

The background features a complex, high-contrast black and white pattern. On the left side, there are vertical bands of repeating geometric and floral motifs. The right side is dominated by large, bold, black diagonal strokes that create a sense of movement and depth. The overall aesthetic is modern and graphic.

*open source  
and  
open data*



**software**

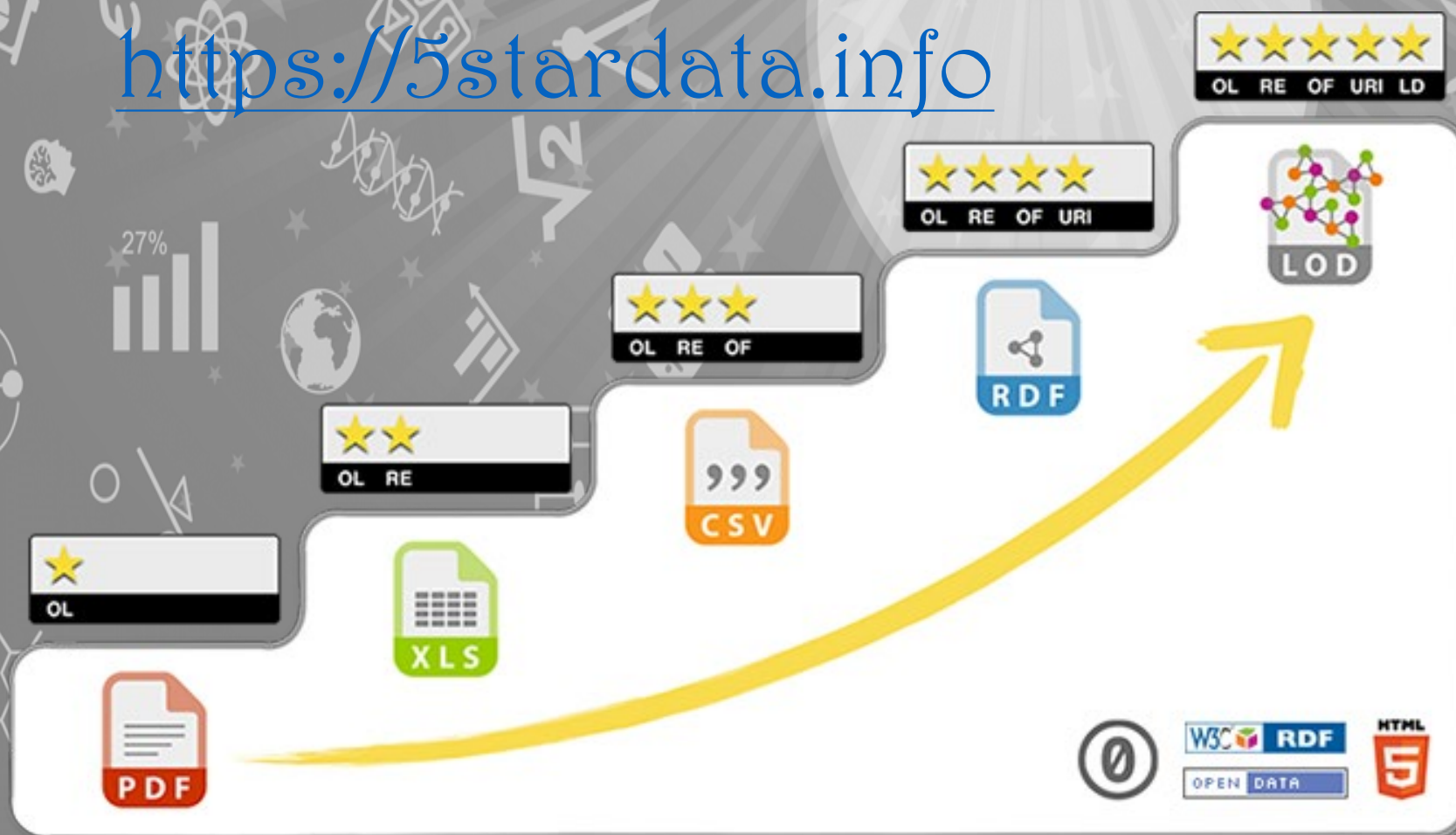
**file formats**



# Tip

## 5\* Deployment Scheme for Open Data

<https://5stardata.info>



# 10 COMMON MYTHS ABOUT OPEN SOURCE



## 1 OPEN SOURCE IS LESS SECURE

The wide accessibility of code can actually facilitate early detection of vulnerabilities and lead to a more secure product. The more sets of eyes you have on your code the more likely you are to find issues.



