Data use and reuse: Unlocking the Potential of Frictionless Data for Wikidata

Wikimania Singapore
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The Open Knowledge Foundation (OKFN) has been setting global open standards for the past 20 years, contributing technology and community expertise to a wide range of initiatives in the fields of open data, open content, open government, etc.

We maintain a network of people in more than 40 countries to promote open knowledge as a design principle. We are widely known for being leaders in building a robust and sustainable open infrastructure for publishing, sharing, and working with data.
What we do

We provide services, tools, and training that enable governments, organisations, and communities to adopt open protocols as a design principle.
01. Software & Standards

Open Definition
DEFINING OPEN IN OPEN DATA, OPEN CONTENT AND OPEN KNOWLEDGE

OPEN DATA HANDBOOK
Guides, case studies and resources for government & civil society on the “what, why & how” of open data.

Open Data Commons
LEGAL TOOLS FOR OPEN DATA

Open Knowledge
FOR A FAIR, SUSTAINABLE AND OPEN FUTURE
02. Advocacy

- Global Open Data Index
- Open Spending
- Open Budget Data
- OKFestival
- The Justice Programme
- Open Knowledge

Working to Ensure Public Impact Algorithms Do No Harm

For a fair, sustainable and open future
03. Comunidad
Introduction

frictionlessdata.io
@frictionlessd8a

- Specifications for data & metadata interoperability
- A collection of open source software libraries
- A range of best practices for data management
- Platform agnostic interoperability
• **Packaging Data**
  Package data with its metadata and schema for increased usability and clarity

• **Transforming Data**
  Data often requires some transformations, like cleaning or conversions from one format to another

• **Pushing and Storing Data**
  Frictionless has several plugins for accessing and storing data, for example in a SQL database
Data Package

- Precise data archiving format
- Easily shareable
- Data reproducibility
- Findable, Accessible, Interoperable, Reusable (FAIR)
- Data integrity validation
Frictionless Standards
Lightweight yet comprehensive data standards as Data Package and Table Schema.

Frictionless Framework
Python framework to describe, extract, validate, and transform tabular data.

Frictionless Application
Data management application for Browser and Desktop for working with tabular data.
**Frictionless Repository**
Github Action allowing you to validate tabular data on every commit to your repository.

**Livemark**
Static site generator that extends Markdown with charts, tables, scripts, and more.
Use Cases

Pipelines for accelerating ocean scientific discovery with BCO-DMO

Learn more
Use Cases

Deploy Solutions uses Frictionless Data for climate change data validation

Learn more
Use Cases

Extended Frictionless standards for camera trapping data exchange format

→ Learn more
A Potent Combo

FRICIONLESS DATA

+ WIKIDATA

= A Potent Combo
A quick user research

https://etherpad.wikimedia.org/p/frictionless-wikidata
Thank you!

Ways to join the conversation:

- **Website** – frictionlessdata.io
- **Slack** – frictionlessdata.slack.com
- **Twitter** – @frictionlessd8a
- **Newsletter** – okfn.org/newsletter

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