Open Source It Right

With REUSE and SPDX

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ONE DOES NOT SIMPLY

PUT IT ON GITHUB
Publishing check-list

- Copyright
- License
3D Artists

Sorry, I got inspiration from your model and made mine

Nooooo, how could you do that? Now I'm gonna copyright strike you!

Programmers

Hey man, I copied your code

It wasn't mine
Copyright

- Who owns the IP?
  - (Spoiler for CERN MPEs: it’s CERN)
License

• Original work:
  - License of choice (GPLv3/Apache2/ecosystem-specific...)

• Combined/derivative work:
  - Who owns the IP? (see before)
  - Do you have a license to redistribute?
  - Check license compatibility.
Publishing check-list

- ✅ Copyright
- ✅ Licenses
CERN guidelines

- Policy on Software Dissemination (2017)

```
# Copyright (C) 2023, CERN
#
# This software is distributed under the terms of the GNU General Public
# Licence version 3 (GPL Version 3), copied verbatim in the file "COPYING".
#
# In applying this license, CERN does not waive the privileges and immunities
# granted to it by virtue of its status as Intergovernmental Organization
# or submit itself to any jurisdiction.
```
We make licensing easy for humans and machines alike. We solve a fundamental issue that Free Software licensing has at the very source: what license is a file licensed under, and who owns the copyright? **Adopting our recommendations is as easy as one-two-three!**

1. Choose and provide licenses

2. Add copyright and licensing information to each file

3. Confirm REUSE compliance
REUSE: provide licenses

<table>
<thead>
<tr>
<th>Name</th>
<th>Last commit</th>
<th>Last update</th>
</tr>
</thead>
<tbody>
<tr>
<td>..</td>
<td></td>
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</tr>
<tr>
<td>CC-BY-SA-4.0.txt</td>
<td>update LICENSES</td>
<td>2 years ago</td>
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<tr>
<td>CC0-1.0.txt</td>
<td>update LICENSES</td>
<td>2 years ago</td>
</tr>
<tr>
<td>CERN-OHL-W-2.0.txt</td>
<td>update LICENSES</td>
<td>2 years ago</td>
</tr>
<tr>
<td>GPL-2.0-or-later.txt</td>
<td>add SPDX tag ad create LICENSES directory</td>
<td>4 years ago</td>
</tr>
<tr>
<td>GPL-3.0-or-later.txt</td>
<td>add SPDX tag ad create LICENSES directory</td>
<td>4 years ago</td>
</tr>
</tbody>
</table>
REUSE: add © and license

In each file:

```bash
$ head pytest/regressions/test_reprogramming.py
  ""
SPDX-License-Identifier: GPL-3.0-or-later
SPDX-FileCopyrightText: 2022 CERN
""
import json
```

SPDX: Software Package Data Exchange
$ pipx run reuse lint
# SUMMARY

* Bad licenses:
* Deprecated licenses:
* Licenses without file extension:
* Missing licenses:
* Unused licenses:
* Used licenses: CC-BY-SA-4.0, CC0-1.0, CERN-OHL-W-2.0+, GPL-2.0-or-later, GPL-
* Read errors: 0
* Files with copyright information: 182 / 182
* Files with license information: 182 / 182

Congratulations! Your project is compliant with version 3.0 of the REUSE Specifi
A nice example

https://gitlab.cern.ch/allpix-squared/allpix-squared
Try it out!

- https://reuse.software/tutorial/
- Discuss on it-dep/FOSS at CERN Mattermost
- https://indico.cern.ch/e/opensource-2023