## 2 OPEN SOURCE IS FREE

While open source provides organisations with lots of choice and freedom, that doesn't mean it is totally free. It relates to breaking 'free' from old constraints to deploy at your own pace to mitigate any risks and costs that are commonly associated with vendor lock-in.



## 3 OPEN SOURCE ISN'T LICENSED

False. Open source licenses are essentially terms of use and not items to be purchased, as can be the case for proprietary software.



## 4 BIG SOFTWARE COMPANIES DON'T USE OPEN SOURCE

Among the big names using open source software are Amazon, Google, Facebook, Twitter, Microsoft, IBM, Reddit, Wikipedia, McDonald's, London Stock Exchange, New York Stock Exchange, Audi, BMW, Peugeot and DreamWorks. 9 out of 10 Wall Street banks use it.



5

## OPEN SOURCE COMES WITHOUT SUPPORT

Just because open source software doesn't come with a 24/7 help desk, doesn't mean you are on your own. In fact, many open source software products have at least one (and sometimes several) companies selling support services.



6

## OPEN SOURCE ISN'T RELIABLE

Because of its crowd-sourced development model, open source code often has fewer bugs and becomes more flexible and reliable with each passing week.



7

## OPEN SOURCE IS TOO TECHNICAL

In its early days, open source software had an unfounded reputation for being less than user friendly. Those days are long gone! From web browsers and icons to digital photography, there's an easy-to-use, open source solution for just about everything.

8

## OPEN SOURCE COMPANIES DON'T OWN THEIR INTELLECTUAL PROPERTY

This is a misconception. The truth is that open source software is subject to the same copyright laws as closed-source software, but open source software suppliers choose to share their IP with others.



9

## OPEN SOURCE IS JUST A FAD

If it's a fad it's pretty durable, since it's been around for over 20 years and heavily commercialised for at least the last 10. A variety of studies have shown exponential growth patterns in the open source sector across a wide range of measures.



