

VIRTUAL
SAS® GLOBAL FORUM 2021



#SASGF

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My first SAS® Package

a how to

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A mathematician working and "playing" with data. Seasoned SAS user with experience in: education, telecommunication, clinical trials, and banking. Author and developer of the *SAS Packages Framework*. As "active-learner" and "hobbyist-teacher" leads SAS classes and courses at the [Faculty of Mathematics and Information Science](#) at Warsaw University of Technology. During free time coordinates meetups of *Polish SAS Users Group* ([#PolSUG](#)) and holds second and a half dan in *sasensei* (www.sasensei.com). To turn his internal problem solver mode on just say: "you probably can't do something like this in SAS..."



www.polsug.com
#PolSUG

- Comprehensive T_EX Archive Network
<https://ctan.org/pkg/>
- Comprehensive R Archive Network
<https://cran.r-project.org>
- Python Package Index
<https://pypi.org/>
- Why not in SAS?



SAS package¹

A **SAS package** is an automatically generated, single, stand alone zip file containing organised and ordered code structures, created by the developer and extended with additional automatically generated "driving" files (i.e. description, metadata, load, unload, and help files).

The purpose of a package is to be a simple, and easy to access, code sharing medium, which allows: on the one hand, to separate the code complex dependencies created by the developer from the user experience with the final product and, on the other hand, reduce developers and users unnecessary frustration related to a remote deployment process.

SAS Packages Framework

SAS Packages Framework is a "pack" of macros, which allows to use and to develop SAS packages.

¹The idea presented here should not be confused with other occurrences of "package" concept which could be found in the SAS ecosystem, e.g. Proc DS2 packages, SAS/IML packages, SAS ODS packages, SAS Integration Technologies Publishing Framework packages, or a *.egp file.

„The wolf is sated and the sheep is whole”

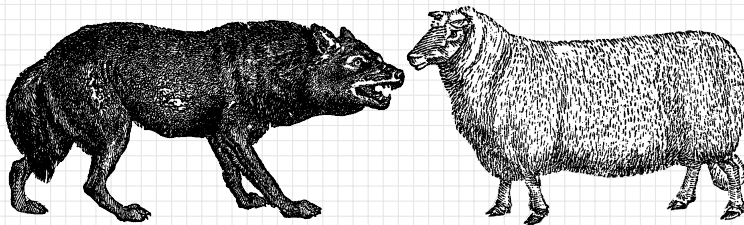
github.com/yabwon/SAS_PACKAGES



sas
packages

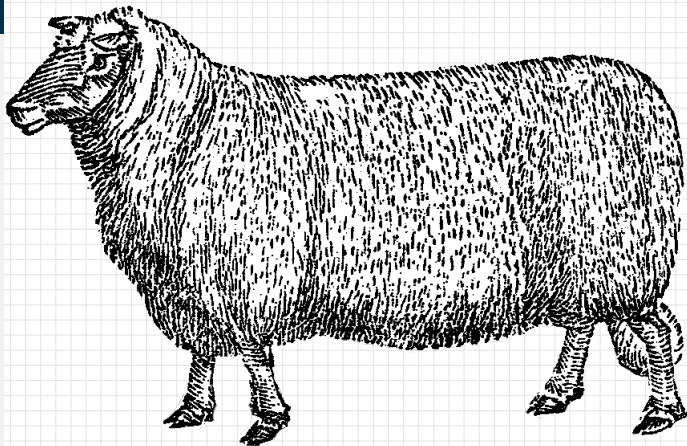
the way to share

The User & The Developer



The goal

To
show
you
how
to
build
your
first
SAS package
using
the **SAS Packages Framework**.



Files and folders

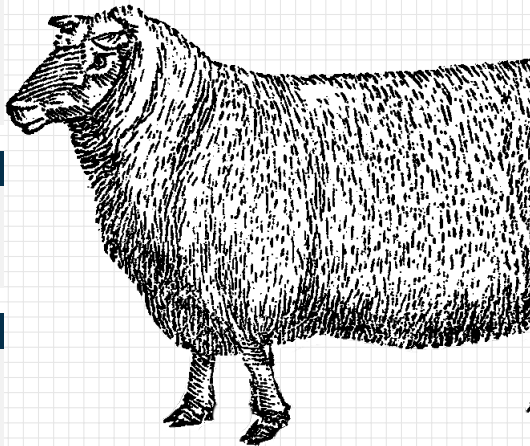
- Download SPFinit.sas* file, e.g. into ~/saspackages
- Create package folder, e.g. ~/saspackages/myPackage
- Prepare package files and the description file.

The Code

```
filename packages "~/saspackages";  
%include packages(SPFinit.sas);  
%generatePackage("~/saspackages/myPackage)
```

The Result

- Read the summary and the log
- Check tests results
- Share the package ;-)



dziękuję
thank you



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- Bartosz Jabłoński, "My First SAS Package - a How To",
to be published in SAS Global Forum 2021 Proceedings, 1079-2021
preprint available at:
https://github.com/yabwon/SAS_PACKAGES/blob/main/SPF/Documentation
- Bartosz Jabłoński, "SAS Packages: The Way to Share (a How To)",
SAS Global Forum 2020 Proceedings, 4725-2020
<https://www.sas.com/content/dam/SAS/support/en/sas-global-forum-proceedings/2020/4725-2020.pdf>
extended version available at:
https://github.com/yabwon/SAS_PACKAGES/blob/main/SPF/Documentation
- Art Carpenter, "Carpenter's Guide to Innovative SAS Techniques", SAS Press, 2012
- Hadley Wickham, "R Packages: Organize, Test, Document, and Share Your Code",
O'Reilly Media, 2015, <http://r-pkgs.had.co.nz/description.html>
- The wolf and sheep are from *ClipArt ETC* archive, <https://etc.usf.edu/clipart/>

I would like to acknowledge a few people for their contribution.

The people are:

Filip Kulon, and
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