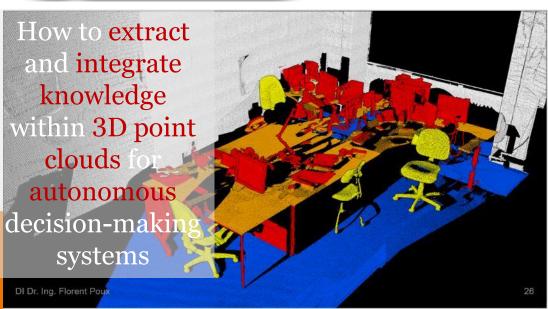
- ✓ Regularly get CCTV image –
- Event based CCTV image detection -> Automatic trigger after an earthquake

Training and Recognition

- CCTV streaming recognition based on annotation knowledge base
- Email, SMS, instant massager notification



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		经再扩水利用	8+5	米利用	2015/4/2 15:58:00	CCTV 製液器沢 焼中菌		





Event type – Urban flash flood

- via traffic CCTV
- Road mark detection –puddles detection
- Flood depth recognition detect the driveway splashing



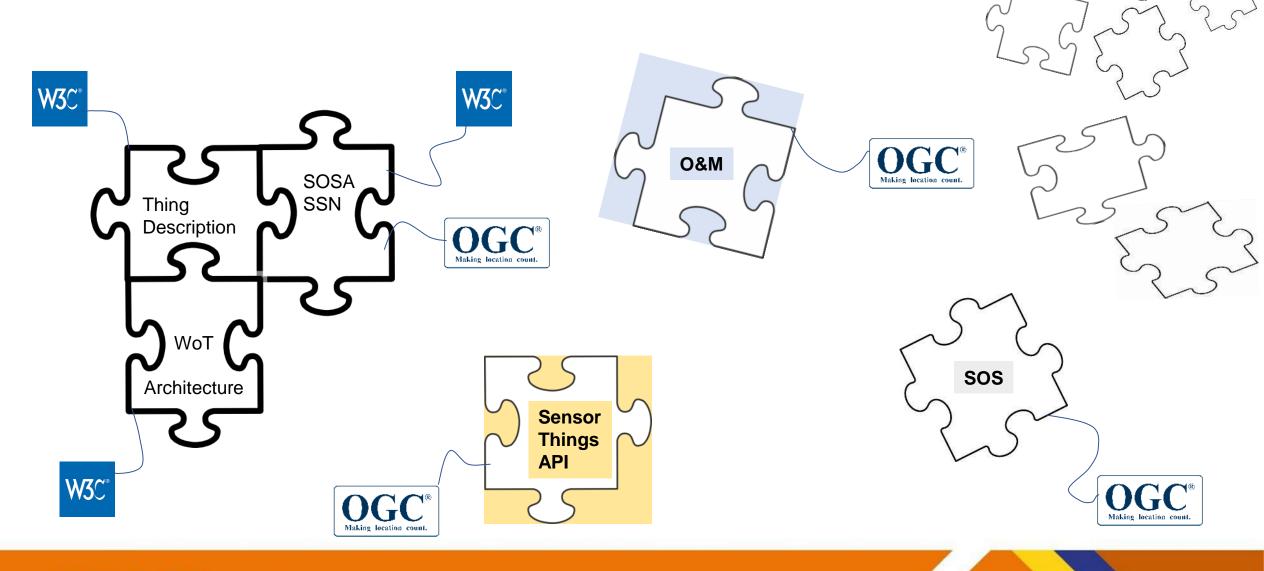








Sensor Standards On The Rise

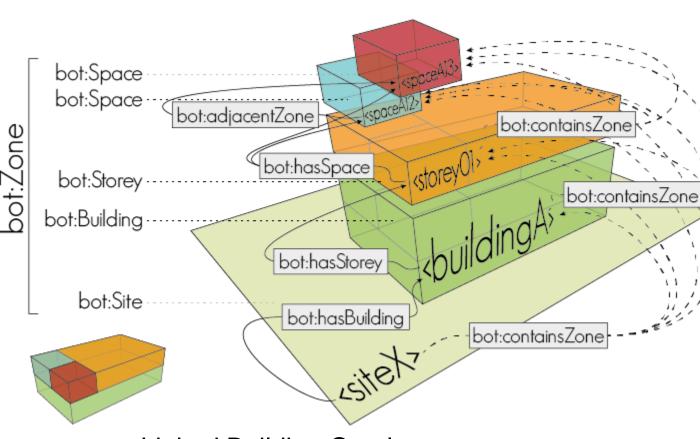




"What? Data Models Are Still Important?"







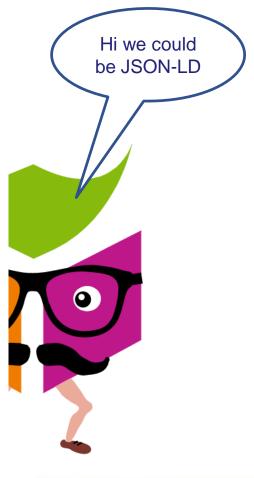
Linked Building Ontology

Geo, JSON & Linked Data Finally Meet



Recursive Lists

```
"@vocab": "https://purl.org/geojson/vocab#",
 "type": "@type",
 "bbox": {"@container": "@list"},
                                                   JSON-LD 1.1
  "coordinates": {"@container": "@list"}
"type": "Feature",
"bbox": [-10.0, -10.0, 10.0, 10.0].
"geometry": {
  "type": "Polygon",
                                "coordinates": [
         [-10.0, -10.0],
                                  a geojson:Feature;
         [10.0, -10.0],
         [10.0, 10.0],
                                  geojson:bbox (-1.0E1 -1.0E1 1.0E1 1.0E1);
         [-10.0, -10.0]
                                  geojson:geometry [
                                    a geojson:Polygon;
                                    geojson:coordinates (
11 ...
                                       (-1.0E1 - 1.0E1)
                                       (1.0E1 - 1.0E1)
                                       (1.0E1 1.0E1)
                                       (-1.0E1 - 1.0E1)
```

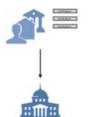




More Web!

THE STRUCTURE OF IDENTITY SYSTEMS

(1) The user presents a set of attributes (2) The third party verifies the attributes (3) The user then uses the credential

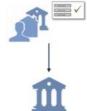


WORLD ECONOMIC FORUM | 2016

and attaches its attestation to the attributes, becoming an identity



from the identity provider in transactions with RPs

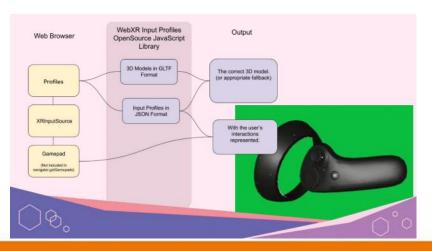


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Immersive

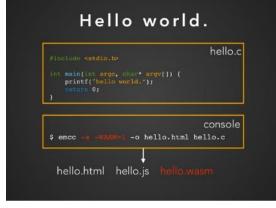
Assembly

VR & AR











The story continues...