10

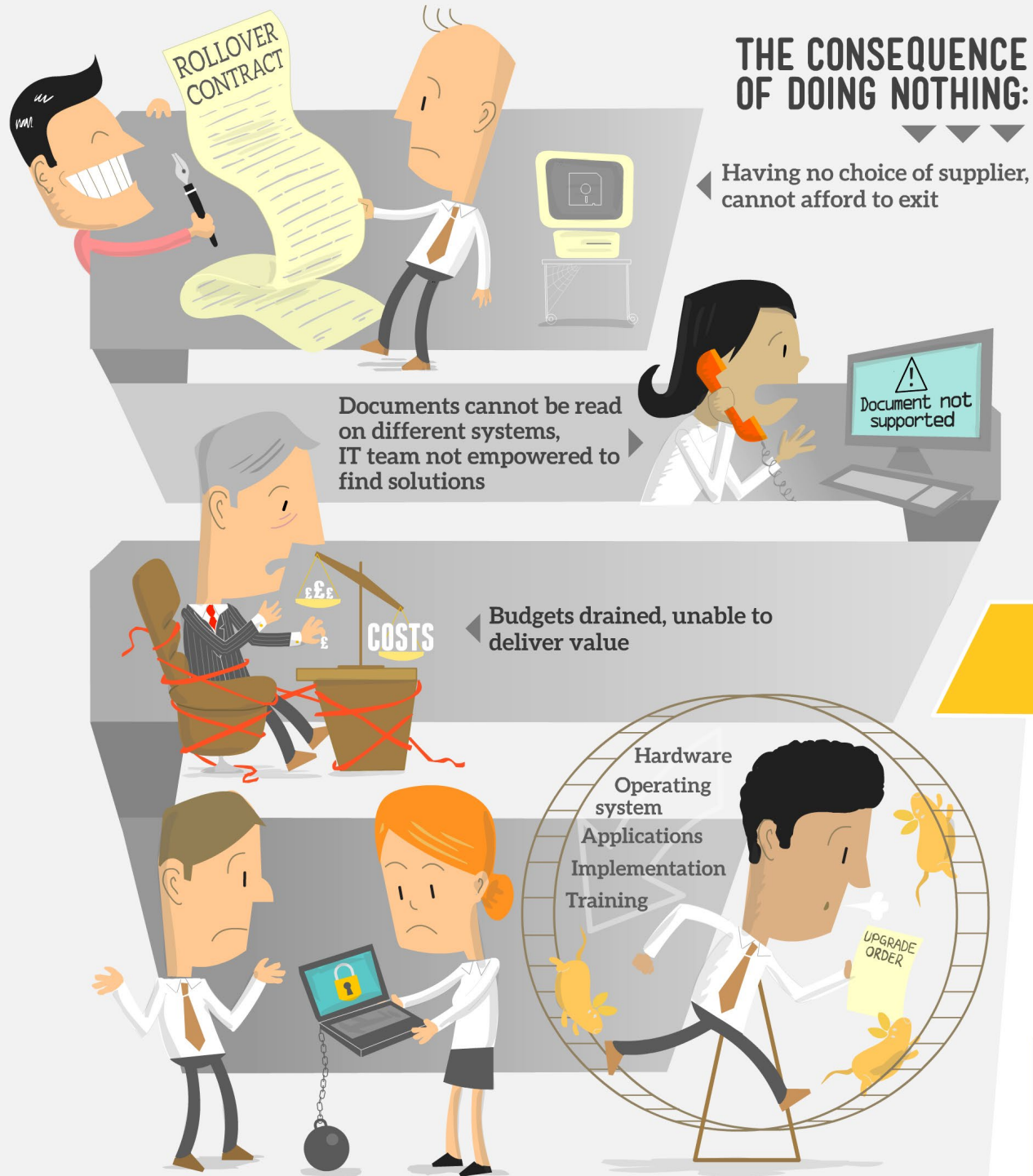
## OPEN SOURCE IS INCOMPATIBLE WITH PROPRIETARY SOFTWARE

Open source software products interoperate with other software in the same way that proprietary software does. Industry standards facilitate this, and typically open source software implements open industry standards as well as (or in some cases better than) proprietary alternatives.



CHOOSE OPEN  
DOCUMENT  
FORMAT

# A LITTLE CHANGE → A BIG SAVING



## THE CONSEQUENCE OF DOING NOTHING:

Having no choice of supplier,  
cannot afford to exit

Documents cannot be read  
on different systems,  
IT team not empowered to  
find solutions

Budgets drained, unable to  
deliver value

Monopoly lock-in &  
stifled innovation

You may find yourself forced into a technology  
refresh to access the new applications needed  
to open your documents.

## IT'S UP TO YOU TO MAKE THE CHANGE SWITCHING IS SIMPLE, HERE'S WHAT YOU NEED TO DO:

Make ODF your preferred option and your default choice. Using ODF creates a level playing field, therefore enables a choice for the user and supplier. It will not force upgrades of software, hardware or platform.

ODF opens up your documents to the future.



The most popular office applications including word processing software, spreadsheet and presentation applications support Open Document Format. If yours does not, switch to one that does.

## HOW?

Just save your work in an  
**Open Document Format**  
The most commonly used are:

Text documents: **.odt**  
Spreadsheets: **.ods**  
Presentations: **.odp**

It's as easy as that to do your bit!



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& Stuart J Mackintosh, Illustrated by Dave Gray

# OPEN SOURCE OWNS THE WEB

## Operating Systems

60%  
LINUX



27%  
WINDOWS

### SECURITY

- Secure and protected by design
- Immune against viruses and other malwares
- Security flaws are resolved fast and continuously



### EXTENSIBILITY

- Different applications are available free-of-charge
- Linux can be easily extended by open source contributions

### STABILITY

- Availability; Linux's structure decreases the number and frequency of system halts and terminations

### UPDATABILITY

- Linux is in a constant state of development and improvement by the community and companies like Red Hat, IBM, Novell...

