Package ‘bayesDem’

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Type Package
Title Graphical User Interface for bayesTFR, bayesLife and bayesPop
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Author Hana Sevcikova <hanas@uw.edu>
Maintainer Hana Sevcikova <hanas@uw.edu>
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Imports RGtk2, wpp2012
Description Provides Graphical user interface for the packages bayesTFR, bayesLife and bayesPop
License GPL (>= 2)
URL http://bayespop.csss.washington.edu
NeedsCompilation no
Repository CRAN
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**Description**

Provides Graphical user interface for the packages **bayesTFR**, **bayesLife** and **bayesPop**.

**Details**
The main function of the package is `bayesDem` which launches the GUI. It allows to run MCMCs and make probabilistic projections of total fertility rate (TFR) and life expectancy (e0) for all countries of the world, using Bayesian hierarchical models and the United Nations demographic time series, as well as probabilistic projections of total population.

The GUI has three main tabs, one for estimating and predicting TFR, one for estimating and predicting e0, and one for projecting total population.

The first two sections are organized into four tabs corresponding to the four main tasks: Running MCMCs, Continuing MCMCs, Making predictions, and Exploring results. Each of those tabs is again separated into tabs corresponding to usually one `bayesTFR` or `bayesLife` function. Each tab contains a Help button that shows the help file of the corresponding function, a 'Generate Script' button that provides user with the corresponding `bayesTFR/bayesLife` command with argument values filled in from the GUI, and a button processing the function.

The third main section (for projecting total population) is separated into two tabs: One for generating predictions using given inputs, the other for exploring results. The user can generate population trajectories for given country, age and sex. In addition, probabilistic population pyramids can be also created from the GUI.

**Author(s)**
Hana Sevcikova <hanas@u.washington.edu>
Maintainer: Hana Sevcikova <hanas@uw.edu>

**References**


**See Also**
bayesTFR, bayesLife, bayesPop

**Examples**

```r
## Not run:
bayesDem.go()

## End(Not run)
```
Start Graphical User Interface for bayesTFR and bayesLife

Description

The function launches Graphical User Interface for the packages bayesTFR and bayesLife.

Usage

bayesDem.go(wpp.year.tfr = wpp.year.default,
             wpp.year.e0 = wpp.year.tfr, wpp.year.pop = wpp.year.tfr)

Arguments

- **wpp.year.tfr** WPP year used for simulating TFR. Default is 2012. Packages called wpp.x where x is the wpp.year are used. Currently, 2012, 2010 and 2008 are available.
- **wpp.year.e0** WPP year used for simulating life expectancy.
- **wpp.year.pop** WPP year used for predicting population.

Note

For more information on World Population Prospects (WPP) data, see http://esa.un.org/unpd/wpp.

Author(s)

Hana Sevcikova
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