

# Literate time series modelling

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`tsFormula` is a S3 class which holds references to one or several input time series and a formula describing how to combine the input. By combining several `tsFormula` objects hierarchically, it is possible to build so-called value driver tree models.

The idea for this class originates from the daily work with spreadsheet software, where it is common to define data by formulas, and from using the web service `timetric.com`.

`tsFormula` objects can be used in (at least) two ways:

- to compute the time series values
- to document the time series as a tree

This two-fold use of the code is known as literate programming.

We introduce this class by an example model from the energy efficiency field and demonstrate visualizations created with this class. Furthermore, we show how R integrates in our IT structure and interacts with it (Word, Excel, Powerpoint, Mathematica).

## References

Inkling Software (2010). Timetric.com,  
<http://timetric.com/help/httpapi-models/>.