## Web Servers

OPEN SOURCE

60%  
APACHE



8%  
NGINX +  
LIGHTTPD

20%  
MICROSOFT IIS

CLOSED SOURCE

### STANDARDS

- Implements the latest protocols, including HTTP/1.1 (RFC2616)
- Highly configurable and extensible with third-party modules



- USAGE**
- Runs on over more than 120 million Internet servers

### THE FOUNDATION

- Apache web server is one of the projects of the Apache Software Foundation. Other projects include Hadoop, Apache Solr, SVN and the Cassandra database.

## Server-side Languages

75%  
PHP



21%  
ASP.NET



### USAGE

- Installed on more than 20 million websites and 1 million web servers.
- Systems written in PHP include MediaWiki, Wordpress, Drupal and Moodle.
- Websites using PHP include Wikipedia and Facebook

### HISTORY

- PHP was originally created by Rasmus Lerdorf in 1995
- PHP is a recursive abbreviation of "Hypertext Preprocessor"

## Content Management Systems

55%  
WORDPRESS



6%  
DRUPAL

11%  
JOOMLA



### WORDPRESS

- Used by The New York Times, TechCrunch, Mashable and others
- Wordpress is the most popular blogging platform in the world



### DRUPAL

- With +7000 modules
- Originally written by Dries Buytaert
- Used to run the websites of Ubuntu, the White House and others
- Annual increase of 125% in its usage,
- It runs 1.5% of all the sites on the Internet!



### JOOMLA

- Downloaded more than 2.5 million times
- Coded in Object Oriented PHP with more than 6000 plugins
- Linux.com is built on it!



Jordan Open Source Association  
<http://jordanopensource.org>

Data collected by Mohammad Khamash. Designed by Issa Mahasneh.  
DATA: Wikipedia, The Apache Software Foundation, NetCraft, Wordpress.org, W3Techs, Drupal.org, Linux.com

# Open formats, what for?

## ▶ So that users might read my documents unhindered

Users exchanging reports.



CLOSED FORMAT, IDENTICAL SOFTWARE

Alice uses the software program "Carcera<sup>(1)</sup>." She records her report in a closed format (one that does not permit interoperability), then sends it to Bob, who has the same software program. He can read the document, modify it and send it back to Alice.



PROGRAMS WITH CLOSED FORMATS, DIFFERENT SOFTWARE

The following day, Alice sends her report to Albert. He doesn't have the same software program, which refuses to open the document. Albert has no other choice than to acquire the Carcera software used by Alice, with the hope it is compatible with its computer.

So that your documents might be read more easily by other people, without you having to worry about which software they use, choose open formats.

