



## **Is Holiday**

Returns if day is a holiday or a bizday



Product: IBM® SPSS® Modeler

Extension type: Process

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## Description

This node enables you to enrich your date data with holiday calendars from different countries.

## Requirements

- SPSS Modeler v16.0
- SPSS Modeler 'R essentials' plugin
- R v2.15.2

## Installation

Close SPSS Modeler. Copy and paste the *.cfe* file in the CDB folder, located by default on Windows in “*C:\ProgramData\IBM\SPSS\Modeler\16\CDB*”.

Restart SPSS Modeler: the node will now appear in the output panel.

## R Packages used

- Based on the package 'timeDate' created by Diethelm Wuertz, Yohan Chalabi and Martin Maechler with contributions from Joe W. Byers, and others available on

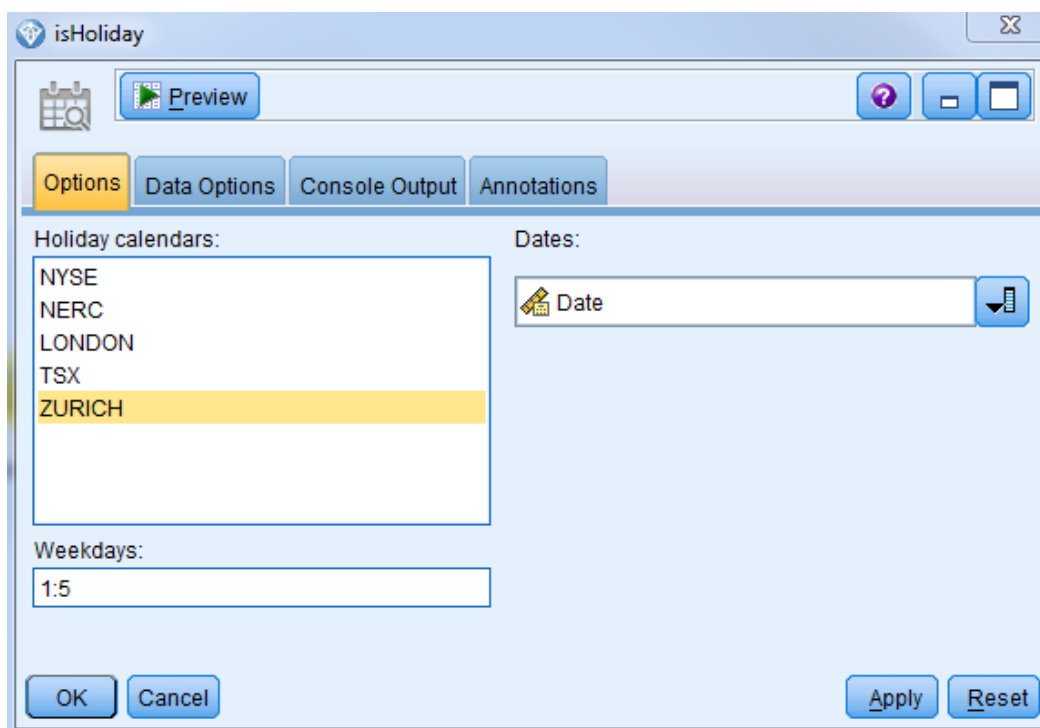
<http://cran.r-project.org/web/packages/timeDate/index.html>



## Result example

- **Input fields:** Dates Examples: '1984-12-30' (ISO 8601) or 42325 (numeric, with origin in '1970-01-01')
- **Output field:** String flag: "bizday" or "holiday".
- **Limitation:** Not all calendars are yet included and the date needs to be in the format specified in the input.

Double click on the 'isHoliday' node.



Now select the field containing the date data.

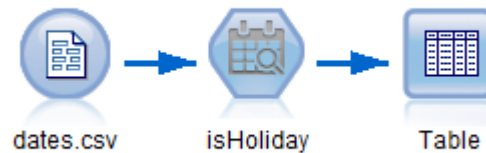
Fill the fields:

- Holiday calendars
- 'Weekdays' to customize business days of the week.

From Monday to Friday is 1:5  
or c(7,1,2,3,4) for Sunday to Thursday.



Add an output node after the 'isHoliday' node in order to visualize if the date is or not a holiday.



You can try it yourself right now with the stream 'isHolidayExemple.str' and the data dates.csv

## Important links

### Learn

- Learn more about [SPSS software](#).
- Visit [developerWorks Business analytics](#) for more technical analytics resources for developers.
- [The Comprehensive R Archive Network](#) is the main site for the R project and each R package. The help pages and manuals that are associated with `optimx`, `nlmrt`, and `Rcgmin` are detailed. Numerous references are provided.
- Read "[Do I need to learn R?](#)" (Catherine Dalzell, developerWorks, September 2013) to learn why R is a valuable tool for data analytics that was expressly designed to reflect the way that statisticians think and work.
- "[Calling R from SPSS](#)" describes how to use R code inside IBM SPSS Modeler 16.
- Read "[Using Google maps API](#)" to discover how to use Google Maps API with R.
- Read "[Create new nodes for IBM SPSS Modeler 16 using R](#)" to learn how to create new extensions easily.

### Get products and technologies

- Download the [R plug-in for SPSS](#) plugin.
- Download the [R 2.15.2 for Windows](#) package.

### Discuss

- Visit the [IBM SPSS DevCentral developerWorks community](#) to share tips and experiences with other IBM SPSS developers.
- Follow [developerWorks on Twitter](#) to be among the first to hear about new resources.