PBI

HOW TO WORK WITH PISA IN R

WE WILL SEE

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Introduction to PISA

Here there should be an introduction to the PISA data. Who is doing this study and why.

Few words about data structure and availability [1].

[1] OECD. Pisa website. http://www.oecd.org/pisa/

Get your data

Here there should be an information how to download data from different editions.

Why and when to use PISAtools package.

Few words about filters for particular country or set of countries.

Data manipulation

Here there should be an information how to reshape data.

Subselect variables, combine student and school datasets and similar things.

Statistical procedures

Here there should be an information how to do some simple statistics with the data.

Like rankings, weighted averages, weighted regression.

Maybe mixed effect model or generalized mixed effect model.

Data Visualisation

Some examples how to create charts with the use of this data.

Introduction to R

Very short introduction to R. With references to other materials.

Bibliografia

OECD. Pisa website. http://www.oecd.org/pisa/.