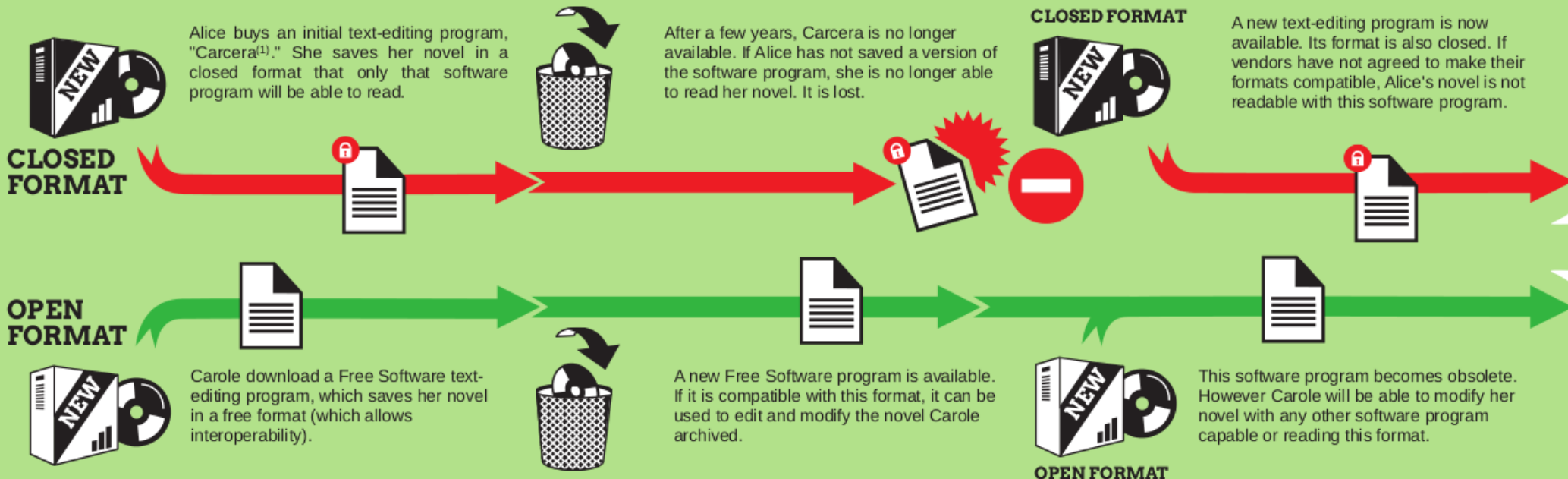


PROGRAMS WITH OPEN FORMATS, DIFFERENT SOFTWARE

Carole, another user, chooses to record her report in open format (allowing for interoperability) and sends it to David. David can read the document, modify and record it, either by using the same open format software or by using another interoperable software.

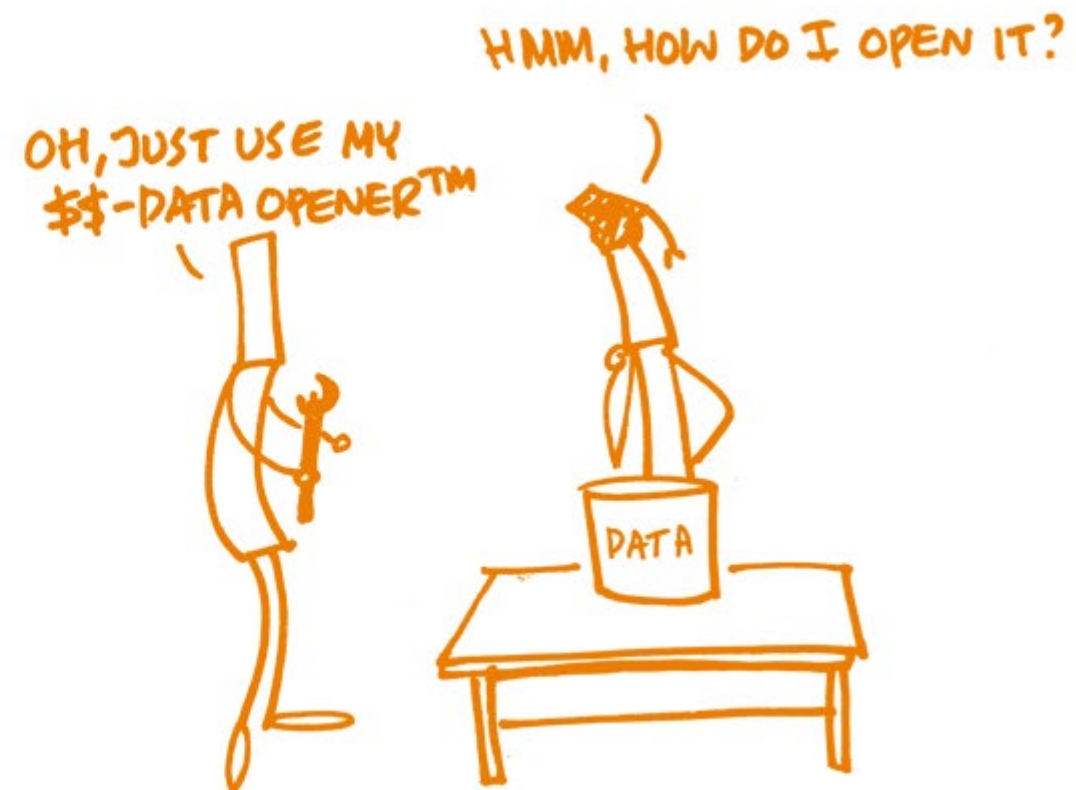
## ▶ To ensure the longevity of my documents

Alice and Carole use text editors to write, save, and preserve a novel.



The availability and longevity of your documents, saved in a closed format, depends on the decisions of software vendors.

In your interest, choose software programs that save your documents in open formats. They are not dependent on any particular software program.



# List of useful open source softwares



<https://enacit.epfl.ch/logiciel-libre/>